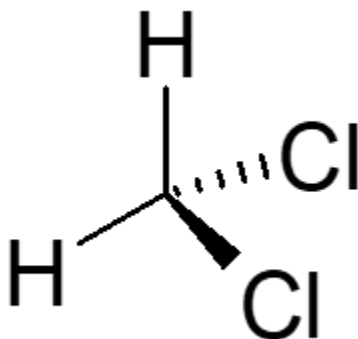


## Final Risk Evaluation for Methylene Chloride

Supplemental File:

**Supplemental Information on Surface Water Exposure Assessment**

CASRN: 75-09-2



*June 2020*

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**1. OES: MANUFACTURING**

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:25

Number of Release Sites: 1.

Release Activity: Covestro 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.36 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	3.89E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:25                      RELEASE ACTIVITY: Covestro 350 dy  
 FACILITY NAME: BAYER CORPORATION-BAYTOWN  
 FACILITY LOCATION: BAYTOWN TX 77520  
 RECEIVING WATER NAME: CEDAR BAYOU  
 REACH NUMBER: 12040203002          FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: TX0002798            EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	350.	0.00389	3.89E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	98.72	15.44	9.06	9.06	NA
CONCENTRATION (µg/L)	3.94E-02	0.25	0.43	0.43	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	2.08E-07 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.60E-05 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	9.54E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT  
 Chemical ID: DCM MFG 00

**SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES**

SCENARIO NUMBER: 25                                  RELEASE ACTIVITY: Covestro 350 dy  
 FACILITY NAME: BAYER CORPORATION-BAYTOWN  
 FACILITY LOCATION: BAYTOWN TX 77520  
 RECEIVING STREAM NAME: CEDAR BAYOU  
 REACH NUMBER: 12040203002                  FACILITY ON REACH: Yes                  DISCHARGE TYPE: Direct  
 NPDES PERMIT NUMBER: TX0002798              GAGING STATION ID: 08067500  
 GAGING STATION PERIOD OF RECORD: 10/01/71 - 07/24/90      GAGING STATION NUMBER OF OBSERVATIONS: 6862.00                  NUMBER OF STATIONS ON REACH: 1  
 50 %ile FLOW (MLD): 24.46                          10 %ile FLOW (MLD): 2.37                  EFFLUENT FLOW (MLD):9.06

**RESULTS**

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	1	4	350.00	3.89E-03	0.00
151.00	1	4	350.00	3.89E-03	0.00
1800.00	1	4	350.00	3.89E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:26

Number of Release Sites: 1.

Release Activity: Covestro 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.36 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	6.80E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:26                      RELEASE ACTIVITY: Covestro 20 dy  
 FACILITY NAME: BAYER CORPORATION-BAYTOWN  
 FACILITY LOCATION: BAYTOWN TX 77520  
 RECEIVING WATER NAME: CEDAR BAYOU  
 REACH NUMBER: 12040203002      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: TX0002798              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.068	6.80E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	98.72	15.44	9.06	9.06	NA
CONCENTRATION (µg/L)	0.69	4.40	7.51	7.51	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	2.08E-07 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.60E-05 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.67E-04 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 26                                  RELEASE ACTIVITY: Covestro 20 dy  
 FACILITY NAME: BAYER CORPORATION-BAYTOWN  
 FACILITY LOCATION: BAYTOWN TX 77520  
 RECEIVING STREAM NAME: CEDAR BAYOU  
 REACH NUMBER: 12040203002                  FACILITY ON REACH: Yes                  DISCHARGE TYPE: Direct  
 NPDES PERMIT NUMBER: TX0002798          GAGING STATION ID: 08067500  
 GAGING STATION PERIOD OF RECORD: 10/01/71 - 07/24/90          GAGING STATION NUMBER OF OBSERVATIONS: 6862.00                  NUMBER OF STATIONS ON REACH: 1  
 50 %ile FLOW (MLD): 24.46                  10 %ile FLOW (MLD): 2.37                  EFFLUENT FLOW (MLD):9.06

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	1	20.00	6.80E-02	0.00
151.00	0	1	20.00	6.80E-02	0.00
1800.00	0	0	20.00	6.80E-02	0.00



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:27

Number of Release Sites: 1.

Release Activity: Emerald 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.45 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	1.30E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 27	RELEASE ACTIVITY: Emerald 350 dy	
FACILITY NAME: GOODRICH B.F.-HENRY		
FACILITY LOCATION: HENRY IL 61537		
RECEIVING WATER NAME: SENACHWINE L		
REACH NUMBER: 07130001022	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: IL0001392	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	350.	2.73	0.0013	1.30E-03	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	0.48
CHRONIC SCENARIO	1.00	0.48

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:28

Number of Release Sites: 1.

Release Activity: Emerald 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.45 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	2.27E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 28	RELEASE ACTIVITY: Emerald 20 dy	
FACILITY NAME: GOODRICH B.F.-HENRY		
FACILITY LOCATION: HENRY IL 61537		
RECEIVING WATER NAME: SENACHWINE L		
REACH NUMBER: 07130001022	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: IL0001392	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	20.	2.73	0.0227	2.27E-02	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	8.32
CHRONIC SCENARIO	1.00	8.32

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#: 1

Number of Release Sites: 1.

Release Activity: FisherFairLawn 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.27 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	6.48E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM MFG 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 1	RELEASE ACTIVITY: FisherFairLawn 350 dy	
FACILITY NAME: PASSAIC VALLEY SEWERAGE COMM		
FACILITY LOCATION: NEWARK NJ 07105		
RECEIVING WATER NAME: UPPER NEW YORK BAY		
REACH NUMBER: 02030104001	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: NJ0021016	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
54.	350.	843.37	0.00648	2.98E-03	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	8.00	4.42E-04
CHRONIC SCENARIO	22.90	1.54E-04

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 54

Assessor:

ENVIRONMENTAL RELEASES
------------------------

Scenario#:2

Number of Release Sites: 1.

Release Activity: FisherBridgewater 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.27 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	6.48E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:2                      RELEASE ACTIVITY: FisherBridgewater 350 dy  
 FACILITY NAME: SOMERSET RARITAN VALLEY SA  
 FACILITY LOCATION: BRIDGEWATER NJ 08807  
 RECEIVING WATER NAME: MILLSTONE R  
 REACH NUMBER: 02030105026      FACILITY ON REACH: No      DISCHARGE TYPE: Direct  
 NPDES PERMIT #: NJ0024864      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.	350.	0.00648	2.98E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	243.24	69.26	42.84	39.88	NA
CONCENTRATION (µg/L)	1.23E-02	4.30E-02	6.96E-02	7.47E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	6.46E-08 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	4.97E-06 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.63E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 2                                      RELEASE ACTIVITY: FisherBridgewater 350 dy

FACILITY NAME: SOMERSET RARITAN VALLEY SA

FACILITY LOCATION: BRIDGEWATER NJ 08807

RECEIVING STREAM NAME: MILLSTONE R

REACH NUMBER: 02030105026                      FACILITY ON REACH: No                      DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NJ0024864              GAGING STATION ID: 01402000

GAGING STATION PERIOD OF RECORD: 01/01/66 - 12/16/90              GAGING STATION NUMBER OF OBSERVATIONS: 9117.00                      NUMBER OF STATIONS ON REACH: 2

50 %ile FLOW (MLD): 501.43                      10 %ile FLOW (MLD): 139.42                      EFFLUENT FLOW (MLD):39.88

RESULTS					
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	350.00	6.48E-03	54.00
151.00	0	0	350.00	6.48E-03	54.00
1800.00	0	0	350.00	6.48E-03	54.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#: 1

Number of Release Sites: 1.

Release Activity: Olin 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	58.10 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	0.17 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:1                      RELEASE ACTIVITY: Olin 350 dy  
 FACILITY NAME: DOW CHEMICAL CO-FREEPORT  
 FACILITY LOCATION: FREEPORT TX 775413257  
 RECEIVING WATER NAME: BRAZOS R  
 REACH NUMBER: 12070104002      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: TX0006483      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.	350.	0.166	7.64E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	9652.16	3667.69	2608.81	2608.81	NA
CONCENTRATION (µg/L)	7.91E-03	2.08E-02	2.93E-02	2.93E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	4.17E-08 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	3.21E-06 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	7.89E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 1

RELEASE ACTIVITY: Olin 350 dy

FACILITY NAME: DOW CHEMICAL CO-FREEPORT

FACILITY LOCATION: FREEPORT TX 775413257

RECEIVING STREAM NAME: BRAZOS R

REACH NUMBER: 12070104002

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: TX0006483

GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A

GAGING STATION NUMBER OF OBSERVATIONS: N/A

NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 1.97E+04

7q10 FLOW (MLD): 2608.81

EFFLUENT FLOW (MLD):2608.81

RESULTS

COC (μg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	350.00	0.17	54.00
151.00	0	0	350.00	0.17	54.00
1800.00	0	0	350.00	0.17	54.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 54

Assessor:

ENVIRONMENTAL RELEASES
------------------------

Scenario#:4

Number of Release Sites: 1.

Release Activity: Regis 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.27 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	6.48E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM MFG 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 4	RELEASE ACTIVITY: Regis 350 dy	
FACILITY NAME: MWRDGC NORTHSIDE WRP		
FACILITY LOCATION: SKOKIE IL 60076		
RECEIVING WATER NAME: L MICHIGAN		
REACH NUMBER: 04040002001	FACILITY ON REACH: No	DISCHARGE TYPE: Direct
NPDES PERMIT #: IL0028088	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
54.	350.	1105.22	0.00648	2.98E-03	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	2.70E-03
CHRONIC SCENARIO	1.00	2.70E-03

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:5

Number of Release Sites: 1.

Release Activity: SigmaAldrich 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.27 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	6.48E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:5                      RELEASE ACTIVITY: SigmaAldrich 350 dy  
 FACILITY NAME: MSD BISSEL POINT WWTP  
 FACILITY LOCATION: ST. LOUIS MO 63147  
 RECEIVING WATER NAME: MISSISSIPPI R  
 REACH NUMBER: 07140101014      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: MO0025178      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.	350.	0.00648	2.98E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	2.78E+05	1.02E+05	8.15E+04	6.38E+04	NA
CONCENTRATION (µg/L)	1.07E-05	2.93E-05	3.66E-05	4.67E-05	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	5.65E-11 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	4.35E-09 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.11E-09 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT  
 Chemical ID: DCM MFG 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 5                                      RELEASE ACTIVITY: SigmaAldrich 350 dy

FACILITY NAME: MSD BISSEL POINT WWTP

FACILITY LOCATION: ST. LOUIS MO 63147

RECEIVING STREAM NAME: MISSISSIPPI R

REACH NUMBER: 07140101014                      FACILITY ON REACH: Yes                      DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: MO0025178              GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A                      GAGING STATION NUMBER OF OBSERVATIONS: N/A                      NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 4.33E+05                      7q10 FLOW (MLD): 8.15E+04                      EFFLUENT FLOW (MLD):465.36

RESULTS					
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	350.00	6.48E-03	54.00
151.00	0	0	350.00	6.48E-03	54.00
1800.00	0	0	350.00	6.48E-03	54.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:6

Number of Release Sites: 1.

Release Activity: Vanderbilt 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.45 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	1.30E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 54

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 6                                      Number of Sites: 1                                      RELEASE  
ACTIVITY: Vanderbilt 350 dy

SIC-CODE DESCRIPTION: Organic Chemicals Manufacture

SIC-CODE (S): 2865,2869                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.00	350.	0.0013	5.98E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	2825.61	935.49	634.16	514.20	2.12E-04	6.39E-04	9.43E-04	1.16E-03
ALL	10	50.57	9.38	5.41	4.53	1.18E-02	6.38E-02	0.11	0.13

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	1.12E-09	6.24E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	8.59E-08	4.80E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	2.42E-08	2.41E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 54

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 6

RELEASE ACTIVITY: Vanderbilt 350 dy

SIC CODE DESCRIPTION: Organic Chemicals Manufacture

ASSOCIATED SIC CODES: 2865,2869

SIC CODE RESULTS

COC ( $\mu\text{g/L}$ )	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	350.00	1.30E-03	54.00	High
151.00	0	0	350.00	1.30E-03	54.00	High
1800.00	0	0	350.00	1.30E-03	54.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#: 1

Number of Release Sites: 1.

Release Activity: EIDupont 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	75.95 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	0.22 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:1                      RELEASE ACTIVITY: EIDupont 350 dy  
 FACILITY NAME: E I DU PONT DE NEMOURS  
 FACILITY LOCATION: DEEPWATER NJ 08023  
 RECEIVING WATER NAME: DELAWARE R  
 REACH NUMBER: 02040204053      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: NJ0005100      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	350.	0.217	0.22	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	2.42E+04	9166.39	6733.64	5370.29	NA
CONCENTRATION (µg/L)	8.98E-03	2.37E-02	3.22E-02	4.04E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	4.74E-08 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	3.64E-06 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	8.97E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

**SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES**

SCENARIO NUMBER: 1	RELEASE ACTIVITY: EIDupont 350 dy	
FACILITY NAME: E I DU PONT DE NEMOURS		
FACILITY LOCATION: DEEPWATER NJ 08023		
RECEIVING STREAM NAME: DELAWARE R		
REACH NUMBER: 02040204053	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT NUMBER: NJ0005100	GAGING STATION ID: N/A	
GAGING STATION PERIOD OF RECORD: N/A	GAGING STATION NUMBER OF OBSERVATIONS: N/A	NUMBER OF STATIONS ON REACH: N/A
MEAN FLOW (MLD): 4.54E+04	7q10 FLOW (MLD): 6733.64	EFFLUENT FLOW (MLD):218.77

**RESULTS**

COC ( $\mu\text{g/L}$ )	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	350.00	0.22	0.00
151.00	0	0	350.00	0.22	0.00
1800.00	0	0	350.00	0.22	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:2

Number of Release Sites: 1.

Release Activity: EIDupont 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	76.00 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	3.80 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:2                      RELEASE ACTIVITY: EIDupont 20 dy  
 FACILITY NAME: E I DU PONT DE NEMOURS  
 FACILITY LOCATION: DEEPWATER NJ 08023  
 RECEIVING WATER NAME: DELAWARE R  
 REACH NUMBER: 02040204053      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: NJ0005100      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	3.8	3.80	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	2.42E+04	9166.39	6733.64	5370.29	NA
CONCENTRATION (µg/L)	0.16	0.41	0.56	0.71	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	4.74E-08 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	3.65E-06 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.57E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 2                                      RELEASE ACTIVITY: EIDupont 20 dy

FACILITY NAME: E I DU PONT DE NEMOURS

FACILITY LOCATION: DEEPWATER NJ 08023

RECEIVING STREAM NAME: DELAWARE R

REACH NUMBER: 02040204053                      FACILITY ON REACH: Yes                      DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NJ0005100              GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A                      GAGING STATION NUMBER OF OBSERVATIONS: N/A                      NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 4.54E+04                      7q10 FLOW (MLD): 6733.64                      EFFLUENT FLOW (MLD):218.77

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	20.00	3.80	0.00
151.00	0	0	20.00	3.80	0.00
1800.00	0	0	20.00	3.80	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:3

Number of Release Sites: 1.

Release Activity: BayerTX 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	9.97 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	2.85E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:3                      RELEASE ACTIVITY: BayerTX 350 dy  
 FACILITY NAME: BAYER CORPORATION-BAYTOWN  
 FACILITY LOCATION: BAYTOWN TX 77520  
 RECEIVING WATER NAME: CEDAR BAYOU  
 REACH NUMBER: 12040203002      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: TX0002798      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	350.	0.0285	2.85E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	98.72	15.44	9.06	9.06	NA
CONCENTRATION (µg/L)	0.29	1.85	3.15	3.15	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.52E-06 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.17E-04 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	6.99E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 3                                      RELEASE ACTIVITY: BayerTX 350 dy

FACILITY NAME: BAYER CORPORATION-BAYTOWN

FACILITY LOCATION: BAYTOWN TX 77520

RECEIVING STREAM NAME: CEDAR BAYOU

REACH NUMBER: 12040203002                      FACILITY ON REACH: Yes                      DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: TX0002798              GAGING STATION ID: 08067500

GAGING STATION PERIOD OF RECORD: 10/01/71 - 07/24/90              GAGING STATION                                      NUMBER OF STATIONS ON REACH: 1  
 NUMBER OF OBSERVATIONS: 6862.00

50 %ile FLOW (MLD): 24.46                      10 %ile FLOW (MLD): 2.37                      EFFLUENT FLOW (MLD):9.06

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	3	11	350.00	2.85E-02	0.00
151.00	2	7	350.00	2.85E-02	0.00
1800.00	1	4	350.00	2.85E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#: 1

Number of Release Sites: 1.

Release Activity: BayerTX 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	9.98 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.50 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:1                      RELEASE ACTIVITY: BayerTX 20 dy  
 FACILITY NAME: BAYER CORPORATION-BAYTOWN  
 FACILITY LOCATION: BAYTOWN TX 77520  
 RECEIVING WATER NAME: CEDAR BAYOU  
 REACH NUMBER: 12040203002      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: TX0002798      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.499	0.50	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	98.72	15.44	9.06	9.06	NA
CONCENTRATION (µg/L)	5.05	32.32	55.08	55.08	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.52E-06 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.17E-04 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.22E-03 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 1 RELEASE ACTIVITY: BayerTX 20 dy

FACILITY NAME: BAYER CORPORATION-BAYTOWN

FACILITY LOCATION: BAYTOWN TX 77520

RECEIVING STREAM NAME: CEDAR BAYOU

REACH NUMBER: 12040203002 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: TX0002798 GAGING STATION ID: 08067500

GAGING STATION PERIOD OF RECORD: 10/01/71 - 07/24/90 GAGING STATION NUMBER OF OBSERVATIONS: 6862.00 NUMBER OF STATIONS ON REACH: 1

50 %ile FLOW (MLD): 24.46 10 %ile FLOW (MLD): 2.37 EFFLUENT FLOW (MLD):9.06

RESULTS					
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	1	3	20.00	0.50	0.00
151.00	1	2	20.00	0.50	0.00
1800.00	0	1	20.00	0.50	0.00



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:5

Number of Release Sites: 1.

Release Activity: Institute 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.30 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	9.42E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:5                      RELEASE ACTIVITY: Institute 350 dy  
 FACILITY NAME: AVENTIS CROPSCIENCE USA L.P.  
 FACILITY LOCATION: INSTITUTE WV 25112  
 RECEIVING WATER NAME: KANAWHA R  
 REACH NUMBER: 05050008008              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WV0000086              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	350.	0.00942	9.42E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1.42E+04	4656.81	3340.32	2677.12	NA
CONCENTRATION (µg/L)	6.63E-04	2.02E-03	2.82E-03	3.52E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.50E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.69E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	7.66E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

**SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES**

SCENARIO NUMBER: 5

RELEASE ACTIVITY: Institute 350 dy

FACILITY NAME: AVENTIS CROPSCIENCE USA L.P.

FACILITY LOCATION: INSTITUTE WV 25112

RECEIVING STREAM NAME: KANAWHA R

REACH NUMBER: 05050008008

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: WV0000086

GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A

GAGING STATION

NUMBER OF OBSERVATIONS: N/A

NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 3.35E+04

7q10 FLOW (MLD): 3340.32

EFFLUENT FLOW (MLD): 1137.85

**RESULTS**

COC ( $\mu\text{g/L}$ )	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	350.00	9.42E-03	0.00
151.00	0	0	350.00	9.42E-03	0.00
1800.00	0	0	350.00	9.42E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#: 1

Number of Release Sites: 1.

Release Activity: Institute 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.30 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.17 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:1                      RELEASE ACTIVITY: Institute 20 dy  
 FACILITY NAME: AVENTIS CROPSCIENCE USA L.P.  
 FACILITY LOCATION: INSTITUTE WV 25112  
 RECEIVING WATER NAME: KANAWHA R  
 REACH NUMBER: 05050008008              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WV0000086              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.165	0.17	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1.42E+04	4656.81	3340.32	2677.12	NA
CONCENTRATION (µg/L)	1.16E-02	3.54E-02	4.94E-02	6.16E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.50E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.69E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.34E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 1

RELEASE ACTIVITY: Institute 20 dy

FACILITY NAME: AVENTIS CROPSCIENCE USA L.P.

FACILITY LOCATION: INSTITUTE WV 25112

RECEIVING STREAM NAME: KANAWHA R

REACH NUMBER: 05050008008

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: WV0000086

GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A

GAGING STATION

NUMBER OF STATIONS ON

NUMBER OF OBSERVATIONS: N/A

REACH: N/A

MEAN FLOW (MLD): 3.35E+04

7q10 FLOW (MLD): 3340.32

EFFLUENT FLOW (MLD): 1137.85

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	20.00	0.17	0.00
151.00	0	0	20.00	0.17	0.00
1800.00	0	0	20.00	0.17	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:7

Number of Release Sites: 1.

Release Activity: MPM 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.63 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	4.67E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:7                      RELEASE ACTIVITY: MPM 350 dy  
 FACILITY NAME: CROMPTON CORP  
 FACILITY LOCATION: FRIENDLY WV 26146  
 RECEIVING WATER NAME: OHIO R  
 REACH NUMBER: 05030201039      FACILITY ON REACH: No      DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WV0000094      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	350.	0.00467	4.67E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	3.90E+04	1.14E+04	8419.49	6704.31	NA
CONCENTRATION (µg/L)	1.20E-04	4.11E-04	5.55E-04	6.97E-04	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	6.31E-10 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	4.85E-08 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.56E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT  
Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 7    RELEASE ACTIVITY: MPM 350 dy

FACILITY NAME: CROMPTON CORP

FACILITY LOCATION: FRIENDLY WV 26146

RECEIVING STREAM NAME: OHIO R

REACH NUMBER: 05030201039                          FACILITY ON REACH: No                          DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: WV0000094                  GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A                  GAGING STATION NUMBER OF OBSERVATIONS: N/A                  NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 9.63E+04                          7q10 FLOW (MLD): 8419.49                          EFFLUENT FLOW (MLD):23.92

RESULTS

COC ( $\mu\text{g/L}$ )	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	350.00	4.67E-03	0.00
151.00	0	0	350.00	4.67E-03	0.00
1800.00	0	0	350.00	4.67E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:8

Number of Release Sites: 1.

Release Activity: MPM 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.64 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	8.18E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:8                      RELEASE ACTIVITY: MPM 20 dy  
 FACILITY NAME: CROMPTON CORP  
 FACILITY LOCATION: FRIENDLY WV 26146  
 RECEIVING WATER NAME: OHIO R  
 REACH NUMBER: 05030201039      FACILITY ON REACH: No      DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WV0000094      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.0818	8.18E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	3.90E+04	1.14E+04	8419.49	6704.31	NA
CONCENTRATION (µg/L)	2.10E-03	7.19E-03	9.72E-03	1.22E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	6.32E-10 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	4.86E-08 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	2.72E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 8                                      RELEASE ACTIVITY: MPM 20 dy

FACILITY NAME: CROMPTON CORP

FACILITY LOCATION: FRIENDLY WV 26146

RECEIVING STREAM NAME: OHIO R

REACH NUMBER: 05030201039                      FACILITY ON REACH: No                      DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: WV0000094              GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A              GAGING STATION NUMBER OF OBSERVATIONS: N/A                      NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 9.63E+04                      7q10 FLOW (MLD): 8419.49                      EFFLUENT FLOW (MLD):23.92

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	20.00	8.18E-02	0.00
151.00	0	0	20.00	8.18E-02	0.00
1800.00	0	0	20.00	8.18E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:9

Number of Release Sites: 1.

Release Activity: BASF 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.18 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	3.36E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:9                      RELEASE ACTIVITY: BASF 350 dy  
 FACILITY NAME: CIBA SPECIALTY CHEMICALS CORP  
 FACILITY LOCATION: WEST MEMPHIS AR 72301  
 RECEIVING WATER NAME:  
 REACH NUMBER: 08010100001              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: AR0037770              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	350.	0.00336	3.36E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8.23E+05	3.02E+05	2.51E+05	1.95E+05	NA
CONCENTRATION (µg/L)	4.08E-06	1.11E-05	1.34E-05	1.72E-05	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	2.15E-11 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.66E-09 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	4.22E-10 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT  
 Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 9                                      RELEASE ACTIVITY: BASF 350 dy

FACILITY NAME: CIBA SPECIALTY CHEMICALS CORP

FACILITY LOCATION: WEST MEMPHIS AR 72301

RECEIVING STREAM NAME:

REACH NUMBER: 08010100001                      FACILITY ON REACH: Yes                      DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: AR0037770              GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A                      GAGING STATION NUMBER OF OBSERVATIONS: N/A                      NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 1.16E+06                      7q10 FLOW (MLD): 2.51E+05                      EFFLUENT FLOW (MLD):0.75

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	350.00	3.36E-03	0.00
151.00	0	0	350.00	3.36E-03	0.00
1800.00	0	0	350.00	3.36E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:10

Number of Release Sites: 1.

Release Activity: BASF 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.18 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	5.88E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:10                      RELEASE ACTIVITY: BASF 20 dy  
 FACILITY NAME: CIBA SPECIALTY CHEMICALS CORP  
 FACILITY LOCATION: WEST MEMPHIS AR 72301  
 RECEIVING WATER NAME:  
 REACH NUMBER: 08010100001              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: AR0037770              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.0588	5.88E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8.23E+05	3.02E+05	2.51E+05	1.95E+05	NA
CONCENTRATION (µg/L)	7.14E-05	1.95E-04	2.35E-04	3.02E-04	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	2.15E-11 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.66E-09 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	7.38E-09 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 10                                      RELEASE ACTIVITY: BASF 20 dy

FACILITY NAME: CIBA SPECIALTY CHEMICALS CORP

FACILITY LOCATION: WEST MEMPHIS AR 72301

RECEIVING STREAM NAME:

REACH NUMBER: 08010100001                              FACILITY ON REACH: Yes                              DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: AR0037770                              GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A                              GAGING STATION NUMBER OF OBSERVATIONS: N/A                              NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 1.16E+06                              7q10 FLOW (MLD): 2.51E+05                              EFFLUENT FLOW (MLD):0.75

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	20.00	5.88E-02	0.00
151.00	0	0	20.00	5.88E-02	0.00
1800.00	0	0	20.00	5.88E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:11

Number of Release Sites: 1.

Release Activity: Arkema 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.25 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	7.25E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:11                      RELEASE ACTIVITY: Arkema 350 dy  
 FACILITY NAME: ATOCHEM NA ORGANIC  
 FACILITY LOCATION: GENESEO NY 14454  
 RECEIVING WATER NAME: GENESEE R  
 REACH NUMBER: 04130003013              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: NY0068225              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	350.	0.00073	7.25E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1159.98	320.06	208.93	170.73	NA
CONCENTRATION (µg/L)	6.25E-04	2.27E-03	3.47E-03	4.25E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.30E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.54E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	8.58E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

**SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES**

SCENARIO NUMBER: 11                                      RELEASE ACTIVITY: Arkema 350 dy

FACILITY NAME: ATOCHEM NA ORGANIC

FACILITY LOCATION: GENESEO NY 14454

RECEIVING STREAM NAME: GENESEE R

REACH NUMBER: 04130003013                      FACILITY ON REACH: Yes                      DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NY0068225              GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A                      GAGING STATION NUMBER OF OBSERVATIONS: N/A                      NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 4255.89                      7q10 FLOW (MLD): 208.93                      EFFLUENT FLOW (MLD):0.35

RESULTS					
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	350.00	7.25E-04	0.00
151.00	0	0	350.00	7.25E-04	0.00
1800.00	0	0	350.00	7.25E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:12

Number of Release Sites: 1.

Release Activity: Arkema 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.25 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.27E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:12                      RELEASE ACTIVITY: Arkema 20 dy  
 FACILITY NAME: ATOCHEM NA ORGANIC  
 FACILITY LOCATION: GENESEO NY 14454  
 RECEIVING WATER NAME: GENESEE R  
 REACH NUMBER: 04130003013              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: NY0068225              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.0127	1.27E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1159.98	320.06	208.93	170.73	NA
CONCENTRATION (µg/L)	1.09E-02	3.97E-02	6.08E-02	7.44E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.30E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.54E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.50E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 12                      RELEASE ACTIVITY: Arkema 20 dy  
 FACILITY NAME: ATOCHEM NA ORGANIC  
 FACILITY LOCATION: GENESEO NY 14454  
 RECEIVING STREAM NAME: GENESEE R  
 REACH NUMBER: 04130003013              FACILITY ON REACH: Yes              DISCHARGE TYPE: Direct  
 NPDES PERMIT NUMBER: NY0068225              GAGING STATION ID: N/A  
 GAGING STATION PERIOD OF RECORD: N/A              GAGING STATION NUMBER OF OBSERVATIONS: N/A              NUMBER OF STATIONS ON REACH: N/A  
 MEAN FLOW (MLD): 4255.89              7q10 FLOW (MLD): 208.93              EFFLUENT FLOW (MLD):0.35

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	20.00	1.27E-02	0.00
151.00	0	0	20.00	1.27E-02	0.00
1800.00	0	0	20.00	1.27E-02	0.00



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:13

Number of Release Sites: 1.

Release Activity: Eagle 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.25 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	7.13E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:13                      RELEASE ACTIVITY: Eagle 350 dy  
 FACILITY NAME: PPG IND-LAKE CHARLES  
 FACILITY LOCATION: LAKE CHARLES LA 70601  
 RECEIVING WATER NAME: CALCASIEU R  
 REACH NUMBER: 08080206033              FACILITY ON REACH: No    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: LA0000761              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	350.	0.00071	7.13E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	3997.81	1290.68	884.92	884.92	NA
CONCENTRATION (µg/L)	1.78E-04	5.52E-04	8.06E-04	8.06E-04	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	9.41E-10 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	7.24E-08 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	2.09E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

### INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

#### SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 13	RELEASE ACTIVITY: Eagle 350 dy	
FACILITY NAME: PPG IND-LAKE CHARLES		
FACILITY LOCATION: LAKE CHARLES LA 70601		
RECEIVING STREAM NAME: CALCASIEU R		
REACH NUMBER: 08080206033	FACILITY ON REACH: No	DISCHARGE TYPE: Direct
NPDES PERMIT NUMBER: LA0000761	GAGING STATION ID: N/A	
GAGING STATION PERIOD OF RECORD: N/A	GAGING STATION NUMBER OF OBSERVATIONS: N/A	NUMBER OF STATIONS ON REACH: N/A
MEAN FLOW (MLD): 1.08E+04	7q10 FLOW (MLD): 884.92	EFFLUENT FLOW (MLD): 884.92

#### RESULTS

COC ( $\mu\text{g/L}$ )	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	350.00	7.13E-04	0.00
151.00	0	0	350.00	7.13E-04	0.00
1800.00	0	0	350.00	7.13E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:14

Number of Release Sites: 1.

Release Activity: Eagle 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.25 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.25E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:14                      RELEASE ACTIVITY: Eagle 20 dy  
 FACILITY NAME: PPG IND-LAKE CHARLES  
 FACILITY LOCATION: LAKE CHARLES LA 70601  
 RECEIVING WATER NAME: CALCASIEU R  
 REACH NUMBER: 08080206033      FACILITY ON REACH: No      DISCHARGE TYPE: Direct  
 NPDES PERMIT #: LA0000761      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.0125	1.25E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	3997.81	1290.68	884.92	884.92	NA
CONCENTRATION (µg/L)	3.13E-03	9.68E-03	1.41E-02	1.41E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	9.42E-10 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	7.25E-08 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	3.67E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 14

RELEASE ACTIVITY: Eagle 20 dy

FACILITY NAME: PPG IND-LAKE CHARLES

FACILITY LOCATION: LAKE CHARLES LA 70601

RECEIVING STREAM NAME: CALCASIEU R

REACH NUMBER: 08080206033

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: LA0000761

GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A

GAGING STATION

NUMBER OF STATIONS ON REACH: N/A

NUMBER OF

OBSERVATIONS: N/A

MEAN FLOW (MLD): 1.08E+04

7q10 FLOW (MLD): 884.92

EFFLUENT FLOW (MLD):884.92

RESULTS

COC ( $\mu\text{g/L}$ )	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	20.00	1.25E-02	0.00
151.00	0	0	20.00	1.25E-02	0.00
1800.00	0	0	20.00	1.25E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:15

Number of Release Sites: 1.

Release Activity: BayerWV 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.25 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	7.09E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:15                      RELEASE ACTIVITY: BayerWV 350 dy  
 FACILITY NAME: BAYER CORP  
 FACILITY LOCATION: NEW MARTINSVILLE WV 26155  
 RECEIVING WATER NAME: OHIO R  
 REACH NUMBER: 05030201051              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WV0005169              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	350.	0.00071	7.09E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	3.88E+04	1.13E+04	8396.41	6686.06	NA
CONCENTRATION (µg/L)	1.83E-05	6.25E-05	8.44E-05	1.06E-04	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	9.63E-11 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	7.41E-09 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	2.37E-09 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 15                                      RELEASE ACTIVITY: BayerWV 350 dy

FACILITY NAME: BAYER CORP

FACILITY LOCATION: NEW MARTINSVILLE WV 26155

RECEIVING STREAM NAME: OHIO R

REACH NUMBER: 05030201051                      FACILITY ON REACH: Yes                      DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: WV0005169              GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A                      GAGING STATION NUMBER OF OBSERVATIONS: N/A                      NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 9.57E+04                      7q10 FLOW (MLD): 8396.41                      EFFLUENT FLOW (MLD):14.41

RESULTS					
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	350.00	7.09E-04	0.00
151.00	0	0	350.00	7.09E-04	0.00
1800.00	0	0	350.00	7.09E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:16

Number of Release Sites: 1.

Release Activity: BayerWV 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.25 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.24E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:16                      RELEASE ACTIVITY: BayerWV 20 dy  
 FACILITY NAME: BAYER CORP  
 FACILITY LOCATION: NEW MARTINSVILLE WV 26155  
 RECEIVING WATER NAME: OHIO R  
 REACH NUMBER: 05030201051              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WV0005169              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.0124	1.24E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	3.88E+04	1.13E+04	8396.41	6686.06	NA
CONCENTRATION (µg/L)	3.19E-04	1.09E-03	1.48E-03	1.85E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	9.62E-11 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	7.40E-09 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	4.14E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 16                                      RELEASE ACTIVITY: BayerWV 20 dy

FACILITY NAME: BAYER CORP

FACILITY LOCATION: NEW MARTINSVILLE WV 26155

RECEIVING STREAM NAME: OHIO R

REACH NUMBER: 05030201051                      FACILITY ON REACH: Yes                      DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: WV0005169              GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A                      GAGING STATION NUMBER OF OBSERVATIONS: N/A                      NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 9.57E+04                      7q10 FLOW (MLD): 8396.41                      EFFLUENT FLOW (MLD):14.41

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	20.00	1.24E-02	0.00
151.00	0	0	20.00	1.24E-02	0.00
1800.00	0	0	20.00	1.24E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:17

Number of Release Sites: 1.

Release Activity: ICLIP 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.13 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	3.72E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:17                      RELEASE ACTIVITY: ICLIP 350 dy  
 FACILITY NAME: AKZO NOBEL FUNCTIONAL CHEMICAL  
 FACILITY LOCATION: GALLIPOLIS FERRY WV 255151721  
 RECEIVING WATER NAME: OHIO R  
 REACH NUMBER: 05090101016              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WV0002496              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	350.	0.00037	3.72E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	6.89E+04	1.89E+04	1.42E+04	1.13E+04	NA
CONCENTRATION (µg/L)	5.40E-06	1.97E-05	2.62E-05	3.30E-05	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	2.85E-11 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.19E-09 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	7.47E-10 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 17

RELEASE ACTIVITY: ICLIP 350 dy

FACILITY NAME: AKZO NOBEL FUNCTIONAL CHEMICAL

FACILITY LOCATION: GALLIPOLIS FERRY WV 255151721

RECEIVING STREAM NAME: OHIO R

REACH NUMBER: 05090101016

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: WV0002496

GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A

GAGING STATION

NUMBER OF OBSERVATIONS: N/A

NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 1.74E+05

7q10 FLOW (MLD): 1.42E+04

EFFLUENT FLOW (MLD):2.05

RESULTS

COC ( $\mu\text{g/L}$ )	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	350.00	3.72E-04	0.00
151.00	0	0	350.00	3.72E-04	0.00
1800.00	0	0	350.00	3.72E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:18

Number of Release Sites: 1.

Release Activity: ICLIP 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.13 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	6.51E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:18                      RELEASE ACTIVITY: ICLIP 20 dy  
 FACILITY NAME: AKZO NOBEL FUNCTIONAL CHEMICAL  
 FACILITY LOCATION: GALLIPOLIS FERRY WV 255151721  
 RECEIVING WATER NAME: OHIO R  
 REACH NUMBER: 05090101016              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WV0002496              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.00651	6.51E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	6.89E+04	1.89E+04	1.42E+04	1.13E+04	NA
CONCENTRATION (µg/L)	9.45E-05	3.45E-04	4.58E-04	5.77E-04	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	2.85E-11 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.19E-09 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.31E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT  
Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 18 RELEASE ACTIVITY: ICLIP 20 dy  
FACILITY NAME: AKZO NOBEL FUNCTIONAL CHEMICAL  
FACILITY LOCATION: GALLIPOLIS FERRY WV 255151721  
RECEIVING STREAM NAME: OHIO R  
REACH NUMBER: 05090101016 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct  
NPDES PERMIT NUMBER: WV0002496 GAGING STATION ID: N/A  
GAGING STATION PERIOD OF RECORD: N/A GAGING STATION NUMBER OF OBSERVATIONS: N/A NUMBER OF STATIONS ON REACH: N/A  
MEAN FLOW (MLD): 1.74E+05 7q10 FLOW (MLD): 1.42E+04 EFFLUENT FLOW (MLD):2.05

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	20.00	6.51E-03	0.00
151.00	0	0	20.00	6.51E-03	0.00
1800.00	0	0	20.00	6.51E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:19

Number of Release Sites: 1.

Release Activity: Keeshan 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.66E-02 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	4.73E-05 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 19	RELEASE ACTIVITY: Keeshan 350 dy	
FACILITY NAME: KEESHAN AND CO-MANVEL		
FACILITY LOCATION: MANVEL TX 77578		
RECEIVING WATER NAME: WEST BAY		
REACH NUMBER: 12040204020	FACILITY ON REACH: No	DISCHARGE TYPE: Direct
NPDES PERMIT #: TX0072168	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	350.	1.00E-02	0.00005	4.73E-05	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	4.73
CHRONIC SCENARIO	1.00	4.73

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:20

Number of Release Sites: 1.

Release Activity: Keeshan 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.66E-02 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	8.28E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 20	RELEASE ACTIVITY: Keeshan 20 dy	
FACILITY NAME: KEESHAN AND CO-MANVEL		
FACILITY LOCATION: MANVEL TX 77578		
RECEIVING WATER NAME: WEST BAY		
REACH NUMBER: 12040204020	FACILITY ON REACH: No	DISCHARGE TYPE: Direct
NPDES PERMIT #: TX0072168	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	20.	1.00E-02	0.00083	8.28E-04	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	82.80
CHRONIC SCENARIO	1.00	82.80

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:21

Number of Release Sites: 1.

Release Activity: Indorama 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	9.31E-03 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	2.66E-05 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:21                      RELEASE ACTIVITY: Indorama 350 dy  
 FACILITY NAME: PPG IND-LAKE CHARLES  
 FACILITY LOCATION: LAKE CHARLES LA 70601  
 RECEIVING WATER NAME: CALCASIEU R  
 REACH NUMBER: 08080206033              FACILITY ON REACH: No    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: LA0000761              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	350.	0.00003	2.66E-05	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	3997.81	1290.68	884.92	884.92	NA
CONCENTRATION (µg/L)	6.65E-06	2.06E-05	3.01E-05	3.01E-05	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.51E-11 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.70E-09 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	7.81E-10 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 21

RELEASE ACTIVITY: Indorama 350 dy

FACILITY NAME: PPG IND-LAKE CHARLES

FACILITY LOCATION: LAKE CHARLES LA 70601

RECEIVING STREAM NAME: CALCASIEU R

REACH NUMBER: 08080206033

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: LA0000761

GAGING STATION ID: N/A

GAGING STATION PERIOD OF  
RECORD: N/A

GAGING STATION  
NUMBER OF  
OBSERVATIONS: N/A

NUMBER OF STATIONS ON  
REACH: N/A

MEAN FLOW (MLD): 1.08E+04

7q10 FLOW (MLD): 884.92

EFFLUENT FLOW  
(MLD):884.92

RESULTS

COC ( $\mu\text{g/L}$ )	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	350.00	2.70E-05	0.00
151.00	0	0	350.00	2.70E-05	0.00
1800.00	0	0	350.00	2.70E-05	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:22

Number of Release Sites: 1.

Release Activity: Indorama 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	9.32E-03 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	4.66E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:22                      RELEASE ACTIVITY: Indorama 20 dy  
 FACILITY NAME: PPG IND-LAKE CHARLES  
 FACILITY LOCATION: LAKE CHARLES LA 70601  
 RECEIVING WATER NAME: CALCASIEU R  
 REACH NUMBER: 08080206033              FACILITY ON REACH: No    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: LA0000761              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.00047	4.66E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	3997.81	1290.68	884.92	884.92	NA
CONCENTRATION (µg/L)	1.17E-04	3.61E-04	5.27E-04	5.27E-04	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.51E-11 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.70E-09 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.37E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT  
Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 22                      RELEASE ACTIVITY: Indorama 20 dy  
FACILITY NAME: PPG IND-LAKE CHARLES  
FACILITY LOCATION: LAKE CHARLES LA 70601  
RECEIVING STREAM NAME: CALCASIEU R  
REACH NUMBER: 08080206033              FACILITY ON REACH: No              DISCHARGE TYPE: Direct  
NPDES PERMIT NUMBER: LA0000761      GAGING STATION ID: N/A  
GAGING STATION PERIOD OF              GAGING STATION              NUMBER OF STATIONS ON  
RECORD: N/A                                  NUMBER OF                                  REACH: N/A  
OBSERVATIONS: N/A  
MEAN FLOW (MLD): 1.08E+04              7q10 FLOW (MLD): 884.92              EFFLUENT FLOW  
(MLD):884.92

RESULTS

COC ( $\mu\text{g/L}$ )	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	20.00	4.66E-04	0.00
151.00	0	0	20.00	4.66E-04	0.00
1800.00	0	0	20.00	4.66E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:23

Number of Release Sites: 1.

Release Activity: Chemtura 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.30E-03 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	2.37E-05 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:23                      RELEASE ACTIVITY: Chemtura 350 dy  
 FACILITY NAME: GE SPECIALTY CHEMICALS INC  
 FACILITY LOCATION: MORGANTOWN WV 26501  
 RECEIVING WATER NAME: MONONGAHELA R  
 REACH NUMBER: 05020003007      FACILITY ON REACH: No      DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WV0004740      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	350.	0.00002	2.37E-05	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	3434.56	1014.22	689.50	558.74	NA
CONCENTRATION (µg/L)	6.90E-06	2.34E-05	3.44E-05	4.24E-05	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.64E-11 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.80E-09 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	8.85E-10 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 23

RELEASE ACTIVITY: Chemtura 350 dy

FACILITY NAME: GE SPECIALTY CHEMICALS INC

FACILITY LOCATION: MORGANTOWN WV 26501

RECEIVING STREAM NAME: MONONGAHELA R

REACH NUMBER: 05020003007

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: WV0004740

GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A

GAGING STATION

NUMBER OF STATIONS ON REACH: N/A

NUMBER OF OBSERVATIONS: N/A

MEAN FLOW (MLD): 1.05E+04

7q10 FLOW (MLD): 689.50

EFFLUENT FLOW (MLD):5.21

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	350.00	2.40E-05	0.00
151.00	0	0	350.00	2.40E-05	0.00
1800.00	0	0	350.00	2.40E-05	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:24

Number of Release Sites: 1.

Release Activity: Chemtura 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.28E-03 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	4.14E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:24                      RELEASE ACTIVITY: Chemtura 20 dy  
 FACILITY NAME: GE SPECIALTY CHEMICALS INC  
 FACILITY LOCATION: MORGANTOWN WV 26501  
 RECEIVING WATER NAME: MONONGAHELA R  
 REACH NUMBER: 05020003007              FACILITY ON REACH: No      DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WV0004740              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.00041	4.14E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	3434.56	1014.22	689.50	558.74	NA
CONCENTRATION (µg/L)	1.21E-04	4.08E-04	6.00E-04	7.41E-04	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.63E-11 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.79E-09 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.55E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM MFG 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 24                                      RELEASE ACTIVITY: Chemtura 20 dy

FACILITY NAME: GE SPECIALTY CHEMICALS INC

FACILITY LOCATION: MORGANTOWN WV 26501

RECEIVING STREAM NAME: MONONGAHELA R

REACH NUMBER: 05020003007                      FACILITY ON REACH: No                      DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: WV0004740      GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A                      GAGING STATION NUMBER OF OBSERVATIONS: N/A                      NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 1.05E+04                      7q10 FLOW (MLD): 689.50                      EFFLUENT FLOW (MLD):5.21

RESULTS					
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	20.00	4.14E-04	0.00
151.00	0	0	20.00	4.14E-04	0.00
1800.00	0	0	20.00	4.14E-04	0.00

## 2. OES: IMPORT AND REPACKAGING

### INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM IMP 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#: 1

Number of Release Sites: 1.

Release Activity: Chemisphere 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.27 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	9.07E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM IMP 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:1                      RELEASE ACTIVITY: Chemisphere 250 dy  
 FACILITY NAME: MSD BISSEL POINT WWTP  
 FACILITY LOCATION: ST. LOUIS MO 63147  
 RECEIVING WATER NAME: MISSISSIPPI R  
 REACH NUMBER: 07140101014      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: MO0025178      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.	250.	0.00907	4.17E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	2.78E+05	1.02E+05	8.15E+04	6.38E+04	NA
CONCENTRATION (µg/L)	1.50E-05	4.10E-05	5.12E-05	6.53E-05	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	5.65E-11 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	4.35E-09 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.55E-09 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM IMP 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:2

Number of Release Sites: 1.

Release Activity: HubbardHall 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	145.00 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	0.58 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM IMP 54

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 2                                      Number of Sites: 1                                      RELEASE  
 ACTIVITY: HubbardHall 250 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.00	250.	0.58	0.27	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	0.93	2.15	3.41	4.04
ALL	10	39.60	13.29	7.76	7.57	6.74	20.08	34.38	35.24

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	3.49E-06	2.54E-05	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	2.68E-04	1.95E-03	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	8.16E-05	7.60E-04	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM IMP 54

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 2

RELEASE ACTIVITY: HubbardHall 250 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	2	8	250.00	0.58	54.00	High
151.00	1	3	250.00	0.58	54.00	High
1800.00	0	0	250.00	0.58	54.00	High



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM IMP 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:3

Number of Release Sites: 1.

Release Activity: Webb 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	97.50 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	0.39 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM IMP 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:3                      RELEASE ACTIVITY: Webb 250 dy  
 FACILITY NAME: MUSKEGON CO WWMS METRO WWTP  
 FACILITY LOCATION: MUSKEGON MI 49442  
 RECEIVING WATER NAME: MUSKEGON R  
 REACH NUMBER: 04060102006      FACILITY ON REACH: No      DISCHARGE TYPE: Direct  
 NPDES PERMIT #: MI0027391      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.	250.	0.39	0.18	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	4091.71	2456.24	1722.63	1387.02	NA
CONCENTRATION (µg/L)	4.38E-02	7.30E-02	0.10	0.13	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.65E-07 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.27E-05 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	2.77E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM IMP 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 3                                  RELEASE ACTIVITY: Webb 250 dy  
 FACILITY NAME: MUSKEGON CO WWMS METRO WWTP  
 FACILITY LOCATION: MUSKEGON MI 49442  
 RECEIVING STREAM NAME: MUSKEGON R  
 REACH NUMBER: 04060102006                  FACILITY ON REACH: No                  DISCHARGE TYPE: Direct  
 NPDES PERMIT NUMBER: MI0027391          GAGING STATION ID: N/A  
 GAGING STATION PERIOD OF RECORD: N/A      GAGING STATION NUMBER OF OBSERVATIONS: N/A      NUMBER OF STATIONS ON REACH: N/A  
 MEAN FLOW (MLD): 5214.19                      7q10 FLOW (MLD): 1722.63                  EFFLUENT FLOW (MLD):122.06

RESULTS					
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	250.00	0.39	54.00
151.00	0	0	250.00	0.39	54.00
1800.00	0	0	250.00	0.39	54.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM IMP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#: 1

Number of Release Sites: 1.

Release Activity: Research 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.57E-02 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	3.43E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM IMP 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1                                      Number of Sites: 1                                      RELEASE ACTIVITY: Research  
250 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	250.	0.00034	3.43E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	1.19E-03	2.77E-03	4.39E-03	5.19E-03
ALL	10	39.60	13.29	7.76	7.57	8.66E-03	2.58E-02	4.42E-02	4.53E-02

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	4.49E-09	3.26E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	3.45E-07	2.51E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	1.05E-07	9.78E-07	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM IMP 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1

RELEASE ACTIVITY: Research 250 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	250.00	3.43E-04	0.00	High
151.00	0	0	250.00	3.43E-04	0.00	High
1800.00	0	0	250.00	3.43E-04	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM IMP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:2

Number of Release Sites: 1.

Release Activity: Research 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.56E-02 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	4.28E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM IMP 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 2                                      Number of Sites: 1                                      RELEASE ACTIVITY: Research  
20 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.00428	4.28E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	1.49E-02	3.46E-02	5.47E-02	6.48E-02
ALL	10	39.60	13.29	7.76	7.57	0.11	0.32	0.55	0.57

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	4.48E-09	3.26E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	3.45E-07	2.51E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	1.31E-06	1.22E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM IMP 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 2

RELEASE ACTIVITY: Research 20 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	20.00	4.28E-03	0.00	High
151.00	0	0	20.00	4.28E-03	0.00	High
1800.00	0	0	20.00	4.28E-03	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM IMP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:3

Number of Release Sites: 1.

Release Activity: EMD 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	2.80E-02 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)

Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	1.12E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM IMP 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 3                                      Number of Sites: 1                                      RELEASE ACTIVITY:EMD 250 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	250.	0.00011	1.12E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	3.89E-04	9.04E-04	1.43E-03	1.70E-03
ALL	10	39.60	13.29	7.76	7.57	2.83E-03	8.43E-03	1.44E-02	1.48E-02

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	1.46E-09	1.07E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	1.13E-07	8.20E-07	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	3.43E-08	3.19E-07	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM IMP 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 3 RELEASE ACTIVITY: EMD 250 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS						
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	250.00	1.12E-04	0.00	High
151.00	0	0	250.00	1.12E-04	0.00	High
1800.00	0	0	250.00	1.12E-04	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM IMP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:4

Number of Release Sites: 1.

Release Activity: EMD 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.82E-02	N/A	N/A	N/A
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.41E-03	N/A/0.00	N/A	N/A
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM IMP 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 4                                      Number of Sites: 1                                      RELEASE ACTIVITY:EMD 20 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.00141	1.41E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	4.90E-03	1.14E-02	1.80E-02	2.13E-02
ALL	10	39.60	13.29	7.76	7.57	3.56E-02	0.11	0.18	0.19

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	1.48E-09	1.07E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	1.13E-07	8.25E-07	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	4.31E-07	4.02E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM IMP 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 4

RELEASE ACTIVITY: EMD 20 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC ( $\mu\text{g/L}$ )	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	20.00	1.41E-03	0.00	High
151.00	0	0	20.00	1.41E-03	0.00	High
1800.00	0	0	20.00	1.41E-03	0.00	High

### 3. OES: PROCESSING AS A REACTANT

#### INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM REACT 54

Assessor:

**ENVIRONMENTAL RELEASES**

Scenario#:1

Number of Release Sites: 1.

Release Activity: Amvac 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	213.15 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	0.61 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM REACT 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:1                      RELEASE ACTIVITY: Amvac 350 dy  
 FACILITY NAME: E I DUPONT DENOURS AND CO  
 FACILITY LOCATION: AXIS AL 36505  
 RECEIVING WATER NAME: MOBILE R  
 REACH NUMBER: 03160204014      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: AL0001597      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.	350.	0.609	0.28	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	7.54E+04	2.43E+04	1.85E+04	1.46E+04	NA
CONCENTRATION (µg/L)	3.71E-03	1.15E-02	1.51E-02	1.91E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.96E-08 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.51E-06 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	4.36E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT  
 Chemical ID: DCM REACT 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 1    RELEASE ACTIVITY: Amvac 350 dy

FACILITY NAME: E I DUPONT DENOURS AND CO

FACILITY LOCATION: AXIS AL 36505

RECEIVING STREAM NAME: MOBILE R

REACH NUMBER: 03160204014                          FACILITY ON REACH: Yes                          DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: AL0001597                  GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A                  GAGING STATION NUMBER OF OBSERVATIONS: N/A                  NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 1.55E+05                          7q10 FLOW (MLD): 1.85E+04                          EFFLUENT FLOW (MLD):22.01

RESULTS					
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	350.00	0.61	54.00
151.00	0	0	350.00	0.61	54.00
1800.00	0	0	350.00	0.61	54.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM REACT 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#: 1

Number of Release Sites: 1.

Release Activity: Dow 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	24.96 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	7.13E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM REACT 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:1                      RELEASE ACTIVITY: Dow 350 dy  
 FACILITY NAME: DOW CHEM-MIDLAND  
 FACILITY LOCATION: MIDLAND MI 48667  
 RECEIVING WATER NAME: TITTABABASSEE R  
 REACH NUMBER: 04080201001      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: MI0000868      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	350.	0.0713	7.13E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	2148.97	931.59	631.43	512.00	NA
CONCENTRATION (µg/L)	3.32E-02	7.65E-02	0.11	0.14	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.75E-07 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.35E-05 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	2.90E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM REACT 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:2

Number of Release Sites: 1.

Release Activity: Dow 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	25.00 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.25 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM REACT 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:2                      RELEASE ACTIVITY: Dow 20 dy  
 FACILITY NAME: DOW CHEM-MIDLAND  
 FACILITY LOCATION: MIDLAND MI 48667  
 RECEIVING WATER NAME: TITTABABASSEE R  
 REACH NUMBER: 04080201001      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: MI0000868      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	1.25	1.25	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	2148.97	931.59	631.43	512.00	NA
CONCENTRATION (µg/L)	0.58	1.34	1.98	2.44	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.75E-07 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.35E-05 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	5.08E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:





INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM REACT 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:3

Number of Release Sites: 1.

Release Activity: FMC 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.11 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	3.28E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM REACT 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:3                      RELEASE ACTIVITY: FMC 350 dy  
 FACILITY NAME: FMC - AGRICULTURAL PRODUCTS  
 FACILITY LOCATION: MIDDLEPORT NY 14105  
 RECEIVING WATER NAME: JEDDO CR  
 REACH NUMBER: 04130001021      FACILITY ON REACH: No      DISCHARGE TYPE: Direct  
 NPDES PERMIT #: NY0000345      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	350.	0.00033	3.28E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	9.46	2.30	1.26	1.07	NA
CONCENTRATION (µg/L)	3.47E-02	0.14	0.26	0.31	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.83E-07 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.41E-05 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	5.41E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM REACT 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:4

Number of Release Sites: 1.

Release Activity: FMC 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.11 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	5.73E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM REACT 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:4                      RELEASE ACTIVITY: FMC 20 dy  
 FACILITY NAME: FMC - AGRICULTURAL PRODUCTS  
 FACILITY LOCATION: MIDDLEPORT NY 14105  
 RECEIVING WATER NAME: JEDDO CR  
 REACH NUMBER: 04130001021      FACILITY ON REACH: No      DISCHARGE TYPE: Direct  
 NPDES PERMIT #: NY0000345      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.00573	5.73E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	9.46	2.30	1.26	1.07	NA
CONCENTRATION (µg/L)	0.61	2.50	4.55	5.37	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.82E-07 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.40E-05 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	9.45E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



#### 4. OES: PROCESSING: FORMULATION

##### INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FORM 00

Assessor:

**ENVIRONMENTAL RELEASES**

Scenario#: 1

Number of Release Sites: 1.

Release Activity: Arkema 300 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	30.00	N/A	N/A	N/A
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:	300.00	0.00/0.00	N/A	N/A
Per Site Release:	0.10	N/A/0.00	N/A	N/A
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM FORM 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:1                      RELEASE ACTIVITY: Arkema 300 dy  
 FACILITY NAME: ATOFINA CHEMICALS INC  
 FACILITY LOCATION: CALVERT CITY KY 42029  
 RECEIVING WATER NAME: TENNESSEE R  
 REACH NUMBER: 06040006017              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: KY0003603              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	300.	0.1	0.10	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8.62E+04	3.01E+04	2.31E+04	1.82E+04	NA
CONCENTRATION (µg/L)	1.16E-03	3.32E-03	4.34E-03	5.48E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	5.25E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	4.04E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.26E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT  
 Chemical ID: DCM FORM 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 1                                      RELEASE ACTIVITY: Arkema 300 dy

FACILITY NAME: ATOFINA CHEMICALS INC

FACILITY LOCATION: CALVERT CITY KY 42029

RECEIVING STREAM NAME: TENNESSEE R

REACH NUMBER: 06040006017                      FACILITY ON REACH: Yes                      DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: KY0003603              GAGING STATION ID: 03609500

GAGING STATION PERIOD OF RECORD: 01/01/66 - 10/09/84              GAGING STATION NUMBER OF OBSERVATIONS: 6858.00                      NUMBER OF STATIONS ON REACH: 1

50 %ile FLOW (MLD): 1.10E+05                      10 %ile FLOW (MLD): 6.95E+04                      EFFLUENT FLOW (MLD):18.27

RESULTS					
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	300.00	0.10	0.00
151.00	0	0	300.00	0.10	0.00
1800.00	0	0	300.00	0.10	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FORM 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:2

Number of Release Sites: 1.

Release Activity: Arkema 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	30.80 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.54 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM FORM 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:2                      RELEASE ACTIVITY: Arkema 20 dy  
 FACILITY NAME: ATOFINA CHEMICALS INC  
 FACILITY LOCATION: CALVERT CITY KY 42029  
 RECEIVING WATER NAME: TENNESSEE R  
 REACH NUMBER: 06040006017      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: KY0003603      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	1.54	1.54	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8.62E+04	3.01E+04	2.31E+04	1.82E+04	NA
CONCENTRATION (µg/L)	1.79E-02	5.12E-02	6.68E-02	8.45E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	5.39E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	4.14E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.94E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FORM 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#: 1

Number of Release Sites: 1.

Release Activity: McGean 300 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	114.00 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	300.00	0.00/0.00	N/A	N/A
Per Site Release:	0.38 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM FORM 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:1                      RELEASE ACTIVITY: McGean 300 dy  
 FACILITY NAME: DETROIT WWTP  
 FACILITY LOCATION: DETROIT MI 48209  
 RECEIVING WATER NAME: DETROIT R AT E. BELLE ISLAND  
 REACH NUMBER: 04090004009      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: MI0022802      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.	300.	0.38	0.17	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	3Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1.51E+05	9.95E+04	7.95E+04	6.23E+04	NA
CONCENTRATION (µg/L)	1.16E-03	1.76E-03	2.20E-03	2.81E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	5.24E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	4.03E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	6.66E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FORM 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 1                                      RELEASE ACTIVITY: McGean 300 dy

FACILITY NAME: DETROIT WWTP

FACILITY LOCATION: DETROIT MI 48209

RECEIVING STREAM NAME: DETROIT R AT E. BELLE ISLAND

REACH NUMBER: 04090004009                      FACILITY ON REACH: Yes                      DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: MI0022802              GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A                      GAGING STATION NUMBER OF OBSERVATIONS: N/A                      NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 1.22E+05                      7q10 FLOW (MLD): 7.95E+04                      EFFLUENT FLOW (MLD): 2499.99

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	300.00	0.38	54.00
151.00	0	0	300.00	0.38	54.00
1800.00	0	0	300.00	0.38	54.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FORM 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:2

Number of Release Sites: 1.

Release Activity: WMBarr 300 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.45 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	300.00	0.00/0.00	N/A	N/A
Per Site Release:	1.51E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM FORM 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:2                      RELEASE ACTIVITY: WMBarr 300 dy  
 FACILITY NAME: MEMPHIS-TE MAXSON STP SO PLT  
 FACILITY LOCATION: MEMPHIS TN 381093097  
 RECEIVING WATER NAME: MISSISSIPPI R  
 REACH NUMBER: 08010100001      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: TN0020729      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.	300.	0.00151	6.95E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8.23E+05	3.02E+05	2.51E+05	1.95E+05	NA
CONCENTRATION (µg/L)	8.44E-07	2.30E-06	2.77E-06	3.56E-06	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.81E-12 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.93E-10 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	8.72E-11 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FORM 54

**SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES**

SCENARIO NUMBER: 2

RELEASE ACTIVITY: WMBarr 300 dy

FACILITY NAME: MEMPHIS-TE MAXSON STP SO PLT

FACILITY LOCATION: MEMPHIS TN 381093097

RECEIVING STREAM NAME: MISSISSIPPI R

REACH NUMBER: 08010100001

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: TN0020729

GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A

GAGING STATION NUMBER OF OBSERVATIONS: N/A

NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 1.16E+06

7q10 FLOW (MLD): 2.51E+05

EFFLUENT FLOW (MLD): 215.16

**RESULTS**

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	300.00	1.51E-03	54.00
151.00	0	0	300.00	1.51E-03	54.00
1800.00	0	0	300.00	1.51E-03	54.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FORM 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:3

Number of Release Sites: 1.

Release Activity: Buckman 300 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	255.00 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)

Non-sludge/Sludge

Release Days/yr:	300.00	0.00/0.00	N/A	N/A
Per Site Release:	0.85 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM FORM 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:3                      RELEASE ACTIVITY: Buckman 300 dy  
 FACILITY NAME: MEMPHIS-MAYNARD C. STILES  
 FACILITY LOCATION: MEMPHIS TN 381277500  
 RECEIVING WATER NAME: MISSISSIPPI R  
 REACH NUMBER: 08010100031      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: TN0020711      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.	300.	0.85	0.39	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	3Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8.21E+05	3.01E+05	2.50E+05	1.94E+05	NA
CONCENTRATION (µg/L)	4.76E-04	1.30E-03	1.56E-03	2.01E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	2.15E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.66E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	4.92E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FORM 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:4

Number of Release Sites: 1.

Release Activity: Eurofins 300 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	5790.00 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	300.00	0.00/0.00	N/A	N/A
Per Site Release:	19.30 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FORM 54

<b>SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES</b>
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SCENARIO #: 4	Number of Sites: 1	RELEASE ACTIVITY: Eurofins 300 dy
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SIC-CODE DESCRIPTION: Inorganic Chemicals Manufacture

SIC-CODE (S): 281	EXPOSED POPULATION: Adult
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WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.00	300.	19.3	8.88	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	644.33	275.20	178.69	146.18	13.78	32.26	49.68	60.73
ALL	10	33.49	9.28	5.35	4.48	265.09	956.68	1659.44	1981.70

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
<b>Cancer</b>						
LADD <sub>pot</sub>	6.23E-05	1.20E-03	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	4.79E-03	9.22E-02	mg/L	0.00	0.00	mg/kg
<b>Acute</b>						
ADR <sub>pot</sub>	1.22E-03	3.62E-02	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FORM 54

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 4

RELEASE ACTIVITY: Eurofins 300 dy

SIC CODE DESCRIPTION: Inorganic Chemicals Manufacture

ASSOCIATED SIC CODES: 281

SIC CODE RESULTS

COC ( $\mu\text{g/L}$ )	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	61	221	300.00	19.30	54.00	High
151.00	50	181	300.00	19.30	54.00	High
1800.00	6	21	300.00	19.30	54.00	High



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FORM 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:3

Number of Release Sites: 1.

Release Activity: Solvay 300 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	11.58 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	300.00	0.00/0.00	N/A	N/A
Per Site Release:	3.86E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM FORM 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:3                      RELEASE ACTIVITY: Solvay 300 dy  
 FACILITY NAME: RHODIA INC.  
 FACILITY LOCATION: HOUSTON TX 77262  
 RECEIVING WATER NAME: BUFFALO BAYOU  
 REACH NUMBER: 12040104017      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: TX0007072      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	300.	0.0386	3.86E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	110.16	9.37	5.40	4.53	NA
CONCENTRATION (µg/L)	0.35	4.12	7.15	8.53	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.58E-06 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.22E-04 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.56E-04 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FORM 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 3    RELEASE ACTIVITY: Solvay 300 dy

FACILITY NAME: RHODIA INC.

FACILITY LOCATION: HOUSTON TX 77262

RECEIVING STREAM NAME: BUFFALO BAYOU

REACH NUMBER: 12040104017                          FACILITY ON REACH: Yes                          DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: TX0007072                  GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A                  GAGING STATION NUMBER OF OBSERVATIONS: N/A                          NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 2090.31                          7q10 FLOW (MLD): 5.40                          EFFLUENT FLOW (MLD): 2.76

RESULTS					
COC ( $\mu\text{g/L}$ )	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	300.00	3.86E-02	0.00
151.00	0	0	300.00	3.86E-02	0.00
1800.00	0	0	300.00	3.86E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FORM 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:4

Number of Release Sites: 1.

Release Activity: Solvay 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	11.60 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.58 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM FORM 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:4                      RELEASE ACTIVITY: Solvay 20 dy  
 FACILITY NAME: RHODIA INC.  
 FACILITY LOCATION: HOUSTON TX 77262  
 RECEIVING WATER NAME: BUFFALO BAYOU  
 REACH NUMBER: 12040104017      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: TX0007072      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.58	0.58	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	110.16	9.37	5.40	4.53	NA
CONCENTRATION (µg/L)	5.26	61.92	107.41	128.12	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.59E-06 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.22E-04 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	2.35E-03 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FORM 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:5

Number of Release Sites: 1.

Release Activity: Honeywell 300 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	4.47 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	300.00	0.00/0.00	N/A	N/A
Per Site Release:	1.49E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM FORM 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:5                      RELEASE ACTIVITY: Honeywell 300 dy  
 FACILITY NAME: ALLIED-SIGNAL INC-GEISMAR  
 FACILITY LOCATION: GEISMAR LA 70734  
 RECEIVING WATER NAME: MISSISSIPPI R  
 REACH NUMBER: 08070100001              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: LA0006181              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	300.	0.0149	1.49E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	3Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8.12E+05	2.98E+05	2.47E+05	1.92E+05	NA
CONCENTRATION (µg/L)	1.83E-05	5.01E-05	6.03E-05	7.75E-05	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	8.29E-11 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	6.38E-09 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.90E-09 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT  
Chemical ID: DCM FORM 00

**SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES**

SCENARIO NUMBER: 5                      RELEASE ACTIVITY: Honeywell 300 dy  
FACILITY NAME: ALLIED-SIGNAL INC-GEISMAR  
FACILITY LOCATION: GEISMAR LA 70734  
RECEIVING STREAM NAME: MISSISSIPPI R  
REACH NUMBER: 08070100001              FACILITY ON REACH: Yes              DISCHARGE TYPE: Direct  
NPDES PERMIT NUMBER: LA0006181              GAGING STATION ID: N/A  
GAGING STATION PERIOD OF RECORD: N/A              GAGING STATION NUMBER OF OBSERVATIONS: N/A              NUMBER OF STATIONS ON REACH: N/A  
MEAN FLOW (MLD): 1.14E+06              7q10 FLOW (MLD): 2.47E+05              EFFLUENT FLOW (MLD):1.40

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	300.00	1.49E-02	0.00
151.00	0	0	300.00	1.49E-02	0.00
1800.00	0	0	300.00	1.49E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FORM 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:6

Number of Release Sites: 1.

Release Activity: Honeywell 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	4.40 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.22 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM FORM 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:6                      RELEASE ACTIVITY: Honeywell 20 dy  
 FACILITY NAME: ALLIED-SIGNAL INC-GEISMAR  
 FACILITY LOCATION: GEISMAR LA 70734  
 RECEIVING WATER NAME: MISSISSIPPI R  
 REACH NUMBER: 08070100001      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: LA0006181      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.22	0.22	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8.12E+05	2.98E+05	2.47E+05	1.92E+05	NA
CONCENTRATION (µg/L)	2.71E-04	7.39E-04	8.90E-04	1.14E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	8.16E-11 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	6.28E-09 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	2.80E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT  
Chemical ID: DCM FORM 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 6 RELEASE ACTIVITY: Honeywell 20 dy  
FACILITY NAME: ALLIED-SIGNAL INC-GEISMAR  
FACILITY LOCATION: GEISMAR LA 70734  
RECEIVING STREAM NAME: MISSISSIPPI R  
REACH NUMBER: 08070100001 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct  
NPDES PERMIT NUMBER: LA0006181 GAGING STATION ID: N/A  
GAGING STATION PERIOD OF RECORD: N/A GAGING STATION NUMBER OF OBSERVATIONS: N/A NUMBER OF STATIONS ON REACH: N/A  
MEAN FLOW (MLD): 1.14E+06 7q10 FLOW (MLD): 2.47E+05 EFFLUENT FLOW (MLD):1.40

RESULTS					
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	20.00	0.22	0.00
151.00	0	0	20.00	0.22	0.00
1800.00	0	0	20.00	0.22	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FORM 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:7

Number of Release Sites: 1.

Release Activity: Stepan 300 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.32 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	300.00	0.00/0.00	N/A	N/A
Per Site Release:	7.73E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM FORM 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:7                      RELEASE ACTIVITY: Stepan 300 dy  
 FACILITY NAME: STEPAN COMPANY-ELWOOD  
 FACILITY LOCATION: ELWOOD IL 60421  
 RECEIVING WATER NAME: DES PLAINS R  
 REACH NUMBER: 07120004006      FACILITY ON REACH: No      DISCHARGE TYPE: Direct  
 NPDES PERMIT #: IL0002453              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	300.	0.00773	7.73E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	6250.28	3366.14	2387.10	1917.66	NA
CONCENTRATION (µg/L)	1.24E-03	2.30E-03	3.24E-03	4.03E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	5.59E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	4.30E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	8.70E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT  
Chemical ID: DCM FORM 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 7                                  RELEASE ACTIVITY: Stepan 300 dy  
FACILITY NAME: STEPAN COMPANY-ELWOOD  
FACILITY LOCATION: ELWOOD IL 60421  
RECEIVING STREAM NAME: DES PLAINS R  
REACH NUMBER: 07120004006                  FACILITY ON REACH: No                  DISCHARGE TYPE: Direct  
NPDES PERMIT NUMBER: IL0002453                  GAGING STATION ID: N/A  
GAGING STATION PERIOD OF RECORD: N/A                  GAGING STATION NUMBER OF OBSERVATIONS: N/A                  NUMBER OF STATIONS ON REACH: N/A  
MEAN FLOW (MLD): 8726.51                  7q10 FLOW (MLD): 2387.10                  EFFLUENT FLOW (MLD): 2.77

RESULTS

COC ( $\mu\text{g/L}$ )	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	300.00	7.73E-03	0.00
151.00	0	0	300.00	7.73E-03	0.00
1800.00	0	0	300.00	7.73E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FORM 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:8

Number of Release Sites: 1.

Release Activity:            Stepan 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.40 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.12 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM FORM 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:8                      RELEASE ACTIVITY: Stepan 20 dy  
 FACILITY NAME: STEPAN COMPANY-ELWOOD  
 FACILITY LOCATION: ELWOOD IL 60421  
 RECEIVING WATER NAME: DES PLAINS R  
 REACH NUMBER: 07120004006      FACILITY ON REACH: No      DISCHARGE TYPE: Direct  
 NPDES PERMIT #: IL0002453              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.12	0.12	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	6250.28	3366.14	2387.10	1917.66	NA
CONCENTRATION (µg/L)	1.92E-02	3.56E-02	5.03E-02	6.26E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	5.79E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	4.45E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.35E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FORM 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:9

Number of Release Sites: 1.

Release Activity: Elementis 300 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.23 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	300.00	0.00/0.00	N/A	N/A
Per Site Release:	7.55E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM FORM 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:9                      RELEASE ACTIVITY: Elementis 300 dy  
 FACILITY NAME: ELEMENTIS SPECIALTIES INC.  
 FACILITY LOCATION: CHARLESTON WV 253031323  
 RECEIVING WATER NAME: KANAWHA R  
 REACH NUMBER: 05050006001              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WV0051560              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	300.	0.00076	7.55E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8706.00	2278.96	1594.09	1284.22	NA
CONCENTRATION (µg/L)	8.67E-05	3.31E-04	4.74E-04	5.88E-04	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.92E-10 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	3.02E-08 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.25E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FORM 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:10

Number of Release Sites: 1.

Release Activity: Elementis 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.23 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.13E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM FORM 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:10                      RELEASE ACTIVITY: Elementis 20 dy  
 FACILITY NAME: ELEMENTIS SPECIALTIES INC.  
 FACILITY LOCATION: CHARLESTON WV 253031323  
 RECEIVING WATER NAME: KANAWHA R  
 REACH NUMBER: 05050006001              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WV0051560              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.0113	1.13E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8706.00	2278.96	1594.09	1284.22	NA
CONCENTRATION (µg/L)	1.30E-03	4.96E-03	7.09E-03	8.80E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.91E-10 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	3.01E-08 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.88E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:





## 5. OES: POLYURETHANE FOAM

### INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FOAM 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#: 1

Number of Release Sites: 1.

Release Activity: Pregis 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.27 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	9.07E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FOAM 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1                                      Number of Sites: 1                                      RELEASE ACTIVITY: Pregis 250 dy

SIC-CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

SIC-CODE (S): 2821,2823,2824                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	250.	0.00907	9.07E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	1321.81	604.40	403.46	328.18	6.86E-03	1.50E-02	2.25E-02	2.76E-02
ALL	10	44.53	13.72	8.02	7.44	0.20	0.66	1.13	1.22

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	2.58E-08	7.67E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	1.99E-06	5.90E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	5.68E-07	2.50E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FOAM 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO #: 1                                      RELEASE ACTIVITY: Pregis 250 dy

SIC CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

ASSOCIATED SIC CODES: 2821,2823,2824

SIC CODE RESULTS						
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	250.00	9.07E-03	0.00	High
151.00	0	0	250.00	9.07E-03	0.00	High
1800.00	0	0	250.00	9.07E-03	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FOAM 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#: 1

Number of Release Sites: 1.

Release Activity: Pregis 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.26 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.11 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FOAM 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1                                      Number of Sites: 1                                      RELEASE ACTIVITY: Pregis 20 dy

SIC-CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

SIC-CODE (S): 2821,2823,2824                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.113	0.11	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	1321.81	604.40	403.46	328.18	8.55E-02	0.19	0.28	0.34
ALL	10	44.53	13.72	8.02	7.44	2.54	8.24	14.09	15.19

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	2.58E-08	7.65E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	1.98E-06	5.88E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	7.08E-06	3.12E-04	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FOAM 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO #: 1

RELEASE ACTIVITY: Pregis 20 dy

SIC CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

ASSOCIATED SIC CODES: 2821,2823,2824

SIC CODE RESULTS
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COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	20.00	0.11	0.00	High
151.00	0	0	20.00	0.11	0.00	High
1800.00	0	0	20.00	0.11	0.00	High

## 6. OES: PLASTICS MANUFACTURING

### INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#: 1

Number of Release Sites: 1.

Release Activity: SabicAL 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.18 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	3.27E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1                                  Number of Sites: 1                                  RELEASE ACTIVITY: SabicAL  
250 dy

SIC-CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

SIC-CODE (S): 2821,2823,2824                                  EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	250.	0.0327	3.27E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	1321.81	604.40	403.46	328.18	2.47E-02	5.41E-02	8.10E-02	9.96E-02
ALL	10	44.53	13.72	8.02	7.44	0.73	2.38	4.08	4.40

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	9.32E-08	2.77E-06	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	7.17E-06	2.13E-04	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	2.05E-06	9.03E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:





INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:2

Number of Release Sites: 1.

Release Activity: SabicAL 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.20 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.41 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 2                                      Number of Sites: 1                                      RELEASE ACTIVITY:SabicAL  
20 dy

SIC-CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

SIC-CODE (S): 2821,2823,2824                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.41	0.41	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	1321.81	604.40	403.46	328.18	0.31	0.68	1.02	1.25
ALL	10	44.53	13.72	8.02	7.44	9.21	29.88	51.12	55.11

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	9.35E-08	2.77E-06	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	7.19E-06	2.13E-04	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	2.57E-05	1.13E-03	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 2

RELEASE ACTIVITY: Sabical 20 dy

SIC CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

ASSOCIATED SIC CODES: 2821,2823,2824

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	1	20.00	0.41	0.00	High
151.00	0	1	20.00	0.41	0.00	High
1800.00	0	0	20.00	0.41	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:3

Number of Release Sites: 1.

Release Activity: SabicIN 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	27.50 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	0.11 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM PLAST 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:3                      RELEASE ACTIVITY: SabicIN 250 dy  
 FACILITY NAME: GE PLASTICS MT. VERNON INC.  
 FACILITY LOCATION: MOUNT VERNON IN 47620  
 RECEIVING WATER NAME: OHIO R  
 REACH NUMBER: 05140202013      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: IN0002101      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.11	0.11	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1.26E+05	2.93E+04	2.24E+04	1.77E+04	NA
CONCENTRATION (µg/L)	8.71E-04	3.75E-03	4.91E-03	6.20E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.28E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.52E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.42E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:4

Number of Release Sites: 1.

Release Activity: SabicIN 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	28.00 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.40 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM PLAST 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:4                      RELEASE ACTIVITY: SabicIN 20 dy  
 FACILITY NAME: GE PLASTICS MT. VERNON INC.  
 FACILITY LOCATION: MOUNT VERNON IN 47620  
 RECEIVING WATER NAME: OHIO R  
 REACH NUMBER: 05140202013      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: IN0002101      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	1.4	1.40	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1.26E+05	2.93E+04	2.24E+04	1.77E+04	NA
CONCENTRATION (µg/L)	1.11E-02	4.78E-02	6.24E-02	7.89E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.34E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.57E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.81E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:5

Number of Release Sites: 1.

Release Activity: SabicNY 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.75 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	3.50E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM PLAST 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:5                      RELEASE ACTIVITY: SabicNY 250 dy  
 FACILITY NAME: G E PLASTICS - SELKIRK OPER  
 FACILITY LOCATION: SELKIRK NY 12158  
 RECEIVING WATER NAME: HUDSON R  
 REACH NUMBER: 02020006041              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: NY0007072              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.035	3.50E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	2.20E+04	9341.45	6866.81	5475.75	NA
CONCENTRATION (µg/L)	1.59E-03	3.75E-03	5.10E-03	6.39E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	5.98E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	4.60E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.42E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:6

Number of Release Sites: 1.

Release Activity: SabicNY 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.80 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.44 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM PLAST 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:6                      RELEASE ACTIVITY: SabicNY 20 dy  
 FACILITY NAME: G E PLASTICS - SELKIRK OPER  
 FACILITY LOCATION: SELKIRK NY 12158  
 RECEIVING WATER NAME: HUDSON R  
 REACH NUMBER: 02020006041      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: NY0007072      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.44	0.44	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	3Q5	7Q10	1Q10	PLANT
FLOW (MLD)	2.20E+04	9341.45	6866.81	5475.75	NA
CONCENTRATION (µg/L)	2.00E-02	4.71E-02	6.41E-02	8.04E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	6.02E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	4.63E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.78E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

<b>SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES</b>
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SCENARIO NUMBER: 6                                      RELEASE ACTIVITY: SabicNY 20 dy

FACILITY NAME: G E PLASTICS - SELKIRK OPER

FACILITY LOCATION: SELKIRK NY 12158

RECEIVING STREAM NAME: HUDSON R

REACH NUMBER: 02020006041                      FACILITY ON REACH: Yes                      DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NY0007072              GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A                      GAGING STATION NUMBER OF OBSERVATIONS: N/A                      NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 3.65E+04                      7q10 FLOW (MLD): 6866.81                      EFFLUENT FLOW (MLD):7.38

RESULTS					
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	20.00	0.44	0.00
151.00	0	0	20.00	0.44	0.00
1800.00	0	0	20.00	0.44	0.00



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:7

Number of Release Sites: 1.

Release Activity: Equistar 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.65 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	3.46E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 7 RELEASE ACTIVITY: Equistar 250 dy

SIC CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

ASSOCIATED SIC CODES: 2821,2823,2824

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	250.00	3.46E-02	0.00	High
151.00	0	0	250.00	3.46E-02	0.00	High
1800.00	0	0	250.00	3.46E-02	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:8

Number of Release Sites: 1.

Release Activity: Equistar 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.60 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.43 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 8

RELEASE ACTIVITY: Equistar 20 dy

SIC CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

ASSOCIATED SIC CODES: 2821,2823,2824

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	1	20.00	0.43	0.00	High
151.00	0	1	20.00	0.43	0.00	High
1800.00	0	0	20.00	0.43	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:9

Number of Release Sites: 1.

Release Activity: Chemours 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	7.45 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	2.98E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM PLAST 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:9                      RELEASE ACTIVITY: Chemours 250 dy  
 FACILITY NAME: E I DUPONT DE NEMOURS & CO  
 FACILITY LOCATION: PARKERSBURG WV 26181  
 RECEIVING WATER NAME: OHIO R  
 REACH NUMBER: 05030202039      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WV0001279      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.0298	2.98E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	4.75E+04	1.34E+04	9979.15	7936.80	NA
CONCENTRATION (µg/L)	6.27E-04	2.22E-03	2.99E-03	3.75E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	2.36E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.82E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	8.42E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:





INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:10

Number of Release Sites: 1.

Release Activity: Chemours 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	7.40 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.37 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM PLAST 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:10                      RELEASE ACTIVITY: Chemours 20 dy  
 FACILITY NAME: E I DUPONT DE NEMOURS & CO  
 FACILITY LOCATION: PARKERSBURG WV 26181  
 RECEIVING WATER NAME: OHIO R  
 REACH NUMBER: 05030202039              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WV0001279              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.37	0.37	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	4.75E+04	1.34E+04	9979.15	7936.80	NA
CONCENTRATION (µg/L)	7.79E-03	2.76E-02	3.71E-02	4.66E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	2.35E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.81E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.05E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 10                                      RELEASE ACTIVITY: Chemours 20 dy

FACILITY NAME: E I DUPONT DE NEMOURS & CO

FACILITY LOCATION: PARKERSBURG WV 26181

RECEIVING STREAM NAME: OHIO R

REACH NUMBER: 05030202039                      FACILITY ON REACH: Yes                      DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: WV0001279              GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A                      GAGING STATION NUMBER OF OBSERVATIONS: N/A                      NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 1.20E+05                      7q10 FLOW (MLD): 9979.15                      EFFLUENT FLOW (MLD):216.75

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	20.00	0.37	0.00
151.00	0	0	20.00	0.37	0.00
1800.00	0	0	20.00	0.37	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:11

Number of Release Sites: 1.

Release Activity: Shintech 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.58 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	1.03E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM PLAST 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:11                      RELEASE ACTIVITY: Shintech 250 dy  
 FACILITY NAME: SHINTECH LOUISIANA LLC  
 FACILITY LOCATION: ADDIS LA 70710  
 RECEIVING WATER NAME: MISSISSIPPI R  
 REACH NUMBER: 08070100007              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: LA0055794              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.0103	1.03E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8.12E+05	2.98E+05	2.47E+05	1.92E+05	NA
CONCENTRATION (µg/L)	1.27E-05	3.46E-05	4.17E-05	5.36E-05	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	4.78E-11 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	3.68E-09 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.31E-09 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 11                                      RELEASE ACTIVITY: Shintech 250 dy  
 FACILITY NAME: SHINTECH LOUISIANA LLC  
 FACILITY LOCATION: ADDIS LA 70710  
 RECEIVING STREAM NAME: MISSISSIPPI R  
 REACH NUMBER: 08070100007                      FACILITY ON REACH: Yes                      DISCHARGE TYPE: Direct  
 NPDES PERMIT NUMBER: LA0055794              GAGING STATION ID: N/A  
 GAGING STATION PERIOD OF RECORD: N/A                      GAGING STATION NUMBER OF OBSERVATIONS: N/A                      NUMBER OF STATIONS ON REACH: N/A  
 MEAN FLOW (MLD): 1.14E+06                      7q10 FLOW (MLD): 2.47E+05                      EFFLUENT FLOW (MLD):3.59

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	250.00	1.03E-02	0.00
151.00	0	0	250.00	1.03E-02	0.00
1800.00	0	0	250.00	1.03E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:12

Number of Release Sites: 1.

Release Activity: Shintech 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.60 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.13 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM PLAST 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:12                      RELEASE ACTIVITY: Shintech 20 dy  
 FACILITY NAME: SHINTECH LOUISIANA LLC  
 FACILITY LOCATION: ADDIS LA 70710  
 RECEIVING WATER NAME: MISSISSIPPI R  
 REACH NUMBER: 08070100007              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: LA0055794              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.13	0.13	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	3Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8.12E+05	2.98E+05	2.47E+05	1.92E+05	NA
CONCENTRATION (µg/L)	1.60E-04	4.37E-04	5.26E-04	6.77E-04	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	4.82E-11 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	3.71E-09 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.65E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 12

RELEASE ACTIVITY: Shintech 20 dy

FACILITY NAME: SHINTECH LOUISIANA LLC

FACILITY LOCATION: ADDIS LA 70710

RECEIVING STREAM NAME: MISSISSIPPI R

REACH NUMBER: 08070100007

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: LA0055794

GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A

GAGING STATION

NUMBER OF OBSERVATIONS: N/A

NUMBER OF STATIONS ON REACH: N/A

MEAN FLOW (MLD): 1.14E+06

7q10 FLOW (MLD): 2.47E+05

EFFLUENT FLOW (MLD):3.59

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	20.00	0.13	0.00
151.00	0	0	20.00	0.13	0.00
1800.00	0	0	20.00	0.13	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:13

Number of Release Sites: 1.

Release Activity: Styrolution 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.17 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	6.62E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM PLAST 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:13                      RELEASE ACTIVITY: Styrolution 250 dy  
 FACILITY NAME: BASF - JOLIET  
 FACILITY LOCATION: CHANNAHON IL 60410  
 RECEIVING WATER NAME: DES PLAINS R  
 REACH NUMBER: 07120004002          FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: IL0001619            EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.00066	6.62E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	7537.30	4032.40	2877.81	2308.84	NA
CONCENTRATION (µg/L)	8.78E-05	1.64E-04	2.30E-04	2.87E-04	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.31E-10 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.55E-08 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	6.22E-09 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:14

Number of Release Sites: 1.

Release Activity: Styrolution 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.17 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	8.28E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM PLAST 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:14                      RELEASE ACTIVITY: Styrolution 20 dy  
 FACILITY NAME: BASF - JOLIET  
 FACILITY LOCATION: CHANNAHON IL 60410  
 RECEIVING WATER NAME: DES PLAINS R  
 REACH NUMBER: 07120004002              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: IL0001619              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.00828	8.28E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	7537.30	4032.40	2877.81	2308.84	NA
CONCENTRATION (µg/L)	1.10E-03	2.05E-03	2.88E-03	3.59E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.31E-10 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.55E-08 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	7.78E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:





INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:15

Number of Release Sites: 1.

Release Activity: Dow 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.33 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	1.31E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM PLAST 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:15                      RELEASE ACTIVITY: Dow 250 dy  
 FACILITY NAME: DOW CHEMICAL CO. (DALTON)  
 FACILITY LOCATION: DALTON GA 30720  
 RECEIVING WATER NAME: CONSAUGA R  
 REACH NUMBER: 03150101001          FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: GA0000426          EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.00131	1.31E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	983.26	310.01	202.14	165.22	NA
CONCENTRATION (µg/L)	1.33E-03	4.23E-03	6.48E-03	7.93E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	5.02E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	3.86E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.60E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:16

Number of Release Sites: 1.

Release Activity: Dow 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.33 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.64E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM PLAST 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:16                      RELEASE ACTIVITY: Dow 20 dy  
 FACILITY NAME: DOW CHEMICAL CO. (DALTON)  
 FACILITY LOCATION: DALTON GA 30720  
 RECEIVING WATER NAME: CONSAUGA R  
 REACH NUMBER: 03150101001              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: GA0000426              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.0164	1.64E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	983.26	310.01	202.14	165.22	NA
CONCENTRATION (µg/L)	1.67E-02	5.29E-02	8.11E-02	9.93E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	5.03E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	3.87E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	2.00E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:17

Number of Release Sites: 1.

Release Activity: Pregis 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.33E-02 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	9.34E-05 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 17                                      Number of Sites: 1                                      RELEASE ACTIVITY: Pregis 250 dy

SIC-CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

SIC-CODE (S): 2821,2823,2824                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	250.	0.00009	9.34E-05	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	1321.81	604.40	403.46	328.18	7.07E-05	1.55E-04	2.31E-04	2.85E-04
ALL	10	44.53	13.72	8.02	7.44	2.10E-03	6.81E-03	1.16E-02	1.26E-02

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	2.66E-10	7.90E-09	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	2.05E-08	6.08E-07	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	5.85E-09	2.58E-07	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 17

RELEASE ACTIVITY: Pregis 250 dy

SIC CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

ASSOCIATED SIC CODES: 2821,2823,2824

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	250.00	9.30E-05	0.00	High
151.00	0	0	250.00	9.30E-05	0.00	High
1800.00	0	0	250.00	9.30E-05	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:18

Number of Release Sites: 1.

Release Activity: Pregis 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.34E-02 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.17E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 18                                      Number of Sites: 1                                      RELEASE ACTIVITY: Pregis 20 dy

SIC-CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

SIC-CODE (S): 2821,2823,2824                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.00117	1.17E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	1321.81	604.40	403.46	328.18	8.85E-04	1.94E-03	2.90E-03	3.57E-03
ALL	10	44.53	13.72	8.02	7.44	2.63E-02	8.53E-02	0.15	0.16

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	2.67E-10	7.92E-09	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	2.05E-08	6.09E-07	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	7.33E-08	3.23E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM PLAST 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 18

RELEASE ACTIVITY: Pregis 20 dy

SIC CODE DESCRIPTION: Plastic Resins & Synthetic Fiber Manufacture

ASSOCIATED SIC CODES: 2821,2823,2824

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	20.00	1.17E-03	0.00	High
151.00	0	0	20.00	1.17E-03	0.00	High
1800.00	0	0	20.00	1.17E-03	0.00	High

## 7. OES: CTA FILM MANUFACTURING

### INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FILM 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#: 1

Number of Release Sites: 1.

Release Activity: Kodak 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	28.50 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	0.11 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM FILM 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:1                      RELEASE ACTIVITY: Kodak 250 dy  
 FACILITY NAME: EASTMAN KODAK CO  
 FACILITY LOCATION: ROCHESTER NY 14652  
 RECEIVING WATER NAME: GENESEE R  
 REACH NUMBER: 04130003001      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: NY0001643      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.114	0.11	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	3565.85	1528.47	1054.21	851.75	NA
CONCENTRATION (µg/L)	3.20E-02	7.46E-02	0.11	0.13	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.20E-07 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	9.26E-06 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	2.82E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM FILM 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:2

Number of Release Sites: 1.

Release Activity: Kodak 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	28.60 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.43 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM FILM 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:2                      RELEASE ACTIVITY: Kodak 20 dy  
 FACILITY NAME: EASTMAN KODAK CO  
 FACILITY LOCATION: ROCHESTER NY 14652  
 RECEIVING WATER NAME: GENESEE R  
 REACH NUMBER: 04130003001      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: NY0001643      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	1.43	1.43	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	3565.85	1528.47	1054.21	851.75	NA
CONCENTRATION (µg/L)	0.40	0.94	1.36	1.68	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.21E-07 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	9.30E-06 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	3.54E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



## 8. OES: LITHOGRAPHIC PRINTER CLEANER

### INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM LITH 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#: 1

Number of Release Sites: 1.

Release Activity: Rexon 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	9.25E-04 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	3.70E-06 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM LITH 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1                                      Number of Sites: 1                                      RELEASE ACTIVITY:Rexon  
250 dy

SIC-CODE DESCRIPTION: Printing

SIC-CODE (S): 271-277                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	250.	3.70e-06	3.70E-06	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	5204.76	2263.90	1583.16	1275.49	7.11E-07	1.63E-06	2.34E-06	2.90E-06
ALL	10	302.17	109.05	68.58	56.47	1.22E-05	3.39E-05	5.40E-05	6.55E-05

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	2.68E-12	4.61E-11	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	2.06E-10	3.55E-09	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	6.19E-11	1.29E-09	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM LITH 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO #: 1                                      RELEASE ACTIVITY: REXON 250 dy

SIC CODE DESCRIPTION: Printing

ASSOCIATED SIC CODES: 271-277

SIC CODE RESULTS						
COC ( $\mu\text{g/L}$ )	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	250.00	4.00E-06	0.00	High
151.00	0	0	250.00	4.00E-06	0.00	High
1800.00	0	0	250.00	4.00E-06	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM LITH 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:2

Number of Release Sites: 1.

Release Activity: Rexon 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	9.28E-04 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	4.64E-05 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM LITH 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 2                      Number of Sites: 1                      RELEASE ACTIVITY:Rexon 20 dy

SIC-CODE DESCRIPTION: Printing

SIC-CODE (S): 271-277                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.00005	4.64E-05	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	5204.76	2263.90	1583.16	1275.49	8.91E-06	2.05E-05	2.93E-05	3.64E-05
ALL	10	302.17	109.05	68.58	56.47	1.54E-04	4.25E-04	6.77E-04	8.22E-04

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	2.69E-12	4.63E-11	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	2.07E-10	3.56E-09	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	7.76E-10	1.61E-08	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

Chemical ID: DCM LITH 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO #: 2

RELEASE ACTIVITY: REXON 20 dy

SIC CODE DESCRIPTION: Printing

ASSOCIATED SIC CODES: 271-277

SIC CODE RESULTS
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COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	20.00	4.60E-05	0.00	High
151.00	0	0	20.00	4.60E-05	0.00	High
1800.00	0	0	20.00	4.60E-05	0.00	High



## 9. OES: SPOT CLEANER

### INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM SPOT 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#: 1

Number of Release Sites: 1.

Release Activity: Boise 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	6.00E-02 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	2.40E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM SPOT 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:1                      RELEASE ACTIVITY: Boise 250 dy  
 FACILITY NAME: BOISE CITY OF  
 FACILITY LOCATION: BOISE ID 83703  
 RECEIVING WATER NAME: BOISE R  
 REACH NUMBER: 17050114026      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: ID0020443      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.00024	2.40E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	562.40	64.58	39.85	39.85	NA
CONCENTRATION (µg/L)	4.27E-04	3.72E-03	6.02E-03	6.02E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.61E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.24E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.41E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM SPOT 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 1                                      RELEASE ACTIVITY: Boise 250 dy  
 FACILITY NAME: BOISE CITY OF  
 FACILITY LOCATION: BOISE ID 83703  
 RECEIVING STREAM NAME: BOISE R  
 REACH NUMBER: 17050114026                      FACILITY ON REACH: Yes                      DISCHARGE TYPE: Direct  
 NPDES PERMIT NUMBER: ID0020443              GAGING STATION ID: 13205500  
 GAGING STATION PERIOD OF RECORD: 01/01/66 - 10/30/82              GAGING STATION NUMBER OF OBSERVATIONS: 6148.00                      NUMBER OF STATIONS ON REACH: 3  
 50 %ile FLOW (MLD): 1885.85                      10 %ile FLOW (MLD): 278.84                      EFFLUENT FLOW (MLD):39.85

RESULTS					
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	250.00	2.40E-04	0.00
151.00	0	0	250.00	2.40E-04	0.00
1800.00	0	0	250.00	2.40E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM SPOT 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:2

Number of Release Sites: 1.

Release Activity: Boise 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	6.00E-02 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	3.00E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM SPOT 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:2                      RELEASE ACTIVITY: Boise 20 dy  
 FACILITY NAME: BOISE CITY OF  
 FACILITY LOCATION: BOISE ID 83703  
 RECEIVING WATER NAME: BOISE R  
 REACH NUMBER: 17050114026      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: ID0020443      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.003	3.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	562.40	64.58	39.85	39.85	NA
CONCENTRATION (µg/L)	5.33E-03	4.65E-02	7.53E-02	7.53E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.61E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.24E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.76E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM SPOT 00

**SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES**

SCENARIO NUMBER: 2                      RELEASE ACTIVITY: Boise 20 dy

FACILITY NAME: BOISE CITY OF

FACILITY LOCATION: BOISE ID 83703

RECEIVING STREAM NAME: BOISE R

REACH NUMBER: 17050114026          FACILITY ON REACH: Yes          DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: ID0020443      GAGING STATION ID: 13205500

GAGING STATION PERIOD OF RECORD: 01/01/66 - 10/30/82      GAGING STATION NUMBER OF OBSERVATIONS: 6148.00          NUMBER OF STATIONS ON REACH: 3

50 %ile FLOW (MLD): 1885.85          10 %ile FLOW (MLD): 278.84          EFFLUENT FLOW (MLD):39.85

RESULTS					
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	20.00	3.00E-03	0.00
151.00	0	0	20.00	3.00E-03	0.00
1800.00	0	0	20.00	3.00E-03	0.00

**10. OES: RECYCLING AND DISPOSAL**

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:1

Number of Release Sites: 1.

Release Activity: Johnson 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	620.00	N/A	N/A	N/A
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	2.48	N/A/0.00	N/A	N/A
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 54

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1                                      Number of Sites: 1                                      RELEASE ACTIVITY: Johnson  
250 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.00	250.	2.48	1.14	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	3.96	9.21	14.59	17.27
ALL	10	39.60	13.29	7.76	7.57	28.81	85.84	147.01	150.70

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	1.49E-05	1.09E-04	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	1.15E-03	8.35E-03	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	3.49E-04	3.25E-03	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 54

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1

RELEASE ACTIVITY: Johnson 250 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	19	68	250.00	2.48	54.00	High
151.00	10	36	250.00	2.48	54.00	High
1800.00	0	0	250.00	2.48	54.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:2

Number of Release Sites: 1.

Release Activity: CleanHarborsTX 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	522.50 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)

Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	2.09 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 54

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 2                                      Number of Sites: 1                                      RELEASE  
ACTIVITY: Clean Harbors TX 250  
dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.00	250.	2.09	0.96	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	3.34	7.76	12.30	14.56
ALL	10	39.60	13.29	7.76	7.57	24.28	72.34	123.89	127.00

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	1.26E-05	9.15E-05	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	9.67E-04	7.04E-03	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	2.94E-04	2.74E-03	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:3

Number of Release Sites: 1.

Release Activity: CleanHarborsAR 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	112.50 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)

Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	0.45 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 54

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 3                                      Number of Sites: 1                                      RELEASE  
ACTIVITY: Clean Harbors AR 250  
dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.00	250.	0.45	0.21	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	0.72	1.67	2.65	3.13
ALL	10	39.60	13.29	7.76	7.57	5.23	15.58	26.68	27.34

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	2.71E-06	1.97E-05	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	2.08E-04	1.51E-03	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	6.33E-05	5.90E-04	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 54

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 3 RELEASE ACTIVITY: CleanHarborsAR 250 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	1	5	250.00	0.45	54.00	High
151.00	0	2	250.00	0.45	54.00	High
1800.00	0	0	250.00	0.45	54.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:4

Number of Release Sites: 1.

Release Activity: Tradebe 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	19.05 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	7.62E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:





INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 54

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 4

RELEASE ACTIVITY: Tradebe 250 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	250.00	7.62E-02	54.00	High
151.00	0	0	250.00	7.62E-02	54.00	High
1800.00	0	0	250.00	7.62E-02	54.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:5

Number of Release Sites: 1.

Release Activity: VeoliaOH 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.27 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	9.07E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM RECYC 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:5                      RELEASE ACTIVITY: VeoliaOH 250 dy  
 FACILITY NAME: MONTGOMERY CO. - WESTERN REG.  
 FACILITY LOCATION: WEST CARROLLTON OH 45439  
 RECEIVING WATER NAME: GREAT MIAMI R  
 REACH NUMBER: 05080002009              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: OH0026638              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.	250.	0.00907	4.17E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	2284.23	789.03	531.69	431.64	NA
CONCENTRATION (µg/L)	1.83E-03	5.29E-03	7.85E-03	9.67E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	6.88E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	5.29E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	2.00E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 5                                      RELEASE ACTIVITY: VeoliaOH 250 dy  
 FACILITY NAME: MONTGOMERY CO. - WESTERN REG.  
 FACILITY LOCATION: WEST CARROLLTON OH 45439  
 RECEIVING STREAM NAME: GREAT MIAMI R  
 REACH NUMBER: 05080002009                      FACILITY ON REACH: Yes                      DISCHARGE TYPE: Direct  
 NPDES PERMIT NUMBER: OH0026638              GAGING STATION ID: N/A  
 GAGING STATION PERIOD OF RECORD: N/A                      GAGING STATION NUMBER OF OBSERVATIONS: N/A                      NUMBER OF STATIONS ON REACH: N/A  
 MEAN FLOW (MLD): 5994.53                      7q10 FLOW (MLD): 531.69                      EFFLUENT FLOW (MLD):374.32

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	250.00	9.07E-03	54.00
151.00	0	0	250.00	9.07E-03	54.00
1800.00	0	0	250.00	9.07E-03	54.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:6

Number of Release Sites: 1.

Release Activity: VeoliaCA 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.45 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	1.81E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM RECYC 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:6                      RELEASE ACTIVITY: VeoliaCA 250 dy  
 FACILITY NAME: LOS ANGELES COUNTY SAN DIST  
 FACILITY LOCATION: WHITTIER CA 90607  
 RECEIVING WATER NAME: SAN GABRIEL R  
 REACH NUMBER: 18070106006      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: CA0053911      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.	250.	0.00181	8.33E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	285.78	327.60	214.03	214.03	NA
CONCENTRATION (µg/L)	2.91E-03	2.54E-03	3.89E-03	3.89E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.10E-08 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	8.44E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	9.63E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT  
 Chemical ID: DCM RECYC 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 6                                      RELEASE ACTIVITY: VeoliaCA 250 dy

FACILITY NAME: LOS ANGELES COUNTY SAN DIST

FACILITY LOCATION: WHITTIER CA 90607

RECEIVING STREAM NAME: SAN GABRIEL R

REACH NUMBER: 18070106006                      FACILITY ON REACH: Yes              DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: CA0053911              GAGING STATION ID: 11087500

GAGING STATION PERIOD OF RECORD: 01/01/66 - 09/29/78              GAGING STATION NUMBER OF OBSERVATIONS: 4656.00              NUMBER OF STATIONS ON REACH: 1

50 %ile FLOW (MLD): 114.96                      10 %ile FLOW (MLD): 6.12              EFFLUENT FLOW (MLD):214.03

RESULTS					
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	5	20	250.00	1.81E-03	54.00
151.00	5	20	250.00	1.81E-03	54.00
1800.00	5	20	250.00	1.81E-03	54.00



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:7

Number of Release Sites: 1.

Release Activity: VeoliaNJ1 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	4.40 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	1.76E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM RECYC 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 7	RELEASE ACTIVITY: VeoliaNJ1 250 dy	
FACILITY NAME: MIDDLESEX CNTY UA		
FACILITY LOCATION: SAYREVILLE NJ 08872		
RECEIVING WATER NAME: RARITAN BAY		
REACH NUMBER: 02030104005	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: NJ0020141	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
54.	250.	321.00	0.0176	8.10E-03	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	5.00	5.04E-03
CHRONIC SCENARIO	10.00	2.52E-03

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:2

Number of Release Sites: 1.

Release Activity: VeoliaNJ2 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	7.65E+04 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	306.00 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 54

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 2    Number of Sites: 1    RELEASE  
ACTIVITY: VeoliaNJ2 250 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952    EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.00	250.	306.	140.76	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	488.75	1136.63	1800.46	2131.11
ALL	10	39.60	13.29	7.76	7.57	3554.55	1.06E+04	1.81E+04	1.86E+04

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	1.84E-03	1.34E-02	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	0.14	1.03	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	4.30E-02	0.40	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 54

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 2

RELEASE ACTIVITY: VeoliaNJ2 250 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	68	250	250.00	306.00	54.00	High
151.00	68	250	250.00	306.00	54.00	High
1800.00	55	200	250.00	306.00	54.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#: 1

Number of Release Sites: 1.

Release Activity: Chemical 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.58 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	1.43E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1                                      Number of Sites: 1                                      RELEASE ACTIVITY: Chemical  
250 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	250.	0.0143	1.43E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	4.97E-02	0.12	0.18	0.22
ALL	10	39.60	13.29	7.76	7.57	0.36	1.08	1.84	1.89

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	1.87E-07	1.36E-06	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	1.44E-05	1.05E-04	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	4.37E-06	4.08E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1

RELEASE ACTIVITY: Chemical 250 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	250.00	1.43E-02	0.00	High
151.00	0	0	250.00	1.43E-02	0.00	High
1800.00	0	0	250.00	1.43E-02	0.00	High



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:2

Number of Release Sites: 1.

Release Activity: Chemical 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.60 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.18 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 2

RELEASE ACTIVITY: Chemical 20 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	20.00	0.18	0.00	High
151.00	0	0	20.00	0.18	0.00	High
1800.00	0	0	20.00	0.18	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:3

Number of Release Sites: 1.

Release Activity: Oiltanking 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.83 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	3.32E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM RECYC 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:3                      RELEASE ACTIVITY: Oiltanking 250 dy  
 FACILITY NAME: S.I. ENTERPRISES LLC  
 FACILITY LOCATION: HOUSTON TX 77015  
 RECEIVING WATER NAME: CARPENTERS BAYOU  
 REACH NUMBER: 12040104010      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: TX0065943      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.00332	3.32E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	9.41	0.87	0.46	0.39	NA
CONCENTRATION (µg/L)	0.35	3.83	7.22	8.46	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.33E-06 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.02E-04 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.45E-04 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 3

RELEASE ACTIVITY: Oiltanking 250 dy

FACILITY NAME: S.I. ENTERPRISES LLC

FACILITY LOCATION: HOUSTON TX 77015

RECEIVING STREAM NAME: CARPENTERS BAYOU

REACH NUMBER: 12040104010

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: TX0065943

GAGING STATION ID: N/A

GAGING STATION PERIOD OF RECORD: N/A

GAGING STATION

NUMBER OF STATIONS ON REACH: N/A

NUMBER OF

OBSERVATIONS: N/A

MEAN FLOW (MLD): 204.08

7q10 FLOW (MLD): 0.46

EFFLUENT FLOW (MLD): 1.00E-02

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	250.00	3.32E-03	0.00
151.00	0	0	250.00	3.32E-03	0.00
1800.00	0	0	250.00	3.32E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:4

Number of Release Sites: 1.

Release Activity: Oiltanking 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.83 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	4.14E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM RECYC 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:4                      RELEASE ACTIVITY: Oiltanking 20 dy  
 FACILITY NAME: S.I. ENTERPRISES LLC  
 FACILITY LOCATION: HOUSTON TX 77015  
 RECEIVING WATER NAME: CARPENTERS BAYOU  
 REACH NUMBER: 12040104010      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: TX0065943      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.0414	4.14E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	9.41	0.87	0.46	0.39	NA
CONCENTRATION (µg/L)	4.40	47.72	90.00	105.52	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.33E-06 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.02E-04 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.81E-03 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:





INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:5

Number of Release Sites: 1.

Release Activity: Howard 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	6.07E-02 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	2.43E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 5                                      Number of Sites: 1                                      RELEASE ACTIVITY: Howard  
250 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	250.	0.00024	2.43E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	8.44E-04	1.96E-03	3.11E-03	3.68E-03
ALL	10	39.60	13.29	7.76	7.57	6.14E-03	1.83E-02	3.13E-02	3.21E-02

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	3.18E-09	2.31E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	2.45E-07	1.78E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	7.43E-08	6.93E-07	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:6

Number of Release Sites: 1.

Release Activity: Howard 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	6.08E-02 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	3.04E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 6                                      Number of Sites: 1                                      RELEASE ACTIVITY: Howard  
20 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.00304	3.04E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	1.06E-02	2.45E-02	3.89E-02	4.60E-02
ALL	10	39.60	13.29	7.76	7.57	7.68E-02	0.23	0.39	0.40

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	3.18E-09	2.31E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	2.45E-07	1.78E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	9.30E-07	8.66E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 6

RELEASE ACTIVITY: Howard 20 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	20.00	3.04E-03	0.00	High
151.00	0	0	20.00	3.04E-03	0.00	High
1800.00	0	0	20.00	3.04E-03	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:7

Number of Release Sites: 1.

Release Activity: Clifford 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.41E-02 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	9.65E-05 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:





INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 7

RELEASE ACTIVITY: Clifford 250 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	250.00	9.70E-05	0.00	High
151.00	0	0	250.00	9.70E-05	0.00	High
1800.00	0	0	250.00	9.70E-05	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:8

Number of Release Sites: 1.

Release Activity: Clifford 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.42E-02 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.21E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 8                                      Number of Sites: 1                                      RELEASE ACTIVITY: Clifford  
20 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.00121	1.21E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	4.20E-03	9.77E-03	1.55E-02	1.83E-02
ALL	10	39.60	13.29	7.76	7.57	3.06E-02	9.10E-02	0.16	0.16

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	1.27E-09	9.21E-09	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	9.74E-08	7.08E-07	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	3.70E-07	3.45E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 8

RELEASE ACTIVITY: Clifford 20 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	20.00	1.21E-03	0.00	High
151.00	0	0	20.00	1.21E-03	0.00	High
1800.00	0	0	20.00	1.21E-03	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:9

Number of Release Sites: 1.

Release Activity: CleanWater 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.38 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	9.52E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM RECYC 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 9	RELEASE ACTIVITY: CleanWater 250 dy	
FACILITY NAME: ISP ENVIRONMENTAL SERVICES INC		
FACILITY LOCATION: LINDEN NJ 07036		
RECEIVING WATER NAME: NEWARK BAY		
REACH NUMBER: 02030104002	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: NJ0000019	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	250.	0.34	0.00952	9.52E-03	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	28.00
CHRONIC SCENARIO	10.00	2.80

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:10

Number of Release Sites: 1.

Release Activity: CleanWater 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.40 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.12 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM RECYC 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 10	RELEASE ACTIVITY: CleanWater 20 dy	
FACILITY NAME: ISP ENVIRONMENTAL SERVICES INC		
FACILITY LOCATION: LINDEN NJ 07036		
RECEIVING WATER NAME: NEWARK BAY		
REACH NUMBER: 02030104002	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: NJ0000019	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	20.	0.34	0.12	0.12	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	352.94
CHRONIC SCENARIO	10.00	35.29

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:11

Number of Release Sites: 1.

Release Activity: Carborundum 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.24 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	9.72E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 11                                      Number of Sites: 1                                      RELEASE  
ACTIVITY: Carborundum 250 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	250.	0.00097	9.72E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	3.37E-03	7.85E-03	1.24E-02	1.47E-02
ALL	10	39.60	13.29	7.76	7.57	2.45E-02	7.31E-02	0.13	0.13

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	1.27E-08	9.25E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	9.78E-07	7.11E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	2.97E-07	2.77E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 11

RELEASE ACTIVITY: Carborundum 250 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	250.00	9.72E-04	0.00	High
151.00	0	0	250.00	9.72E-04	0.00	High
1800.00	0	0	250.00	9.72E-04	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:12

Number of Release Sites: 1.

Release Activity: Carborundum 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.24 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.22E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 12                                      Number of Sites: 1                                      RELEASE  
 ACTIVITY: Carborundum 20 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.0122	1.22E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	4.24E-02	9.85E-02	0.16	0.18
ALL	10	39.60	13.29	7.76	7.57	0.31	0.92	1.57	1.61

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	1.28E-08	9.28E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	9.82E-07	7.14E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	3.73E-06	3.48E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM RECYC 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 12

RELEASE ACTIVITY: Carborundum 20 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC ( $\mu\text{g/L}$ )	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	20.00	1.22E-02	0.00	High
151.00	0	0	20.00	1.22E-02	0.00	High
1800.00	0	0	20.00	1.22E-02	0.00	High

**11. OES: OTHER**

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:1

Number of Release Sites: 1.

Release Activity: Applied 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	42.25	N/A	N/A	N/A
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	0.17	N/A/0.00	N/A	N/A
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 54

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1                                      Number of Sites: 1                                      RELEASE ACTIVITY: Applied  
250 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.00	250.	0.169	7.77E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	0.27	0.63	0.99	1.18
ALL	10	39.60	13.29	7.76	7.57	1.96	5.85	10.02	10.27

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	1.02E-06	7.40E-06	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	7.82E-05	5.69E-04	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	2.38E-05	2.22E-04	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 54

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:2

Number of Release Sites: 1.

Release Activity: EMD 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.27 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	9.07E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM OTHER 54

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:2                      RELEASE ACTIVITY: EMD 250 dy  
 FACILITY NAME: JAFFREY W W T F  
 FACILITY LOCATION: JAFFREY NH 03452  
 RECEIVING WATER NAME: CONTOOCCOOK R  
 REACH NUMBER: 01070003024      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: NH0100595      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
54.	250.	0.00907	4.17E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	121.19	37.76	22.86	18.97	NA
CONCENTRATION (µg/L)	3.44E-02	0.11	0.18	0.22	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.30E-07 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	9.98E-06 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	4.19E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#: 1

Number of Release Sites: 1.

Release Activity: GBC 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.18 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	7.13E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM OTHER 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:1                      RELEASE ACTIVITY: GBC 250 dy  
 FACILITY NAME: OLIN CORPORATION SOMERS THIN S  
 FACILITY LOCATION: WATERBURY CT 06706  
 RECEIVING WATER NAME: NAUGATUCK R  
 REACH NUMBER: 01100005002      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: CT0021873      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.00071	7.13E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	550.85	225.04	145.09	118.86	NA
CONCENTRATION (µg/L)	1.29E-03	3.17E-03	4.91E-03	6.00E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	4.88E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	3.75E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.20E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 1                                      RELEASE ACTIVITY: GBC 250 dy

FACILITY NAME: OLIN CORPORATION SOMERS THIN S

FACILITY LOCATION: WATERBURY CT 06706

RECEIVING STREAM NAME: NAUGATUCK R

REACH NUMBER: 01100005002                      FACILITY ON REACH: Yes                      DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: CT0021873              GAGING STATION ID: 01208500

GAGING STATION PERIOD OF RECORD: 01/01/66 - 11/06/90              GAGING STATION NUMBER OF OBSERVATIONS: 9041.00                      NUMBER OF STATIONS ON REACH: 1

50 %ile FLOW (MLD): 914.80                      10 %ile FLOW (MLD): 298.41                      EFFLUENT FLOW (MLD):1.00E-02

RESULTS					
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	250.00	7.13E-04	0.00
151.00	0	0	250.00	7.13E-04	0.00
1800.00	0	0	250.00	7.13E-04	0.00



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:2

Number of Release Sites: 1.

Release Activity: GBC 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.18 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	8.91E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM OTHER 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:2                      RELEASE ACTIVITY: GBC 20 dy  
 FACILITY NAME: OLIN CORPORATION SOMERS THIN S  
 FACILITY LOCATION: WATERBURY CT 06706  
 RECEIVING WATER NAME: NAUGATUCK R  
 REACH NUMBER: 01100005002      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: CT0021873      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.00891	8.91E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	550.85	225.04	145.09	118.86	NA
CONCENTRATION (µg/L)	1.62E-02	3.96E-02	6.14E-02	7.50E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	4.87E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	3.75E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.50E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 2                                      RELEASE ACTIVITY: GBC 20 dy  
 FACILITY NAME: OLIN CORPORATION SOMERS THIN S  
 FACILITY LOCATION: WATERBURY CT 06706  
 RECEIVING STREAM NAME: NAUGATUCK R  
 REACH NUMBER: 01100005002                      FACILITY ON REACH: Yes                      DISCHARGE TYPE: Direct  
 NPDES PERMIT NUMBER: CT0021873              GAGING STATION ID: 01208500  
 GAGING STATION PERIOD OF RECORD: 01/01/66 - 11/06/90              GAGING STATION NUMBER OF OBSERVATIONS: 9041.00                      NUMBER OF STATIONS ON REACH: 1  
 50 %ile FLOW (MLD): 914.80                      10 %ile FLOW (MLD): 298.41                      EFFLUENT FLOW (MLD):1.00E-02

RESULTS					
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	20.00	8.91E-03	0.00
151.00	0	0	20.00	8.91E-03	0.00
1800.00	0	0	20.00	8.91E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:3

Number of Release Sites: 1.

Release Activity: Hyster 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.25E-04 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	9.00E-07 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 3

RELEASE ACTIVITY: Hyster 250 dy

SIC CODE DESCRIPTION: Motor Vehicle Manufacture

ASSOCIATED SIC CODES: 3711,3713

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	250.00	1.00E-06	0.00	High
151.00	0	0	250.00	1.00E-06	0.00	High
1800.00	0	0	250.00	1.00E-06	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:4

Number of Release Sites: 1.

Release Activity: Hyster 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.34E-04 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.17E-05 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 4                                      Number of Sites: 1                                      RELEASE ACTIVITY:Hyster 20 dy

SIC-CODE DESCRIPTION: Motor Vehicle Manufacture

SIC-CODE (S): 3711,3713                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.00001	1.17E-05	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	281.14	130.69	82.66	67.99	4.16E-05	8.95E-05	1.42E-04	1.72E-04
ALL	10	13.93	8.70	5.00	4.20	8.40E-04	1.34E-03	2.34E-03	2.79E-03

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	1.25E-11	2.53E-10	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	9.65E-10	1.95E-08	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	3.39E-09	5.09E-08	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 4

RELEASE ACTIVITY: Hyster 20 dy

SIC CODE DESCRIPTION: Motor Vehicle Manufacture

ASSOCIATED SIC CODES: 3711,3713

SIC CODE RESULTS

COC ( $\mu\text{g/L}$ )	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	20.00	1.20E-05	0.00	High
151.00	0	0	20.00	1.20E-05	0.00	High
1800.00	0	0	20.00	1.20E-05	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:5

Number of Release Sites: 1.

Release Activity: Avnet 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	4.73E-03 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	1.89E-05 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 5                                      Number of Sites: 1                                      RELEASE ACTIVITY: Avnet 250 dy

SIC-CODE DESCRIPTION: Electronic Components Manufacture

SIC-CODE (S): 3674,3679                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	250.	0.00002	1.89E-05	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	268.85	99.79	62.57	51.56	7.03E-05	1.89E-04	3.02E-04	3.67E-04
ALL	10	7.81	0.88	0.47	0.47	2.42E-03	2.15E-02	4.02E-02	4.02E-02

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	2.65E-10	9.12E-09	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	2.04E-08	7.01E-07	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	7.17E-09	8.13E-07	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 5

RELEASE ACTIVITY: Avnet 250 dy

SIC CODE DESCRIPTION: Electronic Components Manufacture

ASSOCIATED SIC CODES: 3674,3679

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	250.00	1.90E-05	0.00	High
151.00	0	0	250.00	1.90E-05	0.00	High
1800.00	0	0	250.00	1.90E-05	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:6

Number of Release Sites: 1.

Release Activity: Avnet 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	4.72E-03 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	2.36E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 6                                      Number of Sites: 1                                      RELEASE ACTIVITY: Avnet 20 dy

SIC-CODE DESCRIPTION: Electronic Components Manufacture

SIC-CODE (S): 3674,3679                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.00024	2.36E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	268.85	99.79	62.57	51.56	8.78E-04	2.36E-03	3.77E-03	4.58E-03
ALL	10	7.81	0.88	0.47	0.47	3.02E-02	0.27	0.50	0.50

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	2.65E-10	9.11E-09	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	2.03E-08	7.01E-07	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	8.96E-08	1.02E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 6

RELEASE ACTIVITY: Avnet 20 dy

SIC CODE DESCRIPTION: Electronic Components Manufacture

ASSOCIATED SIC CODES: 3674,3679

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	20.00	2.36E-04	0.00	High
151.00	0	0	20.00	2.36E-04	0.00	High
1800.00	0	0	20.00	2.36E-04	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:7

Number of Release Sites: 1.

Release Activity: Barge 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	6.95E-02 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	2.78E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:





INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 7

RELEASE ACTIVITY: Barge 250 dy

SIC CODE DESCRIPTION: Metal Finishing

ASSOCIATED SIC CODES: 34xx - 39xx

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	250.00	2.78E-04	0.00	High
151.00	0	0	250.00	2.78E-04	0.00	High
1800.00	0	0	250.00	2.78E-04	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:8

Number of Release Sites: 1.

Release Activity: Barge 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	6.96E-02 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	3.48E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 8                                      Number of Sites: 1                                      RELEASE ACTIVITY: Barge 20 dy

SIC-CODE DESCRIPTION: Metal Finishing

SIC-CODE (S): 34xx - 39xx                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.00348	3.48E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	300.46	107.45	67.50	55.59	1.16E-02	3.24E-02	5.16E-02	6.26E-02
ALL	10	23.74	4.69	2.64	2.27	0.15	0.74	1.32	1.53

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	3.49E-09	4.42E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	2.69E-07	3.40E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	1.23E-06	2.81E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 8

RELEASE ACTIVITY: Barge 20 dy

SIC CODE DESCRIPTION: Metal Finishing

ASSOCIATED SIC CODES: 34xx - 39xx

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	20.00	3.48E-03	0.00	High
151.00	0	0	20.00	3.48E-03	0.00	High
1800.00	0	0	20.00	3.48E-03	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:9

Number of Release Sites: 1.

Release Activity: AC&S 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.24E-02 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	4.97E-05 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 9

RELEASE ACTIVITY: AC&S 250 dy

SIC CODE DESCRIPTION: Metal Finishing

ASSOCIATED SIC CODES: 34xx - 39xx

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	250.00	5.00E-05	0.00	High
151.00	0	0	250.00	5.00E-05	0.00	High
1800.00	0	0	250.00	5.00E-05	0.00	High



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:10

Number of Release Sites: 1.

Release Activity: AC&S 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.24E-02 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	6.21E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 10                                      Number of Sites: 1                                      RELEASE ACTIVITY: AC&S 20 dy

SIC-CODE DESCRIPTION: Metal Finishing

SIC-CODE (S): 34xx - 39xx                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.00062	6.21E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	300.46	107.45	67.50	55.59	2.07E-03	5.78E-03	9.20E-03	1.12E-02
ALL	10	23.74	4.69	2.64	2.27	2.62E-02	0.13	0.24	0.27

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	6.23E-10	7.88E-09	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	4.79E-08	6.06E-07	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	2.19E-07	5.02E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 10

RELEASE ACTIVITY: AC&S 20 dy

SIC CODE DESCRIPTION: Metal Finishing

ASSOCIATED SIC CODES: 34xx - 39xx

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	20.00	6.21E-04	0.00	High
151.00	0	0	20.00	6.21E-04	0.00	High
1800.00	0	0	20.00	6.21E-04	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:11

Number of Release Sites: 1.

Release Activity: Moog 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.20E-03 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	1.28E-05 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 11                                      Number of Sites: 1                                      RELEASE ACTIVITY: Moog 250 dy

SIC-CODE DESCRIPTION: Metal Finishing

SIC-CODE (S): 34xx - 39xx                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	250.	0.00001	1.28E-05	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	300.46	107.45	67.50	55.59	4.26E-05	1.19E-04	1.90E-04	2.30E-04
ALL	10	23.74	4.69	2.64	2.27	5.39E-04	2.73E-03	4.85E-03	5.64E-03

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	1.60E-10	2.03E-09	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	1.23E-08	1.56E-07	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	4.51E-09	1.03E-07	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 11

RELEASE ACTIVITY: Moog 250 dy

SIC CODE DESCRIPTION: Metal Finishing

ASSOCIATED SIC CODES: 34xx - 39xx

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	250.00	1.30E-05	0.00	High
151.00	0	0	250.00	1.30E-05	0.00	High
1800.00	0	0	250.00	1.30E-05	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:12

Number of Release Sites: 1.

Release Activity: Moog 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.18E-03 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.59E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 12                                      Number of Sites: 1                                      RELEASE ACTIVITY: Moog 20 dy

SIC-CODE DESCRIPTION: Metal Finishing

SIC-CODE (S): 34xx - 39xx                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.00016	1.59E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	300.46	107.45	67.50	55.59	5.29E-04	1.48E-03	2.36E-03	2.86E-03
ALL	10	23.74	4.69	2.64	2.27	6.70E-03	3.39E-02	6.02E-02	7.00E-02

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	1.59E-10	2.02E-09	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	1.23E-08	1.55E-07	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	5.60E-08	1.28E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 12

RELEASE ACTIVITY: Moog 20 dy

SIC CODE DESCRIPTION: Metal Finishing

ASSOCIATED SIC CODES: 34xx - 39xx

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	20.00	1.59E-04	0.00	High
151.00	0	0	20.00	1.59E-04	0.00	High
1800.00	0	0	20.00	1.59E-04	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:13

Number of Release Sites: 1.

Release Activity: Oiltanking 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.64 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	2.54E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM OTHER 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:13                      RELEASE ACTIVITY: Oiltanking 250 dy  
 FACILITY NAME: BASF - JOLIET  
 FACILITY LOCATION: CHANNAHON IL 60410  
 RECEIVING WATER NAME: DES PLAINS R  
 REACH NUMBER: 07120004002              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: IL0001619              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.00254	2.54E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	7537.30	4032.40	2877.81	2308.84	NA
CONCENTRATION (µg/L)	3.37E-04	6.30E-04	8.83E-04	1.10E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.27E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	9.77E-08 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	2.39E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:14

Number of Release Sites: 1.

Release Activity: Oiltanking 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.64 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	3.18E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM OTHER 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:14                      RELEASE ACTIVITY: Oiltanking 20 dy  
 FACILITY NAME: BASF - JOLIET  
 FACILITY LOCATION: CHANNAHON IL 60410  
 RECEIVING WATER NAME: DES PLAINS R  
 REACH NUMBER: 07120004002              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: IL0001619              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.0318	3.18E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	7537.30	4032.40	2877.81	2308.84	NA
CONCENTRATION (µg/L)	4.22E-03	7.89E-03	1.11E-02	1.38E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.27E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	9.78E-08 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	2.99E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:15

Number of Release Sites: 1.

Release Activity: Nippon 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	21.80 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	8.72E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM OTHER 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:15                      RELEASE ACTIVITY: Nippon 250 dy  
 FACILITY NAME: WEYERHAEUSER CO  
 FACILITY LOCATION: LONGVIEW WA 98632  
 RECEIVING WATER NAME: COLUMBIA R  
 REACH NUMBER: 17080003028          FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WA0000124          EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.0872	8.72E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	4.18E+05	1.53E+05	1.24E+05	9.69E+04	NA
CONCENTRATION (µg/L)	2.09E-04	5.70E-04	7.03E-04	9.00E-04	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	7.86E-10 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	6.05E-08 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	2.16E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 15                                      RELEASE ACTIVITY: Nippon 250 dy  
 FACILITY NAME: WEYERHAEUSER CO  
 FACILITY LOCATION: LONGVIEW WA 98632  
 RECEIVING STREAM NAME: COLUMBIA R  
 REACH NUMBER: 17080003028                      FACILITY ON REACH: Yes                      DISCHARGE TYPE: Direct  
 NPDES PERMIT NUMBER: WA0000124              GAGING STATION ID: N/A  
 GAGING STATION PERIOD OF RECORD: N/A                      GAGING STATION NUMBER OF OBSERVATIONS: N/A                      NUMBER OF STATIONS ON REACH: N/A  
 MEAN FLOW (MLD): 6.27E+05                      7q10 FLOW (MLD): 1.24E+05                      EFFLUENT FLOW (MLD):191.95

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	250.00	8.72E-02	0.00
151.00	0	0	250.00	8.72E-02	0.00
1800.00	0	0	250.00	8.72E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:16

Number of Release Sites: 1.

Release Activity: Nippon 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	21.80 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.09 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM OTHER 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:16                      RELEASE ACTIVITY: Nippon 20 dy  
 FACILITY NAME: WEYERHAEUSER CO  
 FACILITY LOCATION: LONGVIEW WA 98632  
 RECEIVING WATER NAME: COLUMBIA R  
 REACH NUMBER: 17080003028              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WA0000124              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	1.09	1.09	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	4.18E+05	1.53E+05	1.24E+05	9.69E+04	NA
CONCENTRATION (µg/L)	2.61E-03	7.13E-03	8.79E-03	1.12E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	7.86E-10 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	6.05E-08 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	2.70E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:17

Number of Release Sites: 1.

Release Activity: TreeTop 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	7.60E-03 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	3.04E-05 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM OTHER 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:17                      RELEASE ACTIVITY: TreeTop 250 dy  
 FACILITY NAME: WENATCHEE CITY OF  
 FACILITY LOCATION: WENATCHEE WA 98807  
 RECEIVING WATER NAME: COLUMBIA R  
 REACH NUMBER: 17020010037              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WA0023949              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.00003	3.04E-05	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	2.41E+05	1.08E+05	8.63E+04	6.76E+04	NA
CONCENTRATION (µg/L)	1.26E-07	2.82E-07	3.52E-07	4.50E-07	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	4.75E-13 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	3.65E-11 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.07E-11 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:





INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:18

Number of Release Sites: 1.

Release Activity: TreeTop 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	7.60E-03 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	3.80E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM OTHER 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:18                      RELEASE ACTIVITY: TreeTop 20 dy  
 FACILITY NAME: WENATCHEE CITY OF  
 FACILITY LOCATION: WENATCHEE WA 98807  
 RECEIVING WATER NAME: COLUMBIA R  
 REACH NUMBER: 17020010037              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WA0023949              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.00038	3.80E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	2.41E+05	1.08E+05	8.63E+04	6.76E+04	NA
CONCENTRATION (µg/L)	1.57E-06	3.53E-06	4.40E-06	5.62E-06	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	4.75E-13 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	3.65E-11 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.34E-10 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:19

Number of Release Sites: 1.

Release Activity: Carousel 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	6.25E-04 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	2.50E-06 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 19                                      Number of Sites: 1                                      RELEASE ACTIVITY: Carousel  
250 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	250.	2.50e-06	2.50E-06	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	8.68E-06	2.02E-05	3.20E-05	3.79E-05
ALL	10	39.60	13.29	7.76	7.57	6.31E-05	1.88E-04	3.22E-04	3.30E-04

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	3.27E-11	2.38E-10	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	2.52E-09	1.83E-08	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	7.65E-10	7.12E-09	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 19

RELEASE ACTIVITY: Carousel 250 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	250.00	3.00E-06	0.00	High
151.00	0	0	250.00	3.00E-06	0.00	High
1800.00	0	0	250.00	3.00E-06	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:20

Number of Release Sites: 1.

Release Activity: Carousel 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	6.14E-04 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	3.07E-05 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM OTHER 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 20    Number of Sites: 1    RELEASE ACTIVITY: Carousel  
20 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952    EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.00003	3.07E-05	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	1.07E-04	2.48E-04	3.93E-04	4.65E-04
ALL	10	39.60	13.29	7.76	7.57	7.75E-04	2.31E-03	3.96E-03	4.06E-03

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	3.21E-11	2.34E-10	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	2.47E-09	1.80E-08	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	9.39E-09	8.75E-08	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT



Chemical ID: DCM OTHER 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 20

RELEASE ACTIVITY: Carousel 20 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC ( $\mu\text{g/L}$ )	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	20.00	3.10E-05	0.00	High
151.00	0	0	20.00	3.10E-05	0.00	High
1800.00	0	0	20.00	3.10E-05	0.00	High

**12. OES: DOD**

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM DOD 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:1

Number of Release Sites: 1.

Release Activity: Robins 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.45	N/A	N/A	N/A
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	1.81E-03	N/A/0.00	N/A	N/A
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM DOD 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:1                      RELEASE ACTIVITY: Robins 250 dy  
 FACILITY NAME: MACON-LOWER POPLAR ST WPCP  
 FACILITY LOCATION: MACON GA 312020108  
 RECEIVING WATER NAME: OCMULGEE R  
 REACH NUMBER: 03070103005      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: GA0024538      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.00181	1.81E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	3435.63	1443.45	993.57	803.09	NA
CONCENTRATION (µg/L)	5.27E-04	1.25E-03	1.82E-03	2.25E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.98E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.53E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	4.75E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM DOD 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 1                                      RELEASE ACTIVITY: Robins 250 dy  
 FACILITY NAME: MACON-LOWER POPLAR ST WPCP  
 FACILITY LOCATION: MACON GA 312020108  
 RECEIVING STREAM NAME: OCMULGEE R  
 REACH NUMBER: 03070103005                      FACILITY ON REACH: Yes                      DISCHARGE TYPE: Direct  
 NPDES PERMIT NUMBER: GA0024538              GAGING STATION ID: N/A  
 GAGING STATION PERIOD OF RECORD: N/A                      GAGING STATION NUMBER OF OBSERVATIONS: N/A                      NUMBER OF STATIONS ON REACH: N/A  
 MEAN FLOW (MLD): 6849.12                      7q10 FLOW (MLD): 993.57                      EFFLUENT FLOW (MLD):41.51

RESULTS					
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	250.00	1.81E-03	0.00
151.00	0	0	250.00	1.81E-03	0.00
1800.00	0	0	250.00	1.81E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM DOD 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:2

Number of Release Sites: 1.

Release Activity: Robins 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.45 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	2.27E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM DOD 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:2                      RELEASE ACTIVITY: Robins 20 dy  
 FACILITY NAME: MACON-LOWER POPLAR ST WPCP  
 FACILITY LOCATION: MACON GA 312020108  
 RECEIVING WATER NAME: OCMULGEE R  
 REACH NUMBER: 03070103005      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: GA0024538      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.0227	2.27E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	3435.63	1443.45	993.57	803.09	NA
CONCENTRATION (µg/L)	6.61E-03	1.57E-02	2.28E-02	2.83E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.99E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.53E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	5.96E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM DOD 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 2                                      RELEASE ACTIVITY: Robins 20 dy  
 FACILITY NAME: MACON-LOWER POPLAR ST WPCP  
 FACILITY LOCATION: MACON GA 312020108  
 RECEIVING STREAM NAME: OCMULGEE R  
 REACH NUMBER: 03070103005                      FACILITY ON REACH: Yes                      DISCHARGE TYPE: Direct  
 NPDES PERMIT NUMBER: GA0024538              GAGING STATION ID: N/A  
 GAGING STATION PERIOD OF RECORD: N/A              GAGING STATION NUMBER OF OBSERVATIONS: N/A                      NUMBER OF STATIONS ON REACH: N/A  
 MEAN FLOW (MLD): 6849.12                      7q10 FLOW (MLD): 993.57                      EFFLUENT FLOW (MLD):41.51

RESULTS					
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	20.00	2.27E-02	0.00
151.00	0	0	20.00	2.27E-02	0.00
1800.00	0	0	20.00	2.27E-02	0.00

**13. OES: WWTP**

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:1

Number of Release Sites: 1.

Release Activity: Little 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.76	N/A	N/A	N/A
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	1.03E-02	N/A/0.00	N/A	N/A
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:



INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 1	RELEASE ACTIVITY: Little 365 dy	
FACILITY NAME: CHEVRON USA INC		
FACILITY LOCATION: EL SEGUNDO CA 90245		
RECEIVING WATER NAME: PACIFIC OCEAN		
REACH NUMBER: 18070104003	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: CA0000337	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	365.	23.47	0.0103	1.03E-02	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	73.00	6.01E-03
CHRONIC SCENARIO	73.00	6.01E-03

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:2

Number of Release Sites: 1.

Release Activity: Little 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.80 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.19 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 2	RELEASE ACTIVITY: Little 20 dy	
FACILITY NAME: CHEVRON USA INC		
FACILITY LOCATION: EL SEGUNDO CA 90245		
RECEIVING WATER NAME: PACIFIC OCEAN		
REACH NUMBER: 18070104003	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: CA0000337	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	20.	23.47	0.19	0.19	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	73.00	0.11
CHRONIC SCENARIO	73.00	0.11

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:3

Number of Release Sites: 1.

Release Activity: Juanita 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.80 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	2.18E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 3	RELEASE ACTIVITY: Juanita 365 dy	
FACILITY NAME: CHEVRON USA INC		
FACILITY LOCATION: EL SEGUNDO CA 90245		
RECEIVING WATER NAME: PACIFIC OCEAN		
REACH NUMBER: 18070104003	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: CA0000337	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	365.	23.47	0.00218	2.18E-03	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	73.00	1.27E-03
CHRONIC SCENARIO	73.00	1.27E-03

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:4

Number of Release Sites: 1.

Release Activity: Juanita 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.79 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	3.97E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 4	RELEASE ACTIVITY: Juanita 20 dy	
FACILITY NAME: CHEVRON USA INC		
FACILITY LOCATION: EL SEGUNDO CA 90245		
RECEIVING WATER NAME: PACIFIC OCEAN		
REACH NUMBER: 18070104003	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: CA0000337	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	20.	23.47	0.0397	3.97E-02	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	73.00	2.32E-02
CHRONIC SCENARIO	73.00	2.32E-02

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:5

Number of Release Sites: 1.

Release Activity: London 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.40 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	1.09E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:5                      RELEASE ACTIVITY: London 365 dy  
 FACILITY NAME: LONDON CITY OF  
 FACILITY LOCATION: LONDON OH 43140  
 RECEIVING WATER NAME: OAK RUN  
 REACH NUMBER: 05060002103              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: OH0023779              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	365.	0.00109	1.09E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	21.67	9.18	5.29	5.29	NA
CONCENTRATION (µg/L)	5.03E-02	0.12	0.21	0.21	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	2.77E-07 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.13E-05 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	4.50E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:6

Number of Release Sites: 1.

Release Activity: London 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.40 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.98E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:6                      RELEASE ACTIVITY: London 20 dy  
 FACILITY NAME: LONDON CITY OF  
 FACILITY LOCATION: LONDON OH 43140  
 RECEIVING WATER NAME: OAK RUN  
 REACH NUMBER: 05060002103      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: OH0023779      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.0198	1.98E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	21.67	9.18	5.29	5.29	NA
CONCENTRATION (µg/L)	0.91	2.16	3.74	3.74	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	2.75E-07 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.12E-05 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	8.17E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:2

Number of Release Sites: 1.

Release Activity: LongBeach 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2730.20 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	7.48 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 2	RELEASE ACTIVITY: LongBeach 365 dy	
FACILITY NAME: LONG BEACH (C) WPCP		
FACILITY LOCATION: LONG BEACH NY 11561		
RECEIVING WATER NAME: EAST BAY		
REACH NUMBER: 02030202025	FACILITY ON REACH: No	DISCHARGE TYPE: Direct
NPDES PERMIT #: NY0020567	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	365.	23.22	7.48	7.48	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	322.14
CHRONIC SCENARIO	1.00	322.14

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:8

Number of Release Sites: 1.

Release Activity: LongBeach 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2720.00 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	136.00 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 8	RELEASE ACTIVITY: LongBeach 20 dy	
FACILITY NAME: LONG BEACH (C) WPCP		
FACILITY LOCATION: LONG BEACH NY 11561		
RECEIVING WATER NAME: EAST BAY		
REACH NUMBER: 02030202025	FACILITY ON REACH: No	DISCHARGE TYPE: Direct
NPDES PERMIT #: NY0020567	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	20.	23.22	136.	136.00	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	5857.02
CHRONIC SCENARIO	1.00	5857.02

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:9

Number of Release Sites: 1.

Release Activity: Middlesex 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1635.20 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	4.48 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 9	RELEASE ACTIVITY: Middlesex 365 dy	
FACILITY NAME: MIDDLESEX CNTY UA		
FACILITY LOCATION: SAYREVILLE NJ 08872		
RECEIVING WATER NAME: RARITAN BAY		
REACH NUMBER: 02030104005	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: NJ0020141	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	365.	321.00	4.48	4.48	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	5.00	2.79
CHRONIC SCENARIO	10.00	1.40

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:10

Number of Release Sites: 1.

Release Activity: Middlesex 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1634.00 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	81.70 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 10	RELEASE ACTIVITY: Middlesex 20 dy	
FACILITY NAME: MIDDLESEX CNTY UA		
FACILITY LOCATION: SAYREVILLE NJ 08872		
RECEIVING WATER NAME: RARITAN BAY		
REACH NUMBER: 02030104005	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: NJ0020141	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	20.	321.00	81.7	81.70	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	5.00	50.90
CHRONIC SCENARIO	10.00	25.45

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:11

Number of Release Sites: 1.

Release Activity: Joint 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	602.25 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	1.65 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 11	RELEASE ACTIVITY: Joint 365 dy	
FACILITY NAME: LOS ANGELES COUNTY SAN DIST		
FACILITY LOCATION: CARSON CA 90745		
RECEIVING WATER NAME: PACIFIC OCEAN		
REACH NUMBER: 18070104003	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: CA0053813	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	365.	1494.88	1.65	1.65	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	166.00	6.65E-03
CHRONIC SCENARIO	166.00	6.65E-03

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:12

Number of Release Sites: 1.

Release Activity: Joint 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	604.00 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	30.20 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 12	RELEASE ACTIVITY: Joint 20 dy	
FACILITY NAME: LOS ANGELES COUNTY SAN DIST		
FACILITY LOCATION: CARSON CA 90745		
RECEIVING WATER NAME: PACIFIC OCEAN		
REACH NUMBER: 18070104003	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: CA0053813	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	20.	1494.88	30.2	30.20	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	166.00	0.12
CHRONIC SCENARIO	166.00	0.12

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:13

Number of Release Sites: 1.

Release Activity: Hyperion 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	164.25 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	0.45 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 13	RELEASE ACTIVITY: Hyperion 365 dy	
FACILITY NAME: LOS ANGELES CITY OF		
FACILITY LOCATION: PLAYA DEL REY CA 902938598		
RECEIVING WATER NAME: PACIFIC OCEAN		
REACH NUMBER: 18070104005	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: CA0109991	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	365.	1491.29	0.45	0.45	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	84.00	3.59E-03
CHRONIC SCENARIO	84.00	3.59E-03

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:14

Number of Release Sites: 1.

Release Activity: Hyperion 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	164.40 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	8.22 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 14	RELEASE ACTIVITY: Hyperion 20 dy	
FACILITY NAME: LOS ANGELES CITY OF		
FACILITY LOCATION: PLAYA DEL REY CA 902938598		
RECEIVING WATER NAME: PACIFIC OCEAN		
REACH NUMBER: 18070104005	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: CA0109991	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	20.	1491.29	8.22	8.22	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	84.00	6.56E-02
CHRONIC SCENARIO	84.00	6.56E-02

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:15

Number of Release Sites: 1.

Release Activity: PtLoma 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	164.25 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	0.45 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 15	RELEASE ACTIVITY: PtLoma 365 dy	
FACILITY NAME: SAN DIEGO CITY OF		
FACILITY LOCATION: SAN DIEGO CA 92101		
RECEIVING WATER NAME: PACIFIC OCEAN		
REACH NUMBER: 18070304015	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: CA0107409	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	365.	416.35	0.45	0.45	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	1.08
CHRONIC SCENARIO	1.00	1.08

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:16

Number of Release Sites: 1.

Release Activity: PtLoma 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	164.40 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	8.22 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 16	RELEASE ACTIVITY: PtLoma 20 dy	
FACILITY NAME: SAN DIEGO CITY OF		
FACILITY LOCATION: SAN DIEGO CA 92101		
RECEIVING WATER NAME: PACIFIC OCEAN		
REACH NUMBER: 18070304015	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: CA0107409	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	20.	416.35	8.22	8.22	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	19.74
CHRONIC SCENARIO	1.00	19.74

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:17

Number of Release Sites: 1.

Release Activity: Regional 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	87.60 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	0.24 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:17                      RELEASE ACTIVITY: Regional 365 dy  
 FACILITY NAME: SACRAMENTO REGIONAL COUNTY SD  
 FACILITY LOCATION: ELK GROVE CA 95758  
 RECEIVING WATER NAME: SACRAMENTO R  
 REACH NUMBER: 18020109005              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: CA0077682              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	365.	0.24	0.24	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	4.41E+04	2.10E+04	1.59E+04	1.26E+04	NA
CONCENTRATION (µg/L)	5.45E-03	1.14E-02	1.51E-02	1.91E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.00E-08 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.30E-06 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	4.33E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:18

Number of Release Sites: 1.

Release Activity: Regional 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	86.20 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	4.31 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:18                      RELEASE ACTIVITY: Regional 20 dy  
 FACILITY NAME: SACRAMENTO REGIONAL COUNTY SD  
 FACILITY LOCATION: ELK GROVE CA 95758  
 RECEIVING WATER NAME: SACRAMENTO R  
 REACH NUMBER: 18020109005              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: CA0077682              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	4.31	4.31	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	4.41E+04	2.10E+04	1.59E+04	1.26E+04	NA
CONCENTRATION (µg/L)	9.78E-02	0.21	0.27	0.34	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	2.95E-08 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.27E-06 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	7.77E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:19

Number of Release Sites: 1.

Release Activity: Bergen 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	65.70 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	0.18 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 19	RELEASE ACTIVITY: Bergen 365 dy	
FACILITY NAME: SUFFOLK COUNTY SD#3-SOUTHWEST		
FACILITY LOCATION: WEST BABYLON NY 11704		
RECEIVING WATER NAME: ATLANTIC OCEAN		
REACH NUMBER: 02030202023	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: NY0104809	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	365.	49.25	0.18	0.18	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	3.65
CHRONIC SCENARIO	1.00	3.65

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:20

Number of Release Sites: 1.

Release Activity: Bergen 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	65.40 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	3.27 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 20	RELEASE ACTIVITY: Bergen 20 dy	
FACILITY NAME: SUFFOLK COUNTY SD#3-SOUTHWEST		
FACILITY LOCATION: WEST BABYLON NY 11704		
RECEIVING WATER NAME: ATLANTIC OCEAN		
REACH NUMBER: 02030202023	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: NY0104809	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	20.	49.25	3.27	3.27	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	66.40
CHRONIC SCENARIO	1.00	66.40

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:21

Number of Release Sites: 1.

Release Activity: NewRochelle 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	15.29 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	4.19E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 21	RELEASE ACTIVITY: NewRochelle 365 dy	
FACILITY NAME: NEW ROCHELLE SD		
FACILITY LOCATION: NEW ROCHELLE NY 10802		
RECEIVING WATER NAME: LONG ISLAND SOUND		
REACH NUMBER: 02030102001	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: NY0026697	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	365.	61.75	0.0419	4.19E-02	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	0.68
CHRONIC SCENARIO	1.00	0.68

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:22

Number of Release Sites: 1.

Release Activity: NewRochelle 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	15.40 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.77 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 22	RELEASE ACTIVITY: NewRochelle 20 dy	
FACILITY NAME: NEW ROCHELLE SD		
FACILITY LOCATION: NEW ROCHELLE NY 10802		
RECEIVING WATER NAME: LONG ISLAND SOUND		
REACH NUMBER: 02030102001	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: NY0026697	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	20.	61.75	0.77	0.77	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	12.47
CHRONIC SCENARIO	1.00	12.47

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:23

Number of Release Sites: 1.

Release Activity: Simi 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	6.61 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	1.81E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:23                      RELEASE ACTIVITY: Simi 365 dy  
 FACILITY NAME: SIMI VALLEY CITY OF  
 FACILITY LOCATION: SIMI VALLEY CA 93065  
 RECEIVING WATER NAME: ARROYO SIMI  
 REACH NUMBER: 18070103006              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: CA0055221              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	365.	0.0181	1.81E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	49.16	36.65	22.17	22.17	NA
CONCENTRATION (µg/L)	0.37	0.49	0.82	0.82	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	2.03E-06 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.56E-04 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.87E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:24

Number of Release Sites: 1.

Release Activity: Simi 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	6.60 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.33 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:24                      RELEASE ACTIVITY: Simi 20 dy  
 FACILITY NAME: SIMI VALLEY CITY OF  
 FACILITY LOCATION: SIMI VALLEY CA 93065  
 RECEIVING WATER NAME: ARROYO SIMI  
 REACH NUMBER: 18070103006              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: CA0055221              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.33	0.33	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	49.16	36.65	22.17	22.17	NA
CONCENTRATION (µg/L)	6.71	9.00	14.88	14.88	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	2.02E-06 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.56E-04 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	3.41E-04 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:25

Number of Release Sites: 1.

Release Activity: Oceanside 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.80 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	1.04E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 25	RELEASE ACTIVITY: Oceanside 365 dy	
FACILITY NAME: OCEANSIDE CITY OF WTR UTIL DEP		
FACILITY LOCATION: OCEANSIDE CA 92054		
RECEIVING WATER NAME: PACIFIC OCEAN		
REACH NUMBER: 18070303003	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: CA0107433	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	365.	15.83	0.0104	1.04E-02	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	0.66
CHRONIC SCENARIO	1.00	0.66

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:26

Number of Release Sites: 1.

Release Activity: Oceanside 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.80 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.19 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 26	RELEASE ACTIVITY: Oceanside 20 dy	
FACILITY NAME: OCEANSIDE CITY OF WTR UTIL DEP		
FACILITY LOCATION: OCEANSIDE CA 92054		
RECEIVING WATER NAME: PACIFIC OCEAN		
REACH NUMBER: 18070303003	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: CA0107433	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	20.	15.83	0.19	0.19	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	12.00
CHRONIC SCENARIO	1.00	12.00

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:27

Number of Release Sites: 1.

Release Activity: SantaCruz 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.42 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	6.62E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 27	RELEASE ACTIVITY: SantaCruz 365 dy	
FACILITY NAME: SANTA CRUZ CITY DPW		
FACILITY LOCATION: SANTA CRUZ CA 95060		
RECEIVING WATER NAME: PACIFIC OCEAN		
REACH NUMBER: 18060001003	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: CA0048194	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	365.	58.00	0.00662	6.62E-03	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	0.11
CHRONIC SCENARIO	1.00	0.11

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:28

Number of Release Sites: 1.

Release Activity: SantaCruz 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.40 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.12 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 28	RELEASE ACTIVITY: SantaCruz 20 dy	
FACILITY NAME: SANTA CRUZ CITY DPW		
FACILITY LOCATION: SANTA CRUZ CA 95060		
RECEIVING WATER NAME: PACIFIC OCEAN		
REACH NUMBER: 18060001003	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: CA0048194	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	20.	58.00	0.12	0.12	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	2.07
CHRONIC SCENARIO	1.00	2.07

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:29

Number of Release Sites: 1.

Release Activity: Corona 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.72 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	4.72E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 29                                      Number of Sites: 1                                      RELEASE ACTIVITY: Corona  
365 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	365.	0.00472	4.72E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	1.64E-02	3.81E-02	6.04E-02	7.15E-02
ALL	10	39.60	13.29	7.76	7.57	0.12	0.36	0.61	0.62

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	9.01E-08	6.56E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	6.93E-06	5.04E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	1.44E-06	1.35E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 29

RELEASE ACTIVITY: Corona 365 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	365.00	4.72E-03	0.00	High
151.00	0	0	365.00	4.72E-03	0.00	High
1800.00	0	0	365.00	4.72E-03	0.00	High



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:30

Number of Release Sites: 1.

Release Activity: Corona 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.72 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	8.61E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 30                                      Number of Sites: 1                                      RELEASE ACTIVITY: Corona 20 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.0861	8.61E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	0.30	0.70	1.10	1.30
ALL	10	39.60	13.29	7.76	7.57	2.17	6.48	11.10	11.37

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	9.01E-08	6.55E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	6.93E-06	5.04E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	2.63E-05	2.45E-04	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 30

RELEASE ACTIVITY: Corona 20 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	20.00	8.61E-02	0.00	High
151.00	0	0	20.00	8.61E-02	0.00	High
1800.00	0	0	20.00	8.61E-02	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:31

Number of Release Sites: 1.

Release Activity: BlindBrook 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.19 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	3.26E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 31	RELEASE ACTIVITY: BlindBrook 365 dy	
FACILITY NAME: BLIND BROOK SD WWTP		
FACILITY LOCATION: RYE NY 10580		
RECEIVING WATER NAME: LONG ISLAND SOUND		
REACH NUMBER: 02030102001	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: NY0026719	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	365.	19.13	0.00326	3.26E-03	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	0.17
CHRONIC SCENARIO	1.00	0.17

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:32

Number of Release Sites: 1.

Release Activity: BlindBrook 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.19 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	5.95E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 32	RELEASE ACTIVITY: BlindBrook 20 dy	
FACILITY NAME: BLIND BROOK SD WWTP		
FACILITY LOCATION: RYE NY 10580		
RECEIVING WATER NAME: LONG ISLAND SOUND		
REACH NUMBER: 02030102001	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: NY0026719	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	20.	19.13	0.0595	5.95E-02	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	3.11
CHRONIC SCENARIO	1.00	3.11

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:33

Number of Release Sites: 1.

Release Activity: McKinleyville 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.97 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	2.67E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:33                      RELEASE ACTIVITY: McKinleyville 365 dy  
 FACILITY NAME: MCKINLEYVILLE CSD  
 FACILITY LOCATION: MCKINLEYVILLE CA 95521  
 RECEIVING WATER NAME: MAD R  
 REACH NUMBER: 18010102012              FACILITY ON REACH: Unk    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: CA0024490              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	365.	0.00267	2.67E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	290.17	32.73	19.72	16.38	NA
CONCENTRATION (µg/L)	9.20E-03	8.16E-02	0.14	0.16	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	5.06E-08 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	3.89E-06 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	3.09E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:34

Number of Release Sites: 1.

Release Activity: McKinleyville 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.97 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	4.87E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:34                      RELEASE ACTIVITY: McKinleyville 20 dy  
 FACILITY NAME: MCKINLEYVILLE CSD  
 FACILITY LOCATION: MCKINLEYVILLE CA 95521  
 RECEIVING WATER NAME: MAD R  
 REACH NUMBER: 18010102012              FACILITY ON REACH: Unk    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: CA0024490              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.0487	4.87E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	290.17	32.73	19.72	16.38	NA
CONCENTRATION (µg/L)	0.17	1.49	2.47	2.97	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	5.06E-08 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	3.89E-06 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	5.63E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 34                                      RELEASE ACTIVITY: McKinleyville 20 dy  
 FACILITY NAME: MCKINLEYVILLE CSD  
 FACILITY LOCATION: MCKINLEYVILLE CA 95521  
 RECEIVING STREAM NAME: MAD R  
 REACH NUMBER: 18010102012                      FACILITY ON REACH: Unk                      DISCHARGE TYPE: Direct  
 NPDES PERMIT NUMBER: CA0024490              GAGING STATION ID: 11481000  
 GAGING STATION PERIOD OF RECORD: 01/01/66 - 12/17/90              GAGING STATION NUMBER OF OBSERVATIONS: 9114.00                      NUMBER OF STATIONS ON REACH: 1  
 50 %ile FLOW (MLD): 574.81                      10 %ile FLOW (MLD): 68.49                      EFFLUENT FLOW (MLD):1.00E-02

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	0	20.00	4.87E-02	0.00
151.00	0	0	20.00	4.87E-02	0.00
1800.00	0	0	20.00	4.87E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:35

Number of Release Sites: 1.

Release Activity: SanJose 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.43 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	1.19E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:35                      RELEASE ACTIVITY: SanJose 365 dy  
 FACILITY NAME: LOS ANGELES COUNTY SAN DIST  
 FACILITY LOCATION: WHITTIER CA 90607  
 RECEIVING WATER NAME: SAN GABRIEL R  
 REACH NUMBER: 18070106006              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: CA0053911              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	365.	0.00119	1.19E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	285.78	327.60	214.03	214.03	NA
CONCENTRATION (µg/L)	4.16E-03	3.63E-03	5.56E-03	5.56E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	2.29E-08 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.76E-06 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.38E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:





INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:36

Number of Release Sites: 1.

Release Activity: SanJose 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.43 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	2.17E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:36                      RELEASE ACTIVITY: SanJose 20 dy  
 FACILITY NAME: LOS ANGELES COUNTY SAN DIST  
 FACILITY LOCATION: WHITTIER CA 90607  
 RECEIVING WATER NAME: SAN GABRIEL R  
 REACH NUMBER: 18070106006              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: CA0053911              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.0217	2.17E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	285.78	327.60	214.03	214.03	NA
CONCENTRATION (µg/L)	7.59E-02	6.62E-02	0.10	0.10	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	2.29E-08 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.76E-06 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	2.51E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 36

RELEASE ACTIVITY: SanJose 20 dy

FACILITY NAME: LOS ANGELES COUNTY SAN DIST

FACILITY LOCATION: WHITTIER CA 90607

RECEIVING STREAM NAME: SAN GABRIEL R

REACH NUMBER: 18070106006

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: CA0053911

GAGING STATION ID: 11087500

GAGING STATION PERIOD OF  
RECORD: 01/01/66 - 09/29/78

GAGING STATION  
NUMBER OF  
OBSERVATIONS: 4656.00

NUMBER OF STATIONS ON  
REACH: 1

50 %ile FLOW (MLD): 114.96

10 %ile FLOW (MLD): 6.12

EFFLUENT FLOW  
(MLD):214.03

RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
90.00	0	2	20.00	2.17E-02	0.00
151.00	0	2	20.00	2.17E-02	0.00
1800.00	0	2	20.00	2.17E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:37

Number of Release Sites: 1.

Release Activity: Carmel 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.26 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	7.24E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 37	RELEASE ACTIVITY: Carmel 365 dy	
FACILITY NAME: CARMEL AREA WWD		
FACILITY LOCATION: CARMEL CA 93922		
RECEIVING WATER NAME: PACIFIC OCEAN		
REACH NUMBER: 18060012015	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: CA0047996	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	365.	8.71	0.00072	7.24E-04	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	8.31E-02
CHRONIC SCENARIO	1.00	8.31E-02

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:38

Number of Release Sites: 1.

Release Activity: Carmel 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.26 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.32E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

CHEMICAL ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 38	RELEASE ACTIVITY: Carmel 20 dy	
FACILITY NAME: CARMEL AREA WWD		
FACILITY LOCATION: CARMEL CA 93922		
RECEIVING WATER NAME: PACIFIC OCEAN		
REACH NUMBER: 18060012015	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: CA0047996	EXPOSED POPULATION: Adult	

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
0.	20.	8.71	0.0132	1.32E-02	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	1.52
CHRONIC SCENARIO	1.00	1.52

FISH INGESTION EXPOSURE ESTIMATES					
Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (g/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	0.00	33.00	78.00	80.00	7.50
LADC <sub>pot</sub> (mg/kg)	0.00	33.00	78.00	NA	NA
Acute					
ADR <sub>pot</sub> (mg/kg/day)	0.00	NA	1 day	80.00	279.00

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:39

Number of Release Sites: 1.

Release Activity: Cameron 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.24 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	6.48E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 39                                      Number of Sites: 1                                      RELEASE ACTIVITY: Cameron  
365 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	365.	0.00065	6.48E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	2.25E-03	5.23E-03	8.29E-03	9.81E-03
ALL	10	39.60	13.29	7.76	7.57	1.64E-02	4.88E-02	8.35E-02	8.56E-02

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	1.24E-08	9.00E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	9.52E-07	6.92E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	1.98E-07	1.85E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO #: 39

RELEASE ACTIVITY: Cameron 365 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS						
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	365.00	6.48E-04	0.00	High
151.00	0	0	365.00	6.48E-04	0.00	High
1800.00	0	0	365.00	6.48E-04	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:40

Number of Release Sites: 1.

Release Activity: Cameron 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.24 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.18E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 40                                      Number of Sites: 1                                      RELEASE ACTIVITY: Cameron  
20 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.0118	1.18E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	4.10E-02	9.53E-02	0.15	0.18
ALL	10	39.60	13.29	7.76	7.57	0.30	0.89	1.52	1.56

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	1.23E-08	8.98E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	9.50E-07	6.91E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	3.61E-06	3.36E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 40

RELEASE ACTIVITY: Cameron 20 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	20.00	1.18E-02	0.00	High
151.00	0	0	20.00	1.18E-02	0.00	High
1800.00	0	0	20.00	1.18E-02	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:41

Number of Release Sites: 1.

Release Activity: RedBluff 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.18 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	5.03E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:41                      RELEASE ACTIVITY: RedBluff 365 dy  
 FACILITY NAME: RED BLUFF CITY OF  
 FACILITY LOCATION: RED BLUFF CA 960800400  
 RECEIVING WATER NAME: SACRAMENTO R  
 REACH NUMBER: 18020103016          FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: CA0078891          EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	365.	0.0005	5.03E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1.89E+04	9231.33	6783.03	5409.40	NA
CONCENTRATION (µg/L)	2.66E-05	5.45E-05	7.42E-05	9.30E-05	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.46E-10 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.13E-08 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	2.06E-09 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:





INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:42

Number of Release Sites: 1.

Release Activity: RedBluff 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.18 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	9.18E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:42                      RELEASE ACTIVITY: RedBluff 20 dy  
 FACILITY NAME: RED BLUFF CITY OF  
 FACILITY LOCATION: RED BLUFF CA 960800400  
 RECEIVING WATER NAME: SACRAMENTO R  
 REACH NUMBER: 18020103016              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: CA0078891              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.00918	9.18E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1.89E+04	9231.33	6783.03	5409.40	NA
CONCENTRATION (µg/L)	4.86E-04	9.94E-04	1.35E-03	1.70E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.46E-10 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	1.13E-08 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	3.77E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:43

Number of Release Sites: 1.

Release Activity: 91stAve 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	30.88 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	8.46E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:43                      RELEASE ACTIVITY: 91stAve 365 dy  
 FACILITY NAME: PHOENIX CITY OF  
 FACILITY LOCATION: TOLLESON AZ 853539328  
 RECEIVING WATER NAME: SALT R  
 REACH NUMBER: 15060106001            FACILITY ON REACH: No    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: AZ0020524            EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	365.	0.0846	8.46E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	812.97	512.86	340.39	340.39	NA
CONCENTRATION (µg/L)	0.10	0.16	0.25	0.25	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	5.72E-07 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	4.40E-05 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	6.25E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:44

Number of Release Sites: 1.

Release Activity: 91stAve 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	30.80 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.54 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:44                      RELEASE ACTIVITY: 91stAve 20 dy  
 FACILITY NAME: PHOENIX CITY OF  
 FACILITY LOCATION: TOLLESON AZ 853539328  
 RECEIVING WATER NAME: SALT R  
 REACH NUMBER: 15060106001      FACILITY ON REACH: No      DISCHARGE TYPE: Direct  
 NPDES PERMIT #: AZ0020524      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	1.54	1.54	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	812.97	512.86	340.39	340.39	NA
CONCENTRATION (µg/L)	1.89	3.00	4.52	4.52	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	5.71E-07 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	4.39E-05 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.14E-04 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:





INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:45

Number of Release Sites: 1.

Release Activity: Everett 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	29.93 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	8.20E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:45                      RELEASE ACTIVITY: Everett 365 dy  
 FACILITY NAME: EVERETT CITY OF  
 FACILITY LOCATION: EVERETT WA 98205  
 RECEIVING WATER NAME: SNOHOMISH R  
 REACH NUMBER: 17110011001          FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WA0024490          EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	365.	0.082	8.20E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	126.32	151.78	96.51	96.51	NA
CONCENTRATION (µg/L)	0.65	0.54	0.85	0.85	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.57E-06 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.75E-04 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	2.05E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:46

Number of Release Sites: 1.

Release Activity: Everett 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	30.00 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.50 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:46                      RELEASE ACTIVITY: Everett 20 dy  
 FACILITY NAME: EVERETT CITY OF  
 FACILITY LOCATION: EVERETT WA 98205  
 RECEIVING WATER NAME: SNOHOMISH R  
 REACH NUMBER: 17110011001          FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WA0024490          EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	1.5	1.50	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	126.32	151.78	96.51	96.51	NA
CONCENTRATION (µg/L)	11.87	9.88	15.54	15.54	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.58E-06 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.75E-04 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	3.74E-04 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:47

Number of Release Sites: 1.

Release Activity: Pima 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	27.48 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	7.53E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:47                      RELEASE ACTIVITY: Pima 365 dy  
 FACILITY NAME: PIMA CNTY WASTEWATER MGMT  
 FACILITY LOCATION: TUCSON AZ 857439577  
 RECEIVING WATER NAME: SANTA CRUZ R  
 REACH NUMBER: 15050301003      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: AZ0020001      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	365.	0.0753	7.53E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	95.81	116.96	73.69	73.69	NA
CONCENTRATION (µg/L)	0.79	0.64	1.02	1.02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	4.32E-06 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	3.33E-04 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	2.44E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:48

Number of Release Sites: 1.

Release Activity: Pima 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	27.40 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	1.37 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:48                      RELEASE ACTIVITY: Pima 20 dy  
 FACILITY NAME: PIMA CNTY WASTEWATER MGMT  
 FACILITY LOCATION: TUCSON AZ 857439577  
 RECEIVING WATER NAME: SANTA CRUZ R  
 REACH NUMBER: 15050301003      FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: AZ0020001      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	1.37	1.37	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	95.81	116.96	73.69	73.69	NA
CONCENTRATION (µg/L)	14.30	11.71	18.59	18.59	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	4.31E-06 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	3.32E-04 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	4.44E-04 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:49

Number of Release Sites: 1.

Release Activity: 23rdAve 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	18.94 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	5.19E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:49                      RELEASE ACTIVITY: 23rdAve 365 dy  
 FACILITY NAME: PHOENIX CITY OF  
 FACILITY LOCATION: PHOENIX AZ 850096499  
 RECEIVING WATER NAME: SALT R  
 REACH NUMBER: 15060106001          FACILITY ON REACH: No    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: AZ0020559          EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	365.	0.0519	5.19E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	865.50	572.26	381.28	381.28	NA
CONCENTRATION (µg/L)	6.00E-02	9.07E-02	0.14	0.14	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.30E-07 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.54E-05 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	3.44E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:





INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:50

Number of Release Sites: 1.

Release Activity: 23rdAve 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	19.00 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.95 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:50                      RELEASE ACTIVITY: 23rdAve 20 dy  
 FACILITY NAME: PHOENIX CITY OF  
 FACILITY LOCATION: PHOENIX AZ 850096499  
 RECEIVING WATER NAME: SALT R  
 REACH NUMBER: 15060106001      FACILITY ON REACH: No      DISCHARGE TYPE: Direct  
 NPDES PERMIT #: AZ0020559      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.95	0.95	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	865.50	572.26	381.28	381.28	NA
CONCENTRATION (µg/L)	1.10	1.66	2.49	2.49	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	3.31E-07 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	2.54E-05 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	6.29E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:51

Number of Release Sites: 1.

Release Activity: Sunnyside 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.66 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	4.54E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:51                      RELEASE ACTIVITY: Sunnyside 365 dy  
 FACILITY NAME: SUNNYSIDE CITY OF  
 FACILITY LOCATION: SUNNYSIDE WA 989442206  
 RECEIVING WATER NAME: YAKIMA R  
 REACH NUMBER: 17030003005          FACILITY ON REACH: No    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WA0020991          EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	365.	0.00454	4.54E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	3427.34	1090.43	743.20	601.94	NA
CONCENTRATION (µg/L)	1.32E-03	4.16E-03	6.11E-03	7.54E-03	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	7.29E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	5.60E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.58E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:52

Number of Release Sites: 1.

Release Activity: Sunnyside 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.66 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	8.29E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:52                      RELEASE ACTIVITY: Sunnyside 20 dy  
 FACILITY NAME: SUNNYSIDE CITY OF  
 FACILITY LOCATION: SUNNYSIDE WA 989442206  
 RECEIVING WATER NAME: YAKIMA R  
 REACH NUMBER: 17030003005          FACILITY ON REACH: No    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: WA0020991          EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.0829	8.29E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	3427.34	1090.43	743.20	601.94	NA
CONCENTRATION (µg/L)	2.42E-02	7.60E-02	0.11	0.14	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	7.29E-09 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	5.61E-07 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	2.88E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:





INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:53

Number of Release Sites: 1.

Release Activity: AguaNueva 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.17 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	3.20E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:53                      RELEASE ACTIVITY: AguaNueva 365 dy  
 FACILITY NAME: PIMA CNTY WASTEWATER MGMT  
 FACILITY LOCATION: TUCSON AZ 857056915  
 RECEIVING WATER NAME: SANTA CRUZ R  
 REACH NUMBER: 15050301003              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: AZ0020923              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	365.	0.0032	3.20E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	144.13	171.86	109.76	109.76	NA
CONCENTRATION (µg/L)	2.22E-02	1.86E-02	2.92E-02	2.92E-02	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.22E-07 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	9.39E-06 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	7.05E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:54

Number of Release Sites: 1.

Release Activity: AguaNueva 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.17 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	5.84E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL EXPOSURE REVIEW REPORT

Chemical ID: DCM WWTP 00

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:54                      RELEASE ACTIVITY: AguaNueva 20 dy  
 FACILITY NAME: PIMA CNTY WASTEWATER MGMT  
 FACILITY LOCATION: TUCSON AZ 857056915  
 RECEIVING WATER NAME: SANTA CRUZ R  
 REACH NUMBER: 15050301003              FACILITY ON REACH: Yes    DISCHARGE TYPE: Direct  
 NPDES PERMIT #: AZ0020923              EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.0584	5.84E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	144.13	171.86	109.76	109.76	NA
CONCENTRATION (µg/L)	0.41	0.34	0.53	0.53	NA

DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES				
Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	1.22E-07 mg/kg/day		0.00 mg/kg/day	
LADC <sub>pot</sub>	9.39E-06 mg/L		0.00 mg/kg	
Acute				
ADR <sub>pot</sub>	1.29E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:55

Number of Release Sites: 1.

Release Activity: Port 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.69 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	1.89E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 55                                      Number of Sites: 1                                      RELEASE ACTIVITY: Port 365 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	365.	0.00189	1.89E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	6.56E-03	1.53E-02	2.42E-02	2.86E-02
ALL	10	39.60	13.29	7.76	7.57	4.77E-02	0.14	0.24	0.25

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	3.61E-08	2.62E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	2.78E-06	2.02E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	5.78E-07	5.39E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 55

RELEASE ACTIVITY: Port 365 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	365.00	1.89E-03	0.00	High
151.00	0	0	365.00	1.89E-03	0.00	High
1800.00	0	0	365.00	1.89E-03	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:56

Number of Release Sites: 1.

Release Activity: Port 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.69 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	3.45E-02 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 56                                      Number of Sites: 1                                      RELEASE ACTIVITY:Port 20 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.0345	3.45E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	0.12	0.28	0.44	0.52
ALL	10	39.60	13.29	7.76	7.57	0.87	2.60	4.45	4.56

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	3.61E-08	2.63E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	2.78E-06	2.02E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	1.06E-05	9.83E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 56

RELEASE ACTIVITY: Port 20 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	20.00	3.45E-02	0.00	High
151.00	0	0	20.00	3.45E-02	0.00	High
1800.00	0	0	20.00	3.45E-02	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:57

Number of Release Sites: 1.

Release Activity: Apache 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.11 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	3.07E-04 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 57                                      Number of Sites: 1                                      RELEASE ACTIVITY: Apache  
365 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	365.	0.00031	3.07E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	1.07E-03	2.48E-03	3.93E-03	4.65E-03
ALL	10	39.60	13.29	7.76	7.57	7.75E-03	2.31E-02	3.96E-02	4.06E-02

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	5.86E-09	4.26E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	4.51E-07	3.28E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	9.39E-08	8.75E-07	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 57

RELEASE ACTIVITY: Apache 365 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	365.00	3.07E-04	0.00	High
151.00	0	0	365.00	3.07E-04	0.00	High
1800.00	0	0	365.00	3.07E-04	0.00	High



INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:58

Number of Release Sites: 1.

Release Activity: Apache 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.11 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	5.60E-03 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 58                                      Number of Sites: 1                                      RELEASE ACTIVITY: Apache  
20 dy

SIC-CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

SIC-CODE (S): subset of 4952                                      EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.0056	5.60E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	288.00	123.84	78.18	66.05	1.94E-02	4.52E-02	7.16E-02	8.48E-02
ALL	10	39.60	13.29	7.76	7.57	0.14	0.42	0.72	0.74

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD <sub>pot</sub>	5.86E-09	4.26E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC <sub>pot</sub>	4.51E-07	3.28E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR <sub>pot</sub>	1.71E-06	1.60E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: DCM WWTP 00

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 58

RELEASE ACTIVITY: Apache 20 dy

SIC CODE DESCRIPTION: POTW (Indust., includes POTWs which receive ind. disch.)

ASSOCIATED SIC CODES: subset of 4952

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
90.00	0	0	20.00	5.60E-03	0.00	High
151.00	0	0	20.00	5.60E-03	0.00	High
1800.00	0	0	20.00	5.60E-03	0.00	High