



United States
Environmental Protection Agency

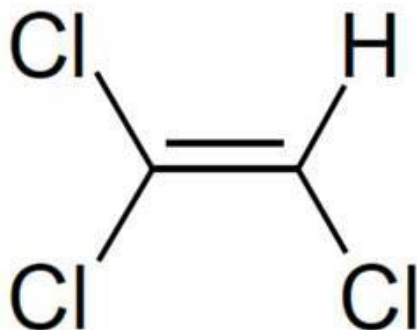
Office of Chemical Safety and
Pollution Prevention

Final Risk Evaluation for Trichloroethylene

Supplemental Information File:

Aquatic Exposure Modeling Outputs from E-FAST

CASRN: 79-01-6



November 2020

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MANUFACTURING

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:4

Number of Release Sites: 1.

Release Activity: Axiall 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	444.50 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	1.27 (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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:4 RELEASE ACTIVITY: Axiall 350 dy

FACILITY NAME: GEORGIA-GULF-CHEMICALS & VINYL

FACILITY LOCATION: PLAQUEMINE LA 70764

RECEIVING WATER NAME: MISSISSIPPI R

REACH NUMBER: 08070100007 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: LA0007129 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	350.	1.27	1.27	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)	1.56E-03	4.27E-03	5.14E-03	6.61E-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 _{pot}	8.25E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	6.34E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.62E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 4 RELEASE ACTIVITY: Axiall 350 dy

FACILITY NAME: GEORGIA-GULF-CHEMICALS & VINYL

FACILITY LOCATION: PLAQUEMINE LA 70764

RECEIVING STREAM NAME: MISSISSIPPI R

REACH NUMBER: 08070100007 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: LA0007129 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):30.86

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 (%)
3.00	0	0	350.00	1.27	0.00
788.00	0	0	350.00	1.27	0.00
920.00	0	0	350.00	1.27	0.00
1.44E+04	0	0	350.00	1.27	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:2

Number of Release Sites: 1.

Release Activity: Axiall 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	443.00 (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:	22.15 (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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:2 RELEASE ACTIVITY: Axiall 20 dy

FACILITY NAME: GEORGIA-GULF-CHEMICALS & VINYL

FACILITY LOCATION: PLAQUEMINE LA 70764

RECEIVING WATER NAME: MISSISSIPPI R

REACH NUMBER: 08070100007 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: LA0007129 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	22.15	22.15	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)	2.73E-02	7.44E-02	8.97E-02	0.12	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 _{pot}	8.22E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	6.32E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.82E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 2 RELEASE ACTIVITY: Axiall 20 dy

FACILITY NAME: GEORGIA-GULF-CHEMICALS & VINYL

FACILITY LOCATION: PLAQUEMINE LA 70764

RECEIVING STREAM NAME: MISSISSIPPI R

REACH NUMBER: 08070100007 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: LA0007129 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):30.86

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 (%)
3.00	0	0	20.00	22.15	0.00
788.00	0	0	20.00	22.15	0.00
920.00	0	0	20.00	22.15	0.00
1.44E+04	0	0	20.00	22.15	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:7

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:	24.15 (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:	6.90E-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: TCE-81

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

SCENARIO #: 7 Number of Sites: 1 RELEASE ACTIVITY: Olin 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)
81.00	350.	0.069	1.31E-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	2825.61	935.49	634.16	514.20	4.64E-03	1.40E-02	2.07E-02	2.55E-02
ALL	10	50.57	9.38	5.41	4.53	0.26	1.40	2.42	2.89

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 _{pot}	2.45E-08	1.37E-06	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	1.88E-06	1.05E-04	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	5.31E-07	5.29E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

SIC CODE EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO #: 7 RELEASE ACTIVITY: Olin 350 dy

SIC CODE DESCRIPTION: Organic Chemicals Manufacture

ASSOCIATED SIC CODES: 2865,2869

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
3.00	10	37	350.00	6.90E-02	81.00	High
788.00	0	0	350.00	6.90E-02	81.00	High
920.00	0	0	350.00	6.90E-02	81.00	High
1.44E+04	0	0	350.00	6.90E-02	81.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:4

Number of Release Sites: 1.

Release Activity: Olin 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	24.00 (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:	1.20 (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: TCE-81

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

SCENARIO #: 4 Number of Sites: 1 RELEASE ACTIVITY: Olin 20 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)
81.00	20.	1.2	0.23	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	8.07E-02	0.24	0.36	0.44
ALL	10	50.57	9.38	5.41	4.53	4.51	24.31	42.14	50.33

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 _{pot}	2.43E-08	1.36E-06	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	1.87E-06	1.05E-04	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	9.23E-06	9.21E-04	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 4 RELEASE ACTIVITY: Olin 20 dy

SIC CODE DESCRIPTION: Organic Chemicals Manufacture

ASSOCIATED SIC CODES: 2865,2869

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
3.00	3	11	20.00	1.20	81.00	High
788.00	0	0	20.00	1.20	81.00	High
920.00	0	0	20.00	1.20	81.00	High
1.44E+04	0	0	20.00	1.20	81.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:8

Number of Release Sites: 1.

Release Activity: Solvents 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	5.25 (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:	1.50E-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: TCE-81

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

SCENARIO #: 8 Number of Sites: 1 RELEASE ACTIVITY:Solvents
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)
81.00	350.	0.015	2.85E-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	2825.61	935.49	634.16	514.20	1.01E-03	3.05E-03	4.49E-03	5.54E-03
ALL	10	50.57	9.38	5.41	4.53	5.64E-02	0.30	0.53	0.63

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 _{pot}	5.32E-09	2.97E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	4.09E-07	2.29E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	1.15E-07	1.15E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 8 RELEASE ACTIVITY: Solvents 350 dy

SIC CODE DESCRIPTION: Organic Chemicals Manufacture

ASSOCIATED SIC CODES: 2865,2869

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
3.00	5	17	350.00	1.50E-02	81.00	High
788.00	0	0	350.00	1.50E-02	81.00	High
920.00	0	0	350.00	1.50E-02	81.00	High
1.44E+04	0	0	350.00	1.50E-02	81.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:9

Number of Release Sites: 1.

Release Activity: Solvents 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	5.40 (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:	0.27 (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: TCE-81

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

SCENARIO #: 9 Number of Sites: 1 RELEASE ACTIVITY: Solvents
20 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)
81.00	20.	0.27	5.13E-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	2825.61	935.49	634.16	514.20	1.82E-02	5.48E-02	8.09E-02	9.98E-02
ALL	10	50.57	9.38	5.41	4.53	1.01	5.47	9.48	11.32

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 _{pot}	5.47E-09	3.06E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	4.21E-07	2.35E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	2.08E-06	2.07E-04	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 9 RELEASE ACTIVITY: Solvents 20 dy

SIC CODE DESCRIPTION: Organic Chemicals Manufacture

ASSOCIATED SIC CODES: 2865,2869

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
3.00	1	5	20.00	0.27	81.00	High
788.00	0	0	20.00	0.27	81.00	High
920.00	0	0	20.00	0.27	81.00	High
1.44E+04	0	0	20.00	0.27	81.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:5

Number of Release Sites: 1.

Release Activity: Solvents 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	5.25 (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:	1.50E-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: TCE-0%

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

SCENARIO #: 5 Number of Sites: 1 RELEASE ACTIVITY: Solvents
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)
0.00	350.	0.015	1.50E-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	2825.61	935.49	634.16	514.20	5.31E-03	1.60E-02	2.37E-02	2.92E-02
ALL	10	50.57	9.38	5.41	4.53	0.30	1.60	2.77	3.31

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 _{pot}	2.80E-08	1.56E-06	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	2.15E-06	1.20E-04	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	6.07E-07	6.06E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 5 RELEASE ACTIVITY: Solvents 350 dy

SIC CODE DESCRIPTION: Organic Chemicals Manufacture

ASSOCIATED SIC CODES: 2865,2869

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
3.00	11	40	350.00	1.50E-02	0.00	High
788.00	0	0	350.00	1.50E-02	0.00	High
920.00	0	0	350.00	1.50E-02	0.00	High
1.44E+04	0	0	350.00	1.50E-02	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:6

Number of Release Sites: 1.

Release Activity: Solvents 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	5.40 (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:	0.27 (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: TCE-0%

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

SCENARIO #: 6

Number of Sites: 1

RELEASE ACTIVITY: Solvents
20 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)
0.00	20.	0.27	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	2825.61	935.49	634.16	514.20	9.56E-02	0.29	0.43	0.53
ALL	10	50.57	9.38	5.41	4.53	5.34	28.78	49.91	59.60

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 _{pot}	2.88E-08	1.61E-06	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	2.22E-06	1.24E-04	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	1.09E-05	1.09E-03	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 6 RELEASE ACTIVITY: Solvents 20 dy

SIC CODE DESCRIPTION: Organic Chemicals Manufacture

ASSOCIATED SIC CODES: 2865,2869

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
3.00	3	12	20.00	0.27	0.00	High
788.00	0	0	20.00	0.27	0.00	High
920.00	0	0	20.00	0.27	0.00	High
1.44E+04	0	0	20.00	0.27	0.00	High

PROCESSING AS A REACTANT

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 18

Number of Release Sites: 440.

Release Activity: 440 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	770.00 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	5.00E-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: TCE-81

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

SCENARIO #: 18

Number of Sites: 440

RELEASE ACTIVITY: 440 350 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)
81.00	350.	0.005	9.50E-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	3.36E-04	1.02E-03	1.50E-03	1.85E-03
ALL	10	50.57	9.38	5.41	4.53	1.88E-02	0.10	0.18	0.21

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 _{pot}	1.77E-09	9.91E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	1.36E-07	7.62E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	3.85E-08	3.84E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 18

RELEASE ACTIVITY: 440 350 dy

SIC CODE DESCRIPTION: Organic Chemicals Manufacture

ASSOCIATED SIC CODES: 2865,2869

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
3.00	1	5	350.00	5.00E-03	81.00	High
788.00	0	0	350.00	5.00E-03	81.00	High
920.00	0	0	350.00	5.00E-03	81.00	High
1.44E+04	0	0	350.00	5.00E-03	81.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE 81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:2

Number of Release Sites: 440.

Release Activity: 440 Unknown 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	783.20	N/A	N/A	N/A

	(kg/yr)	(kg/yr)	(kg/yr)	(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:	8.90E-02	N/A/0.00	N/A	N/A

	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)
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Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE 81

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

SCENARIO #: 2

Number of Sites: 440

RELEASE ACTIVITY:440
Unknown 20 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)
81.00	20.	0.089	1.69E-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	2825.61	935.49	634.16	514.20	5.98E-03	1.81E-02	2.67E-02	3.29E-02
ALL	10	50.57	9.38	5.41	4.53	0.33	1.80	3.13	3.73

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 _{pot}	1.80E-09	1.01E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	1.39E-07	7.75E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	6.85E-07	6.83E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE 81

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 2 RELEASE ACTIVITY: 440 Unknown 20 dy

SIC CODE DESCRIPTION: Organic Chemicals Manufacture

ASSOCIATED SIC CODES: 2865,2869

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
3.00	1	2	20.00	8.90E-02	81.00	High
788.00	0	0	20.00	8.90E-02	81.00	High
920.00	0	0	20.00	8.90E-02	81.00	High
1.44E+04	0	0	20.00	8.90E-02	81.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 14

Number of Release Sites: 440.

Release Activity: 440 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	770.00	N/A	N/A	N/A

(kg/yr)

(kg/yr)

(kg/yr)

(kg/yr)

Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	5.00E-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: TCE-0%

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

SCENARIO #: 14 Number of Sites: 440 RELEASE ACTIVITY:440 350 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)
0.00	350.	0.005	5.00E-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	2825.61	935.49	634.16	514.20	1.77E-03	5.34E-03	7.88E-03	9.72E-03
ALL	10	50.57	9.38	5.41	4.53	9.89E-02	0.53	0.92	1.10

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 _{pot}	9.33E-09	5.21E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	7.18E-07	4.01E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	2.02E-07	2.02E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 14

RELEASE ACTIVITY: 440 350 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
3.00	6	23	350.00	5.00E-03	0.00	High
788.00	0	0	350.00	5.00E-03	0.00	High
920.00	0	0	350.00	5.00E-03	0.00	High
1.44E+04	0	0	350.00	5.00E-03	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:4

Number of Release Sites: 440.

Release Activity: 440 Unknown 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	783.20	N/A	N/A	N/A

(kg/yr)	(kg/yr)	(kg/yr)	(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:	8.90E-02	N/A/0.00	N/A	N/A

(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)
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Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

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

SCENARIO #: 4 Number of Sites: 440 RELEASE ACTIVITY:440
Unknown 20 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)
0.00	20.	0.089	8.90E-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	2825.61	935.49	634.16	514.20	3.15E-02	9.51E-02	0.14	0.17
ALL	10	50.57	9.38	5.41	4.53	1.76	9.49	16.45	19.65

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 _{pot}	9.49E-09	5.30E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	7.30E-07	4.08E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	3.60E-06	3.59E-04	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 4

RELEASE ACTIVITY: 440 Unknown 20 dy

SIC CODE DESCRIPTION: Organic Chemicals Manufacture

ASSOCIATED SIC CODES: 2865,2869

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
3.00	2	7	20.00	8.90E-02	0.00	High
788.00	0	0	20.00	8.90E-02	0.00	High
920.00	0	0	20.00	8.90E-02	0.00	High
1.44E+04	0	0	20.00	8.90E-02	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 15

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:	5.95 (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:	1.70E-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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 15

RELEASE ACTIVITY: Arkema 350 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.	350.	0.017	1.70E-02	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)	1.97E-04	5.65E-04	7.37E-04	9.32E-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 _{pot}	1.04E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	8.00E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.14E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 15 RELEASE ACTIVITY: Arkema 350 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 (%)
3.00	0	0	350.00	1.70E-02	0.00
788.00	0	0	350.00	1.70E-02	0.00
920.00	0	0	350.00	1.70E-02	0.00
1.44E+04	0	0	350.00	1.70E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

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:	5.90 (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:	0.29 (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: TCE

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.	0.295	0.29	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)	3.42E-03	9.80E-03	1.28E-02	1.62E-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 _{pot}	1.03E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	7.94E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	3.71E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

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 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 ($\mu\text{g/L}$)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
3.00	0	0	20.00	0.29	0.00
788.00	0	0	20.00	0.29	0.00
920.00	0	0	20.00	0.29	0.00
1.44E+04	0	0	20.00	0.29	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 18

Number of Release Sites: 1.

Release Activity: Honey 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	4.48 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	1.28E-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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:18 RELEASE ACTIVITY: Honey 350 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.	350.	0.0128	1.28E-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)	1.58E-05	4.30E-05	5.18E-05	6.66E-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 _{pot}	8.31E-11 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	6.39E-09 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.63E-09 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 18

RELEASE ACTIVITY: Honey 350 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 (%)
3.00	0	0	350.00	1.28E-02	0.00
788.00	0	0	350.00	1.28E-02	0.00
920.00	0	0	350.00	1.28E-02	0.00
1.44E+04	0	0	350.00	1.28E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 13

Number of Release Sites: 1.

Release Activity: Honeywell 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	4.48	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:	0.22	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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:13 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.	0.224	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)	2.76E-04	7.53E-04	9.07E-04	1.17E-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 _{pot}	8.31E-11 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	6.39E-09 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.85E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 19

Number of Release Sites: 1.

Release Activity: Praxair 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	0.59 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)

Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	1.69E-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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 19	RELEASE ACTIVITY: Praxair 350 dy	
FACILITY NAME: PRAXAIR INC		
FACILITY LOCATION: TONAWANDA NY 14151		
RECEIVING WATER NAME: NIAGARA R		
REACH NUMBER: 04120104008	FACILITY ON REACH: No	DISCHARGE TYPE: Direct
NPDES PERMIT #: NY0000281	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	0.00169	1.69E-03	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	169.00
CHRONIC SCENARIO	1.00	169.00

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:45

Number of Release Sites: 1.

Release Activity: Praxair 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.60 (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:	3.00E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 45	RELEASE ACTIVITY: Praxair 20 dy	
FACILITY NAME: PRAXAIR INC		
FACILITY LOCATION: TONAWANDA NY 14151		
RECEIVING WATER NAME: NIAGARA R		
REACH NUMBER: 04120104008	FACILITY ON REACH: No	DISCHARGE TYPE: Direct
NPDES PERMIT #: NY0000281	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	0.03	3.00E-02	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	3000.00
CHRONIC SCENARIO	1.00	3000.00

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

Lakes Comments:

OTVD

Includes releases for open-top vapor degreasing, closed-loop degreasing, conveyORIZED degreasing, web degreasing, cold cleaning, and metalworking fluids

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:3

Number of Release Sites: 1.

Release Activity: Texas 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.30 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	5.00E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:3 RELEASE ACTIVITY: Texas 260 dy
 FACILITY NAME: TEXAS INSTRUMENTS INC.
 FACILITY LOCATION: ATTLEBORO MA 02703
 RECEIVING WATER NAME: SEEKONK R
 REACH NUMBER: 01090004023 FACILITY ON REACH: No DISCHARGE TYPE: Direct
 NPDES PERMIT #: MA0001791 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.005	5.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	995.05	404.05	265.93	216.94	NA
CONCENTRATION (µg/L)	5.02E-03	1.24E-02	1.88E-02	2.30E-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 _{pot}	1.97E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.51E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	4.69E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 3 RELEASE ACTIVITY: Texas 260 dy

FACILITY NAME: TEXAS INSTRUMENTS INC.

FACILITY LOCATION: ATTLEBORO MA 02703

RECEIVING STREAM NAME: SEEKONK R

REACH NUMBER: 01090004023 FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: MA0001791 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): 2322.27 7q10 FLOW (MLD): 265.93 EFFLUENT FLOW (MLD): 7.06

RESULTS					
COC ($\mu\text{g}/\text{L}$)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
3.00	0	0	260.00	5.00E-03	0.00
788.00	0	0	260.00	5.00E-03	0.00
920.00	0	0	260.00	5.00E-03	0.00
1.44E+04	0	0	260.00	5.00E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:4

Number of Release Sites: 1.

Release Activity: Texas 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.34 (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:	6.70E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:4 RELEASE ACTIVITY: Texas 20 dy

FACILITY NAME: TEXAS INSTRUMENTS INC.

FACILITY LOCATION: ATTLEBORO MA 02703

RECEIVING WATER NAME: SEEKONK R

REACH NUMBER: 01090004023 FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT #: MA0001791 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.067	6.70E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	995.05	404.05	265.93	216.94	NA
CONCENTRATION (µg/L)	6.73E-02	0.17	0.25	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 _{pot}	2.03E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.56E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	6.28E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 4 RELEASE ACTIVITY: Texas 20 dy
FACILITY NAME: TEXAS INSTRUMENTS INC.
FACILITY LOCATION: ATTLEBORO MA 02703
RECEIVING STREAM NAME: SEEKONK R
REACH NUMBER: 01090004023 FACILITY ON REACH: No DISCHARGE TYPE: Direct
NPDES PERMIT NUMBER: MA0001791 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): 2322.27 7q10 FLOW (MLD): 265.93 EFFLUENT FLOW (MLD):7.06

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 (%)
3.00	0	0	20.00	6.70E-02	0.00
788.00	0	0	20.00	6.70E-02	0.00
920.00	0	0	20.00	6.70E-02	0.00
1.44E+04	0	0	20.00	6.70E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:5

Number of Release Sites: 1.

Release Activity: Accellent 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.52 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	2.00E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:5 RELEASE ACTIVITY: Accellent 260 dy
 FACILITY NAME: UNIFORM TUBE INC
 FACILITY LOCATION: COLLEGEVILLE PA 19426
 RECEIVING WATER NAME: PERKIOMEN CR
 REACH NUMBER: 02040203004 FACILITY ON REACH: No DISCHARGE TYPE: Direct
 NPDES PERMIT #: PA0042617 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.002	2.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	281.27	75.79	47.03	38.83	NA
CONCENTRATION (µg/L)	7.11E-03	2.64E-02	4.25E-02	5.15E-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 _{pot}	2.79E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.14E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	9.99E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 5 RELEASE ACTIVITY: Accellent 260 dy

FACILITY NAME: UNIFORM TUBE INC

FACILITY LOCATION: COLLEGEVILLE PA 19426

RECEIVING STREAM NAME: PERKIOMEN CR

REACH NUMBER: 02040203004 FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: PA0042617 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): 1213.02 7q10 FLOW (MLD): 47.03 EFFLUENT FLOW
(MLD):6.00E-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 (%)
3.00	0	0	260.00	2.00E-03	0.00
788.00	0	0	260.00	2.00E-03	0.00
920.00	0	0	260.00	2.00E-03	0.00
1.44E+04	0	0	260.00	2.00E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:6

Number of Release Sites: 1.

Release Activity: Accellent 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.58 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	2.90E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:6 RELEASE ACTIVITY: Accellent 20 dy
 FACILITY NAME: UNIFORM TUBE INC
 FACILITY LOCATION: COLLEGEVILLE PA 19426
 RECEIVING WATER NAME: PERKIOMEN CR
 REACH NUMBER: 02040203004 FACILITY ON REACH: No DISCHARGE TYPE: Direct
 NPDES PERMIT #: PA0042617 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.029	2.90E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	281.27	75.79	47.03	38.83	NA
CONCENTRATION (µg/L)	0.10	0.38	0.62	0.75	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 _{pot}	3.11E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.39E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.45E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 6 RELEASE ACTIVITY: Accellent 20 dy
 FACILITY NAME: UNIFORM TUBE INC
 FACILITY LOCATION: COLLEGEVILLE PA 19426
 RECEIVING STREAM NAME: PERKIOMEN CR
 REACH NUMBER: 02040203004 FACILITY ON REACH: No DISCHARGE TYPE: Direct
 NPDES PERMIT NUMBER: PA0042617 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): 1213.02 7q10 FLOW (MLD): 47.03 EFFLUENT FLOW (MLD):6.00E-02

RESULTS					
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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 (%)
3.00	0	0	20.00	2.90E-02	0.00
788.00	0	0	20.00	2.90E-02	0.00
920.00	0	0	20.00	2.90E-02	0.00
1.44E+04	0	0	20.00	2.90E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:7

Number of Release Sites: 1.

Release Activity: Ametek 260 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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	1.00E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:7 RELEASE ACTIVITY: Ametek 260 dy
 FACILITY NAME: PENNRIDGE WWT AUTH
 FACILITY LOCATION: SELLERSVILLE PA 189600031
 RECEIVING WATER NAME: PERKIOMEN CR E BR
 REACH NUMBER: 02040203005 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: PA0020460 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.001	1.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	88.62	27.01	16.16	13.44	NA
CONCENTRATION (µg/L)	1.13E-02	3.70E-02	6.19E-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 _{pot}	4.42E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	3.40E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.40E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 7 RELEASE ACTIVITY: Ametek 260 dy

FACILITY NAME: PENNRIDGE WWT AUTH

FACILITY LOCATION: SELLERSVILLE PA 189600031

RECEIVING STREAM NAME: PERKIOMEN CR E BR

REACH NUMBER: 02040203005 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: PA0020460 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): 367.12 7q10 FLOW (MLD): 16.16 EFFLUENT FLOW (MLD): 10.29

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 (%)
3.00	0	0	260.00	1.00E-03	0.00
788.00	0	0	260.00	1.00E-03	0.00
920.00	0	0	260.00	1.00E-03	0.00
1.44E+04	0	0	260.00	1.00E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:8

Number of Release Sites: 1.

Release Activity: Ametek 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.22 (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:	1.10E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:8

RELEASE ACTIVITY: Ametek 20 dy

FACILITY NAME: PENNRIDGE WWT AUTH

FACILITY LOCATION: SELLERSVILLE PA 189600031

RECEIVING WATER NAME: PERKIOMEN CR E BR

REACH NUMBER: 02040203005

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: PA0020460

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.011	1.10E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	88.62	27.01	16.16	13.44	NA
CONCENTRATION (µg/L)	0.12	0.41	0.68	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 _{pot}	3.74E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.88E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.54E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 8

RELEASE ACTIVITY: Ametek 20 dy

FACILITY NAME: PENNRIDGE WWT AUTH

FACILITY LOCATION: SELLERSVILLE PA 189600031

RECEIVING STREAM NAME: PERKIOMEN CR E BR

REACH NUMBER: 02040203005

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: PA0020460

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): 367.12

7q10 FLOW (MLD): 16.16

EFFLUENT FLOW (MLD):10.29

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 (%)
3.00	0	0	20.00	1.10E-02	0.00
788.00	0	0	20.00	1.10E-02	0.00
920.00	0	0	20.00	1.10E-02	0.00
1.44E+04	0	0	20.00	1.10E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:9

Number of Release Sites: 1.

Release Activity: Atk 260 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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	5.00E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 9 RELEASE ACTIVITY: Atk 260 dy

FACILITY NAME: ATK TACTICAL SYSTEMS CO. LLC

FACILITY LOCATION: ROCKET CENTER WV 26726

RECEIVING WATER NAME: POTOMAC R N BR

REACH NUMBER: 02070002018 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: WV0020371 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.0005	5.00E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	747.42	248.73	160.93	131.75	NA
CONCENTRATION (µg/L)	6.69E-04	2.01E-03	3.11E-03	3.80E-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 _{pot}	2.62E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.02E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	7.61E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 10

Number of Release Sites: 1.

Release Activity: Atk 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.12 (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:	6.00E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:10

RELEASE ACTIVITY: Atk 20 dy

FACILITY NAME: ATK TACTICAL SYSTEMS CO. LLC

FACILITY LOCATION: ROCKET CENTER WV 26726

RECEIVING WATER NAME: POTOMAC R N BR

REACH NUMBER: 02070002018

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: WV0020371

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.006	6.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	747.42	248.73	160.93	131.75	NA
CONCENTRATION (µg/L)	8.03E-03	2.41E-02	3.73E-02	4.55E-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 _{pot}	2.42E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.86E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	9.14E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 10 RELEASE ACTIVITY: Atk 20 dy

FACILITY NAME: ATK TACTICAL SYSTEMS CO. LLC

FACILITY LOCATION: ROCKET CENTER WV 26726

RECEIVING STREAM NAME: POTOMAC R N BR

REACH NUMBER: 02070002018 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: WV0020371 GAGING STATION ID: 01600000

GAGING STATION PERIOD OF RECORD: 01/01/66 - 05/21/89 GAGING STATION NUMBER OF OBSERVATIONS: 7406.00 NUMBER OF STATIONS ON REACH: 1

50 %ile FLOW (MLD): 1274.36 10 %ile FLOW (MLD): 391.36 EFFLUENT FLOW (MLD):0.18

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 (%)
3.00	0	0	20.00	6.00E-03	0.00
788.00	0	0	20.00	6.00E-03	0.00
920.00	0	0	20.00	6.00E-03	0.00
1.44E+04	0	0	20.00	6.00E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 1

Number of Release Sites: 1.

Release Activity: NASA 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	508.80	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:	25.44	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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 1	RELEASE ACTIVITY: NASA 20 dy	
FACILITY NAME: AIR PROD & CHEM INC-NEW ORLEAN		
FACILITY LOCATION: NEW ORLEANS LA 70129		
RECEIVING WATER NAME: INTRACOASTAL WATERWAY		
REACH NUMBER: 08090203008	FACILITY ON REACH: No	DISCHARGE TYPE: Direct
NPDES PERMIT #: LA0003280	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.	2.56	25.44	25.44	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	9937.50
CHRONIC SCENARIO	1.00	9937.50

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:2

Number of Release Sites: 1.

Release Activity: NASA 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	509.60 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	1.96 (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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 2	RELEASE ACTIVITY: NASA 260 dy	
FACILITY NAME: AIR PROD & CHEM INC-NEW ORLEAN		
FACILITY LOCATION: NEW ORLEANS LA 70129		
RECEIVING WATER NAME: INTRACOASTAL WATERWAY		
REACH NUMBER: 08090203008	FACILITY ON REACH: No	DISCHARGE TYPE: Direct
NPDES PERMIT #: LA0003280	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.	260.	2.56	1.96	1.96	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	765.63
CHRONIC SCENARIO	1.00	765.63

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:3

Number of Release Sites: 1.

Release Activity: GM 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	34.24	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:	1.71	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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:3

RELEASE ACTIVITY: GM 20 dy

FACILITY NAME: DELPHI HARRISON THERMAL SYS

FACILITY LOCATION: LOCKPORT NY 14094

RECEIVING WATER NAME: EIGHTEENMILE CR E BR

REACH NUMBER: 04130001018

FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT #: NY0000558

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	1.71	1.71	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	41.37	20.01	11.85	11.85	NA
CONCENTRATION (µg/L)	41.38	85.54	144.47	144.47	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 _{pot}	1.25E-05 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	9.59E-04 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	3.24E-03 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 3

RELEASE ACTIVITY: GM 20 dy

FACILITY NAME: DELPHI HARRISON THERMAL SYS

FACILITY LOCATION: LOCKPORT NY 14094

RECEIVING STREAM NAME: EIGHTEENMILE CR E BR

REACH NUMBER: 04130001018

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NY0000558

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): 105.35

7q10 FLOW (MLD): 11.85

EFFLUENT FLOW (MLD):11.85

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 (%)
3.00	5	20	20.00	1.71	0.00
788.00	0	0	20.00	1.71	0.00
920.00	0	0	20.00	1.71	0.00
1.44E+04	0	0	20.00	1.71	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:4

Number of Release Sites: 1.

Release Activity: GM 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	33.80 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:4

RELEASE ACTIVITY: GM 260 dy

FACILITY NAME: DELPHI HARRISON THERMAL SYS

FACILITY LOCATION: LOCKPORT NY 14094

RECEIVING WATER NAME: EIGHTEENMILE CR E BR

REACH NUMBER: 04130001018

FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT #: NY0000558

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.13	0.13	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	41.37	20.01	11.85	11.85	NA
CONCENTRATION (µg/L)	3.14	6.50	10.97	10.97	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 _{pot}	1.23E-05 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	9.47E-04 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.46E-04 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 4

RELEASE ACTIVITY: GM 260 dy

FACILITY NAME: DELPHI HARRISON THERMAL SYS

FACILITY LOCATION: LOCKPORT NY 14094

RECEIVING STREAM NAME: EIGHTEENMILE CR E BR

REACH NUMBER: 04130001018

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NY0000558

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): 105.35

7q10 FLOW (MLD): 11.85

EFFLUENT FLOW (MLD):11.85

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 (%)
3.00	32	117	260.00	0.13	0.00
788.00	0	0	260.00	0.13	0.00
920.00	0	0	260.00	0.13	0.00
1.44E+04	0	0	260.00	0.13	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:5

Number of Release Sites: 1.

Release Activity: Akebono 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	17.94	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:	0.90	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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:5

RELEASE ACTIVITY: Akebono 20 dy

FACILITY NAME: ELIZABETHTOWN STP

FACILITY LOCATION: ELIZABETHTOWN KY 42701

RECEIVING WATER NAME: VALLEY CR

REACH NUMBER: 05110001048

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: KY0022039

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.897	0.90	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	60.74	24.13	14.38	11.97	NA
CONCENTRATION (µg/L)	14.77	37.18	62.38	74.92	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 _{pot}	4.45E-06 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	3.42E-04 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.41E-03 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 5

RELEASE ACTIVITY: Akebono 20 dy

FACILITY NAME: ELIZABETHTOWN STP

FACILITY LOCATION: ELIZABETHTOWN KY 42701

RECEIVING STREAM NAME: VALLEY CR

REACH NUMBER: 05110001048

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: KY0022039

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): 189.29

7q10 FLOW (MLD): 14.38

EFFLUENT FLOW (MLD):6.29

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 (%)
3.00	4	16	20.00	0.90	0.00
788.00	0	0	20.00	0.90	0.00
920.00	0	0	20.00	0.90	0.00
1.44E+04	0	0	20.00	0.90	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:6

Number of Release Sites: 1.

Release Activity: Akebono 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	18.20 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	7.00E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:6 RELEASE ACTIVITY: Akebono 260 dy
 FACILITY NAME: ELIZABETHTOWN STP
 FACILITY LOCATION: ELIZABETHTOWN KY 42701
 RECEIVING WATER NAME: VALLEY CR
 REACH NUMBER: 05110001048 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: KY0022039 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.07	7.00E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	60.74	24.13	14.38	11.97	NA
CONCENTRATION (µg/L)	1.15	2.90	4.87	5.85	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 _{pot}	4.52E-06 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	3.47E-04 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.10E-04 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 6	RELEASE ACTIVITY: Akebono 260 dy	
FACILITY NAME: ELIZABETHTOWN STP		
FACILITY LOCATION: ELIZABETHTOWN KY 42701		
RECEIVING STREAM NAME: VALLEY CR		
REACH NUMBER: 05110001048	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT NUMBER: KY0022039	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): 189.29	7q10 FLOW (MLD): 14.38	EFFLUENT FLOW (MLD): 6.29

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 (%)
3.00	7	27	260.00	7.00E-02	0.00
788.00	0	0	260.00	7.00E-02	0.00
920.00	0	0	260.00	7.00E-02	0.00
1.44E+04	0	0	260.00	7.00E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:7

Number of Release Sites: 1.

Release Activity: Delphi 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	9.30 (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:	0.47 (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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 7 RELEASE ACTIVITY: Delphi 20 dy

FACILITY NAME: GMC-DELPHI HARRISON

FACILITY LOCATION: MORaine OH 45439

RECEIVING WATER NAME: GREAT MIAMI R

REACH NUMBER: 05080002009 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: OH0009431 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.465	0.47	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	3Q5	7Q10	1Q10	PLANT
FLOW (MLD)	2284.23	789.03	531.69	431.64	NA
CONCENTRATION (µg/L)	0.20	0.59	0.87	1.08	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 _{pot}	6.13E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	4.72E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.23E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 7

RELEASE ACTIVITY: Delphi 20 dy

FACILITY NAME: GMC-DELPHI HARRISON

FACILITY LOCATION: MORAIN E OH 45439

RECEIVING STREAM NAME: GREAT MIAMI R

REACH NUMBER: 05080002009

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: OH0009431

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): 8.19

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 (%)
3.00	0	0	20.00	0.47	0.00
788.00	0	0	20.00	0.47	0.00
920.00	0	0	20.00	0.47	0.00
1.44E+04	0	0	20.00	0.47	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:8

Number of Release Sites: 1.

Release Activity: Delphi 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	10.40 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	4.00E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:8

RELEASE ACTIVITY: Delphi 260 dy

FACILITY NAME: GMC-DELPHI HARRISON

FACILITY LOCATION: MORaine OH 45439

RECEIVING WATER NAME: GREAT MIAMI R

REACH NUMBER: 05080002009

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: OH0009431

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.04	4.00E-02	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)	1.75E-02	5.07E-02	7.52E-02	9.27E-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 _{pot}	6.86E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	5.28E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.92E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 8 RELEASE ACTIVITY: Delphi 260 dy
FACILITY NAME: GMC-DELPHI HARRISON
FACILITY LOCATION: MORaine OH 45439
RECEIVING STREAM NAME: GREAT MIAMI R
REACH NUMBER: 05080002009 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
NPDES PERMIT NUMBER: OH0009431 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): 8.19

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 (%)
3.00	0	0	260.00	4.00E-02	0.00
788.00	0	0	260.00	4.00E-02	0.00
920.00	0	0	260.00	4.00E-02	0.00
1.44E+04	0	0	260.00	4.00E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 11

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:	6.68 (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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 11 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.	0.334	0.33	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)	7.03E-03	2.49E-02	3.35E-02	4.21E-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 _{pot}	2.12E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.63E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	9.44E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 11

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 (%)
3.00	0	0	20.00	0.33	0.00
788.00	0	0	20.00	0.33	0.00
920.00	0	0	20.00	0.33	0.00
1.44E+04	0	0	20.00	0.33	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 12

Number of Release Sites: 1.

Release Activity: Chemours 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	7.80 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	3.00E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 12 RELEASE ACTIVITY: Chemours 260 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.	260.	0.03	3.00E-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)	6.31E-04	2.24E-03	3.01E-03	3.78E-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 _{pot}	2.47E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.90E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	8.48E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 12

RELEASE ACTIVITY: Chemours 260 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 (%)
3.00	0	0	260.00	3.00E-02	0.00
788.00	0	0	260.00	3.00E-02	0.00
920.00	0	0	260.00	3.00E-02	0.00
1.44E+04	0	0	260.00	3.00E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:9

Number of Release Sites: 1.

Release Activity: Equistar 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	5.20 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	2.00E-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: TCE-0%

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

SCENARIO #: 9 Number of Sites: 1 RELEASE ACTIVITY: Equistar
260 dy

SIC-CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

SIC-CODE (S): 3315-3317,3351-3357,3463,3497 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	260.	0.02	2.00E-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	485.40	206.33	132.62	108.72	4.12E-02	9.69E-02	0.15	0.18
ALL	10	43.45	15.35	9.00	7.91	0.46	1.30	2.22	2.53

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 _{pot}	1.61E-07	1.80E-06	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	1.24E-05	1.39E-04	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	3.67E-06	4.93E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 9 RELEASE ACTIVITY: Equistar 260 dy

SIC CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

ASSOCIATED SIC CODES: 3315-3317,3351-3357,3463,3497

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
3.00	10	38	260.00	2.00E-02	0.00	High
788.00	0	1	260.00	2.00E-02	0.00	High
920.00	0	1	260.00	2.00E-02	0.00	High
1.44E+04	0	0	260.00	2.00E-02	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 1

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:	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 REVIEW EXPOSURE REPORT

Chemical ID: TCE

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

SCENARIO #: 1

Number of Sites: 1

RELEASE ACTIVITY: Equistar
20 dy

SIC-CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

SIC-CODE (S): 3315-3317,3351-3357,3463,3497

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.22	0.22	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	485.40	206.33	132.62	108.72	0.45	1.07	1.66	2.02
ALL	10	43.45	15.35	9.00	7.91	5.06	14.33	24.44	27.81

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 _{pot}	1.37E-07	1.53E-06	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	1.05E-05	1.17E-04	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	4.04E-05	5.43E-04	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1 RELEASE ACTIVITY: Equistar 20 dy

SIC CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

ASSOCIATED SIC CODES: 3315-3317,3351-3357,3463,3497

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
3.00	3	12	20.00	0.22	0.00	High
788.00	0	1	20.00	0.22	0.00	High
920.00	0	1	20.00	0.22	0.00	High
1.44E+04	0	0	20.00	0.22	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 17

Number of Release Sites: 1.

Release Activity: GE 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	2.56	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:	0.13	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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 17	RELEASE ACTIVITY: GE 20 dy	
FACILITY NAME: GENERAL ELECTRIC AIRCRAFT ENG.		
FACILITY LOCATION: LYNN MA 01910		
RECEIVING WATER NAME: ATLANTIC OCEAN		
REACH NUMBER: 01090001013	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: MA0003905	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.	235.54	0.128	0.13	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	0.54
CHRONIC SCENARIO	1.00	0.54

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 18

Number of Release Sites: 1.

Release Activity: GE 260 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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	1.00E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 18	RELEASE ACTIVITY: GE 260 dy	
FACILITY NAME: GENERAL ELECTRIC AIRCRAFT ENG.		
FACILITY LOCATION: LYNN MA 01910		
RECEIVING WATER NAME: ATLANTIC OCEAN		
REACH NUMBER: 01090001013	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: MA0003905	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.	260.	235.54	0.01	1.00E-02	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	4.25E-02
CHRONIC SCENARIO	1.00	4.25E-02

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:21

Number of Release Sites: 1.

Release Activity: Certa 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	2.14	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:	0.11	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: TCE

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

SCENARIO #: 21 Number of Sites: 1 RELEASE ACTIVITY: Certa 20 dy

SIC-CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

SIC-CODE (S): 3315-3317,3351-3357,3463,3497 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.107	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	485.40	206.33	132.62	108.72	0.22	0.52	0.81	0.98
ALL	10	43.45	15.35	9.00	7.91	2.46	6.97	11.89	13.53

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 _{pot}	6.64E-08	7.42E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	5.11E-06	5.71E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	1.96E-05	2.64E-04	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 21

RELEASE ACTIVITY: Certa 20 dy

SIC CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

ASSOCIATED SIC CODES: 3315-3317,3351-3357,3463,3497

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
3.00	2	9	20.00	0.11	0.00	High
788.00	0	1	20.00	0.11	0.00	High
920.00	0	1	20.00	0.11	0.00	High
1.44E+04	0	0	20.00	0.11	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:22

Number of Release Sites: 1.

Release Activity: Certa 260 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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	1.00E-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: TCE

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

SCENARIO #: 22 Number of Sites: 1 RELEASE ACTIVITY: Certa 260 dy

SIC-CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

SIC-CODE (S): 3315-3317,3351-3357,3463,3497 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	260.	0.01	1.00E-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	485.40	206.33	132.62	108.72	2.06E-02	4.85E-02	7.54E-02	9.20E-02
ALL	10	43.45	15.35	9.00	7.91	0.23	0.65	1.11	1.26

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 _{pot}	8.07E-08	9.02E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	6.21E-06	6.94E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	1.84E-06	2.47E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 22

RELEASE ACTIVITY: Certa 260 dy

SIC CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

ASSOCIATED SIC CODES: 3315-3317,3351-3357,3463,3497

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
3.00	8	28	260.00	1.00E-02	0.00	High
788.00	0	0	260.00	1.00E-02	0.00	High
920.00	0	0	260.00	1.00E-02	0.00	High
1.44E+04	0	0	260.00	1.00E-02	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:23

Number of Release Sites: 1.

Release Activity: GM IN 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:	8.60E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 23

RELEASE ACTIVITY: GM IN 20 dy

FACILITY NAME: DELPHI AUTOMOTIVE SYSTEMS LLC

FACILITY LOCATION: KOKOMO IN 469049005

RECEIVING WATER NAME: WILDCAT CR

REACH NUMBER: 05120107009

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT #: IN0001830

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.086	8.60E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	258.26	79.93	49.69	41.01	NA
CONCENTRATION (µg/L)	0.33	1.08	1.73	2.10	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 _{pot}	1.00E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	7.72E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	4.08E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 23

RELEASE ACTIVITY: GM IN 20 dy

FACILITY NAME: DELPHI AUTOMOTIVE SYSTEMS LLC

FACILITY LOCATION: KOKOMO IN 469049005

RECEIVING STREAM NAME: WILDCAT CR

REACH NUMBER: 05120107009

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: IN0001830

GAGING STATION ID: 03333700

GAGING STATION PERIOD OF RECORD: 01/01/66 - 12/12/90

GAGING STATION NUMBER OF OBSERVATIONS: 9113.00

NUMBER OF STATIONS ON REACH: 3

50 %ile FLOW (MLD): 229.92

10 %ile FLOW (MLD): 68.49

EFFLUENT FLOW (MLD): 7.57

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 (%)
3.00	0	0	20.00	8.60E-02	0.00
788.00	0	0	20.00	8.60E-02	0.00
920.00	0	0	20.00	8.60E-02	0.00
1.44E+04	0	0	20.00	8.60E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:24

Number of Release Sites: 1.

Release Activity: GM IN 260 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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	1.00E-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: TCE

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

SCENARIO NUMBER: 24

RELEASE ACTIVITY: GM IN 260 dy

FACILITY NAME: DELPHI AUTOMOTIVE SYSTEMS LLC

FACILITY LOCATION: KOKOMO IN 469049005

RECEIVING WATER NAME: WILDCAT CR

REACH NUMBER: 05120107009

FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT #: IN0001830

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.01	1.00E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	258.26	79.93	49.69	41.01	NA
CONCENTRATION (µg/L)	3.87E-02	0.13	0.20	0.24	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 _{pot}	1.52E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.17E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	4.74E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 24

RELEASE ACTIVITY: GM IN 260 dy

FACILITY NAME: DELPHI AUTOMOTIVE SYSTEMS LLC

FACILITY LOCATION: KOKOMO IN 469049005

RECEIVING STREAM NAME: WILDCAT CR

REACH NUMBER: 05120107009

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: IN0001830

GAGING STATION ID: 03333700

GAGING STATION PERIOD OF RECORD: 01/01/66 - 12/12/90

GAGING STATION NUMBER OF OBSERVATIONS: 9113.00

NUMBER OF STATIONS ON REACH: 3

50 %ile FLOW (MLD): 229.92

10 %ile FLOW (MLD): 68.49

EFFLUENT FLOW (MLD): 7.57

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 (%)
3.00	0	0	260.00	1.00E-02	0.00
788.00	0	0	260.00	1.00E-02	0.00
920.00	0	0	260.00	1.00E-02	0.00
1.44E+04	0	0	260.00	1.00E-02	0.00

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 (%)
3.00	0	0	260.00	1.00E-02	0.00
788.00	0	0	260.00	1.00E-02	0.00
920.00	0	0	260.00	1.00E-02	0.00
1.44E+04	0	0	260.00	1.00E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:25

Number of Release Sites: 1.

Release Activity: Amphenol 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:	8.20E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 25 RELEASE ACTIVITY: Amphenol 20 dy

FACILITY NAME: AEROSPACE OPERATIONS

FACILITY LOCATION: SIDNEY NY 13838

RECEIVING WATER NAME: SUSQUEHANNA R

REACH NUMBER: 02050101009 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: NY0003824 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.082	8.20E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1134.35	315.59	205.91	168.28	NA
CONCENTRATION (µg/L)	7.23E-02	0.26	0.40	0.49	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 _{pot}	2.18E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.68E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	9.84E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 25

RELEASE ACTIVITY: Amphenol 20 dy

FACILITY NAME: AEROSPACE OPERATIONS

FACILITY LOCATION: SIDNEY NY 13838

RECEIVING STREAM NAME: SUSQUEHANNA R

REACH NUMBER: 02050101009

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NY0003824

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): 4129.08

7q10 FLOW (MLD): 205.91

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 (%)
3.00	0	0	20.00	8.20E-02	0.00
788.00	0	0	20.00	8.20E-02	0.00
920.00	0	0	20.00	8.20E-02	0.00
1.44E+04	0	0	20.00	8.20E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:26

Number of Release Sites: 1.

Release Activity: Amphenol 260 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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	1.00E-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: TCE

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

SCENARIO NUMBER: 26

RELEASE ACTIVITY: Amphenol 260 dy

FACILITY NAME: AEROSPACE OPERATIONS

FACILITY LOCATION: SIDNEY NY 13838

RECEIVING WATER NAME: SUSQUEHANNA R

REACH NUMBER: 02050101009

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: NY0003824

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.01	1.00E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1134.35	315.59	205.91	168.28	NA
CONCENTRATION (µg/L)	8.82E-03	3.17E-02	4.86E-02	5.94E-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 _{pot}	3.45E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.66E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.20E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 26

RELEASE ACTIVITY: Amphenol 260 dy

FACILITY NAME: AEROSPACE OPERATIONS

FACILITY LOCATION: SIDNEY NY 13838

RECEIVING STREAM NAME: SUSQUEHANNA R

REACH NUMBER: 02050101009

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NY0003824

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): 4129.08

7q10 FLOW (MLD): 205.91

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 (%)
3.00	0	0	260.00	1.00E-02	0.00
788.00	0	0	260.00	1.00E-02	0.00
920.00	0	0	260.00	1.00E-02	0.00
1.44E+04	0	0	260.00	1.00E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:27

Number of Release Sites: 1.

Release Activity: Emerson 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.62 (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:	8.10E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 27

RELEASE ACTIVITY: Emerson 20 dy

FACILITY NAME: MAYSVILLE STP

FACILITY LOCATION: MAYSVILLE KY 41056

RECEIVING WATER NAME: OHIO R

REACH NUMBER: 05090201020

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: KY0020257

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.081	8.10E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8.14E+04	2.05E+04	1.55E+04	1.23E+04	NA
CONCENTRATION (µg/L)	9.95E-04	3.94E-03	5.22E-03	6.58E-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 _{pot}	3.00E-10 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.31E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.49E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 27

RELEASE ACTIVITY: Emerson 20 dy

FACILITY NAME: MAYSVILLE STP

FACILITY LOCATION: MAYSVILLE KY 41056

RECEIVING STREAM NAME: OHIO R

REACH NUMBER: 05090201020

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: KY0020257

GAGING STATION ID: 03238000

GAGING STATION PERIOD OF RECORD: 02/01/66 - 09/29/75

GAGING STATION NUMBER OF OBSERVATIONS: 1826.00

NUMBER OF STATIONS ON REACH: 1

50 %ile FLOW (MLD): 3.35E+05

10 %ile FLOW (MLD): 1.27E+05

EFFLUENT FLOW (MLD):3.79

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 (%)
3.00	0	0	20.00	8.10E-02	0.00
788.00	0	0	20.00	8.10E-02	0.00
920.00	0	0	20.00	8.10E-02	0.00
1.44E+04	0	0	20.00	8.10E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:2

Number of Release Sites: 1.

Release Activity: Emerson 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.61 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	6.20E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 2 RELEASE ACTIVITY: Emerson 260 dy
 FACILITY NAME: MAYSVILLE STP
 FACILITY LOCATION: MAYSVILLE KY 41056
 RECEIVING WATER NAME: OHIO R
 REACH NUMBER: 05090201020 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: KY0020257 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.0062	6.20E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8.14E+04	2.05E+04	1.55E+04	1.23E+04	NA
CONCENTRATION (µg/L)	7.61E-05	3.02E-04	4.00E-04	5.04E-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 _{pot}	2.98E-10 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.29E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.14E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 2 RELEASE ACTIVITY: Emerson 260 dy

FACILITY NAME: MAYSVILLE STP

FACILITY LOCATION: MAYSVILLE KY 41056

RECEIVING STREAM NAME: OHIO R

REACH NUMBER: 05090201020 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: KY0020257 GAGING STATION ID: 03238000

GAGING STATION PERIOD OF RECORD: 02/01/66 - 09/29/75 GAGING STATION NUMBER OF OBSERVATIONS: 1826.00 NUMBER OF STATIONS ON REACH: 1

50 %ile FLOW (MLD): 3.35E+05 10 %ile FLOW (MLD): 1.27E+05 EFFLUENT FLOW (MLD):3.79

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 (%)
3.00	1	3	260.00	6.20E-03	0.00
788.00	1	3	260.00	6.20E-03	0.00
920.00	1	3	260.00	6.20E-03	0.00
1.44E+04	1	3	260.00	6.20E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:31

Number of Release Sites: 1.

Release Activity: Olean 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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:31 RELEASE ACTIVITY: Olean 20 dy

FACILITY NAME: OLEAN (C) WWTF

FACILITY LOCATION: OLEAN NY 14760

RECEIVING WATER NAME: ALLEGHENY R

REACH NUMBER: 05010001016 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: NY0027162 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)	2165.44	787.94	530.93	431.03	NA
CONCENTRATION (µg/L)	3.14E-02	8.63E-02	0.13	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 _{pot}	9.46E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	7.28E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	3.27E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 31 RELEASE ACTIVITY: Olean 20 dy

FACILITY NAME: OLEAN (C) WWTF

FACILITY LOCATION: OLEAN NY 14760

RECEIVING STREAM NAME: ALLEGHENY R

REACH NUMBER: 05010001016 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NY0027162 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): 5363.47 7q10 FLOW (MLD): 530.93 EFFLUENT FLOW (MLD):15.34

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 (%)
3.00	0	0	20.00	6.80E-02	0.00
788.00	0	0	20.00	6.80E-02	0.00
920.00	0	0	20.00	6.80E-02	0.00
1.44E+04	0	0	20.00	6.80E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:32

Number of Release Sites: 1.

Release Activity: Olean 260 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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	1.00E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:32 RELEASE ACTIVITY: Olean 260 dy
 FACILITY NAME: OLEAN (C) WWTF
 FACILITY LOCATION: OLEAN NY 14760
 RECEIVING WATER NAME: ALLEGHENY R
 REACH NUMBER: 05010001016 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: NY0027162 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.01	1.00E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	2165.44	787.94	530.93	431.03	NA
CONCENTRATION (µg/L)	4.62E-03	1.27E-02	1.88E-02	2.32E-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 _{pot}	1.81E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.39E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	4.81E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 32 RELEASE ACTIVITY: Olean 260 dy

FACILITY NAME: OLEAN (C) WWTF

FACILITY LOCATION: OLEAN NY 14760

RECEIVING STREAM NAME: ALLEGHENY R

REACH NUMBER: 05010001016 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NY0027162 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): 5363.47 7q10 FLOW (MLD): 530.93 EFFLUENT FLOW (MLD):15.34

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 (%)
3.00	0	0	260.00	1.00E-02	0.00
788.00	0	0	260.00	1.00E-02	0.00
920.00	0	0	260.00	1.00E-02	0.00
1.44E+04	0	0	260.00	1.00E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:33

Number of Release Sites: 1.

Release Activity: Hollingsworth 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.22 (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:	6.10E-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: TCE

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

SCENARIO #: 33 Number of Sites: 1 RELEASE
ACTIVITY:Hollingsworth 20 dy

SIC-CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

SIC-CODE (S): 3315-3317,3351-3357,3463,3497 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.061	6.10E-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	485.40	206.33	132.62	108.72	0.13	0.30	0.46	0.56
ALL	10	43.45	15.35	9.00	7.91	1.40	3.97	6.78	7.71

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 _{pot}	3.79E-08	4.23E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	2.91E-06	3.25E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	1.12E-05	1.51E-04	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 33

RELEASE ACTIVITY: Hollingsworth 20 dy

SIC CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

ASSOCIATED SIC CODES: 3315-3317,3351-3357,3463,3497

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
3.00	2	6	20.00	6.10E-02	0.00	High
788.00	0	1	20.00	6.10E-02	0.00	High
920.00	0	0	20.00	6.10E-02	0.00	High
1.44E+04	0	0	20.00	6.10E-02	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:34

Number of Release Sites: 1.

Release Activity: Hollingsworth 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.22 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	4.69E-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: TCE

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

SCENARIO #: 34 Number of Sites: 1 RELEASE
ACTIVITY:Hollingsworth 260 dy

SIC-CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

SIC-CODE (S): 3315-3317,3351-3357,3463,3497 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	260.	0.00469	4.69E-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	485.40	206.33	132.62	108.72	9.66E-03	2.27E-02	3.54E-02	4.31E-02
ALL	10	43.45	15.35	9.00	7.91	0.11	0.31	0.52	0.59

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 _{pot}	3.79E-08	4.23E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	2.91E-06	3.25E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	8.61E-07	1.16E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 34

RELEASE ACTIVITY: Hollingsworth 260 dy

SIC CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

ASSOCIATED SIC CODES: 3315-3317,3351-3357,3463,3497

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
3.00	7	24	260.00	4.69E-03	0.00	High
788.00	0	0	260.00	4.69E-03	0.00	High
920.00	0	0	260.00	4.69E-03	0.00	High
1.44E+04	0	0	260.00	4.69E-03	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:37

Number of Release Sites: 1.

Release Activity: Trelleborg 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.94 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	4.70E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:37 RELEASE ACTIVITY: Trelleborg 20 dy

FACILITY NAME: TRELLEBORG YSH INC-SANDUSKY

FACILITY LOCATION: SANDUSKY MI 48471

RECEIVING WATER NAME: BLACK R

REACH NUMBER: 04090001008 FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT #: MI0028142 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.047	4.70E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	17.47	3.66	2.04	1.72	NA
CONCENTRATION (µg/L)	2.69	12.85	23.04	27.30	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 _{pot}	8.11E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	6.24E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	4.87E-04 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 37 RELEASE ACTIVITY: Trelleborg 20 dy

FACILITY NAME: TRELLEBORG YSH INC-SANDUSKY

FACILITY LOCATION: SANDUSKY MI 48471

RECEIVING STREAM NAME: BLACK R

REACH NUMBER: 04090001008 FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: MI0028142 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): 132.74 7q10 FLOW (MLD): 2.04 EFFLUENT FLOW (MLD):0.63

RESULTS

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 (%)
3.00	1	4	20.00	4.70E-02	0.00
788.00	0	0	20.00	4.70E-02	0.00
920.00	0	0	20.00	4.70E-02	0.00
1.44E+04	0	0	20.00	4.70E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:38

Number of Release Sites: 1.

Release Activity: Trelleborg 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.94 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	3.60E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:38

RELEASE ACTIVITY: Trelleborg 260 dy

FACILITY NAME: TRELLEBORG YSH INC-SANDUSKY

FACILITY LOCATION: SANDUSKY MI 48471

RECEIVING WATER NAME: BLACK R

REACH NUMBER: 04090001008

FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT #: MI0028142

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.0036	3.60E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	17.47	3.66	2.04	1.72	NA
CONCENTRATION (µg/L)	0.21	0.98	1.76	2.09	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 _{pot}	8.07E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	6.21E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	3.73E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 38

RELEASE ACTIVITY: Trelleborg 260 dy

FACILITY NAME: TRELLEBORG YSH INC-SANDUSKY

FACILITY LOCATION: SANDUSKY MI 48471

RECEIVING STREAM NAME: BLACK R

REACH NUMBER: 04090001008

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: MI0028142

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): 132.74

7q10 FLOW (MLD): 2.04

EFFLUENT FLOW (MLD):0.63

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 (%)
3.00	0	1	260.00	3.60E-03	0.00
788.00	0	0	260.00	3.60E-03	0.00
920.00	0	0	260.00	3.60E-03	0.00
1.44E+04	0	0	260.00	3.60E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:39

Number of Release Sites: 1.

Release Activity: Timken 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.92 (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:	4.60E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:39 RELEASE ACTIVITY: Timken 20 dy
 FACILITY NAME: BELTON INDUSTRIES INC
 FACILITY LOCATION: BELTON SC 29627
 RECEIVING WATER NAME: BROAD MOUTH CR
 REACH NUMBER: 03050109079 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: SC0000698 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.046	4.60E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	17.46	5.89	3.34	2.81	NA
CONCENTRATION (µg/L)	2.63	7.81	13.77	16.37	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 _{pot}	7.94E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	6.11E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.96E-04 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 39

RELEASE ACTIVITY: Timken 20 dy

FACILITY NAME: BELTON INDUSTRIES INC

FACILITY LOCATION: BELTON SC 29627

RECEIVING STREAM NAME: BROAD MOUTH CR

REACH NUMBER: 03050109079

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: SC0000698

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): 74.58

7q10 FLOW (MLD): 3.34

EFFLUENT FLOW (MLD):0.18

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 (%)
3.00	1	5	20.00	4.60E-02	0.00
788.00	0	0	20.00	4.60E-02	0.00
920.00	0	0	20.00	4.60E-02	0.00
1.44E+04	0	0	20.00	4.60E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:40

Number of Release Sites: 1.

Release Activity: Timken 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.92 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	3.55E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:40

RELEASE ACTIVITY: Timken 260 dy

FACILITY NAME: BELTON INDUSTRIES INC

FACILITY LOCATION: BELTON SC 29627

RECEIVING WATER NAME: BROAD MOUTH CR

REACH NUMBER: 03050109079

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: SC0000698

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00355	3.55E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	17.46	5.89	3.34	2.81	NA
CONCENTRATION (µg/L)	0.20	0.60	1.06	1.26	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 _{pot}	7.96E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	6.13E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.28E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 40 RELEASE ACTIVITY: Timken 260 dy

FACILITY NAME: BELTON INDUSTRIES INC

FACILITY LOCATION: BELTON SC 29627

RECEIVING STREAM NAME: BROAD MOUTH CR

REACH NUMBER: 03050109079 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: SC0000698 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): 74.58 7q10 FLOW (MLD): 3.34 EFFLUENT FLOW (MLD):0.18

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 (%)
3.00	1	2	260.00	3.55E-03	0.00
788.00	0	0	260.00	3.55E-03	0.00
920.00	0	0	260.00	3.55E-03	0.00
1.44E+04	0	0	260.00	3.55E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:43

Number of Release Sites: 1.

Release Activity: Johnson 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.60 (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:	3.00E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:43

RELEASE ACTIVITY: Johnson 20 dy

FACILITY NAME: COLEMAN COMPANY WICHITA

FACILITY LOCATION: KS 67219

RECEIVING WATER NAME: ARKANSAS R

REACH NUMBER: 11030010001

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: KS0000850

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.03	3.00E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	333.96	67.35	41.62	34.40	NA
CONCENTRATION (µg/L)	8.98E-02	0.45	0.72	0.87	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 _{pot}	2.71E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.08E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.69E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 43

RELEASE ACTIVITY: Johnson 20 dy

FACILITY NAME: COLEMAN COMPANY WICHITA

FACILITY LOCATION: KS 67219

RECEIVING STREAM NAME: ARKANSAS R

REACH NUMBER: 11030010001

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: KS0000850

GAGING STATION ID: 07143330

GAGING STATION PERIOD OF
RECORD: 01/01/66 - 09/29/89

GAGING STATION
NUMBER OF
OBSERVATIONS: 8674.00

NUMBER OF STATIONS ON
REACH: 1

50 %ile FLOW (MLD): 618.83

10 %ile FLOW (MLD): 225.03

EFFLUENT FLOW
(MLD): 3.78

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 (%)
3.00	0	0	20.00	3.00E-02	0.00
788.00	0	0	20.00	3.00E-02	0.00
920.00	0	0	20.00	3.00E-02	0.00
1.44E+04	0	0	20.00	3.00E-02	0.00

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 (%)
3.00	0	0	20.00	3.00E-02	0.00
788.00	0	0	20.00	3.00E-02	0.00
920.00	0	0	20.00	3.00E-02	0.00
1.44E+04	0	0	20.00	3.00E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:44

Number of Release Sites: 1.

Release Activity: Johnson 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.59 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	2.28E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:44

RELEASE ACTIVITY: Johnson 260 dy

FACILITY NAME: COLEMAN COMPANY WICHITA

FACILITY LOCATION: KS 67219

RECEIVING WATER NAME: ARKANSAS R

REACH NUMBER: 11030010001

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: KS0000850

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00228	2.28E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	333.96	67.35	41.62	34.40	NA
CONCENTRATION (µg/L)	6.83E-03	3.39E-02	5.48E-02	6.63E-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 _{pot}	2.67E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.06E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.28E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 44

RELEASE ACTIVITY: Johnson 260 dy

FACILITY NAME: COLEMAN COMPANY WICHITA

FACILITY LOCATION: KS 67219

RECEIVING STREAM NAME: ARKANSAS R

REACH NUMBER: 11030010001

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: KS0000850

GAGING STATION ID: 07143330

GAGING STATION PERIOD OF RECORD: 01/01/66 - 09/29/89

GAGING STATION NUMBER OF OBSERVATIONS: 8674.00

NUMBER OF STATIONS ON REACH: 1

50 %ile FLOW (MLD): 618.83

10 %ile FLOW (MLD): 225.03

EFFLUENT FLOW (MLD):3.78

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 (%)
3.00	0	0	260.00	2.28E-03	0.00
788.00	0	0	260.00	2.28E-03	0.00
920.00	0	0	260.00	2.28E-03	0.00
1.44E+04	0	0	260.00	2.28E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:47

Number of Release Sites: 1.

Release Activity: Natl Rail 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.52 (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:	2.60E-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: TCE

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

SCENARIO #: 47

Number of Sites: 1

RELEASE ACTIVITY: Natl Rail
20 dy

SIC-CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

SIC-CODE (S): 3315-3317,3351-3357,3463,3497

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.026	2.60E-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	485.40	206.33	132.62	108.72	5.36E-02	0.13	0.20	0.24
ALL	10	43.45	15.35	9.00	7.91	0.60	1.69	2.89	3.29

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 _{pot}	1.61E-08	1.80E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	1.24E-06	1.39E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	4.77E-06	6.42E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 47 RELEASE ACTIVITY: Natl Rail 20 dy

SIC CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

ASSOCIATED SIC CODES: 3315-3317,3351-3357,3463,3497

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
3.00	1	3	20.00	2.60E-02	0.00	High
788.00	0	0	20.00	2.60E-02	0.00	High
920.00	0	0	20.00	2.60E-02	0.00	High
1.44E+04	0	0	20.00	2.60E-02	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:48

Number of Release Sites: 1.

Release Activity: Natl Rail 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.53 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	2.03E-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: TCE

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

SCENARIO #: 48

Number of Sites: 1

RELEASE ACTIVITY: Natl Rail
260 dy

SIC-CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

SIC-CODE (S): 3315-3317,3351-3357,3463,3497

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	260.	0.00203	2.03E-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	485.40	206.33	132.62	108.72	4.18E-03	9.84E-03	1.53E-02	1.87E-02
ALL	10	43.45	15.35	9.00	7.91	4.67E-02	0.13	0.23	0.26

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 _{pot}	1.64E-08	1.83E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	1.26E-06	1.41E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	3.73E-07	5.01E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 48

RELEASE ACTIVITY: Natl Rail 260 dy

SIC CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

ASSOCIATED SIC CODES: 3315-3317,3351-3357,3463,3497

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
3.00	6	21	260.00	2.03E-03	0.00	High
788.00	0	0	260.00	2.03E-03	0.00	High
920.00	0	0	260.00	2.03E-03	0.00	High
1.44E+04	0	0	260.00	2.03E-03	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:49

Number of Release Sites: 1.

Release Activity: Electrolux 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.52 (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:	2.60E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 49 RELEASE ACTIVITY: Electrolux 20 dy

FACILITY NAME: FRIGIDAIRE HOME PRODUCTS

FACILITY LOCATION: GREENVILLE MI 48838

RECEIVING WATER NAME: FLAT R

REACH NUMBER: 04050006024 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: MI0002135 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.026	2.60E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	311.87	184.07	117.84	96.68	NA
CONCENTRATION (µg/L)	8.34E-02	0.14	0.22	0.27	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 _{pot}	2.51E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.93E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	5.35E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 49 RELEASE ACTIVITY: Electrolux 20 dy

FACILITY NAME: FRIGIDAIRE HOME PRODUCTS

FACILITY LOCATION: GREENVILLE MI 48838

RECEIVING STREAM NAME: FLAT R

REACH NUMBER: 04050006024 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: MI0002135 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): 516.61 7q10 FLOW (MLD): 117.84 EFFLUENT FLOW (MLD):0.63

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 (%)
3.00	0	0	20.00	2.60E-02	0.00
788.00	0	0	20.00	2.60E-02	0.00
920.00	0	0	20.00	2.60E-02	0.00
1.44E+04	0	0	20.00	2.60E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:50

Number of Release Sites: 1.

Release Activity: Electrolux 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.52 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	2.01E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:50 RELEASE ACTIVITY: Electrolux 260 dy
 FACILITY NAME: FRIGIDAIRE HOME PRODUCTS
 FACILITY LOCATION: GREENVILLE MI 48838
 RECEIVING WATER NAME: FLAT R
 REACH NUMBER: 04050006024 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: MI0002135 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00201	2.01E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	311.87	184.07	117.84	96.68	NA
CONCENTRATION (µg/L)	6.44E-03	1.09E-02	1.71E-02	2.08E-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 _{pot}	2.53E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.94E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	4.14E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 50

RELEASE ACTIVITY: Electrolux 260 dy

FACILITY NAME: FRIGIDAIRE HOME PRODUCTS

FACILITY LOCATION: GREENVILLE MI 48838

RECEIVING STREAM NAME: FLAT R

REACH NUMBER: 04050006024

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: MI0002135

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): 516.61

7q10 FLOW (MLD): 117.84

EFFLUENT FLOW (MLD):0.63

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 (%)
3.00	0	0	260.00	2.01E-03	0.00
788.00	0	0	260.00	2.01E-03	0.00
920.00	0	0	260.00	2.01E-03	0.00
1.44E+04	0	0	260.00	2.01E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:51

Number of Release Sites: 1.

Release Activity: Rex 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.50 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	2.50E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:51

RELEASE ACTIVITY: Rex 20 dy

FACILITY NAME: LANSDALE BORO

FACILITY LOCATION: LANSDALE PA 19446

RECEIVING WATER NAME: NESHAMINY R

REACH NUMBER: 02040201011

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT #: PA0026182

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.025	2.50E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	216.46	60.30	37.12	30.70	NA
CONCENTRATION (µg/L)	0.12	0.41	0.67	0.81	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 _{pot}	3.48E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.68E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.57E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 51 RELEASE ACTIVITY: Rex 20 dy

FACILITY NAME: LANSDALE BORO

FACILITY LOCATION: LANSDALE PA 19446

RECEIVING STREAM NAME: NESHAMINY R

REACH NUMBER: 02040201011 FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: PA0026182 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): 919.00 7q10 FLOW (MLD): 37.12 EFFLUENT FLOW (MLD):10.33

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 (%)
3.00	0	0	20.00	2.50E-02	0.00
788.00	0	0	20.00	2.50E-02	0.00
920.00	0	0	20.00	2.50E-02	0.00
1.44E+04	0	0	20.00	2.50E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:52

Number of Release Sites: 1.

Release Activity: Rex 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.50 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	1.94E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:52

RELEASE ACTIVITY: Rex 260 dy

FACILITY NAME: LANSDALE BORO

FACILITY LOCATION: LANSDALE PA 19446

RECEIVING WATER NAME: NESHAMINY R

REACH NUMBER: 02040201011

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT #: PA0026182

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00194	1.94E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	216.46	60.30	37.12	30.70	NA
CONCENTRATION (µg/L)	8.96E-03	3.22E-02	5.23E-02	6.32E-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 _{pot}	3.51E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.70E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.22E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 52

RELEASE ACTIVITY: Rex 260 dy

FACILITY NAME: LANSDALE BORO

FACILITY LOCATION: LANSDALE PA 19446

RECEIVING STREAM NAME: NESHAMINY R

REACH NUMBER: 02040201011

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: PA0026182

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): 919.00

7q10 FLOW (MLD): 37.12

EFFLUENT FLOW (MLD):10.33

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 (%)
3.00	0	0	260.00	1.94E-03	0.00
788.00	0	0	260.00	1.94E-03	0.00
920.00	0	0	260.00	1.94E-03	0.00
1.44E+04	0	0	260.00	1.94E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:53

Number of Release Sites: 1.

Release Activity: Carrier 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.46 (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:	2.30E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 53	RELEASE ACTIVITY: Carrier 20 dy	
FACILITY NAME: THOMPSON ROAD SITE		
FACILITY LOCATION: SYRACUSE NY 13221		
RECEIVING WATER NAME: ONONDAGA L		
REACH NUMBER: 04140201056	FACILITY ON REACH: No	DISCHARGE TYPE: Direct
NPDES PERMIT #: NY0001163	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.	8.09	0.023	2.30E-02	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	2.84
CHRONIC SCENARIO	1.00	2.84

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:54

Number of Release Sites: 1.

Release Activity: Carrier 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.46 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	1.77E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 54	RELEASE ACTIVITY: Carrier 260 dy	
FACILITY NAME: THOMPSON ROAD SITE		
FACILITY LOCATION: SYRACUSE NY 13221		
RECEIVING WATER NAME: ONONDAGA L		
REACH NUMBER: 04140201056	FACILITY ON REACH: No	DISCHARGE TYPE: Direct
NPDES PERMIT #: NY0001163	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.	260.	8.09	0.00177	1.77E-03	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	0.22
CHRONIC SCENARIO	1.00	0.22

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:55

Number of Release Sites: 1.

Release Activity: Cascade 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.30 (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:	1.50E-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: TCE

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

SCENARIO #: 55 Number of Sites: 1 RELEASE ACTIVITY: Cascade
20 dy

SIC-CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

SIC-CODE (S): 3315-3317,3351-3357,3463,3497 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.015	1.50E-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	485.40	206.33	132.62	108.72	3.09E-02	7.27E-02	0.11	0.14
ALL	10	43.45	15.35	9.00	7.91	0.35	0.98	1.67	1.90

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 _{pot}	9.31E-09	1.04E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	7.16E-07	8.00E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	2.75E-06	3.70E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 55

RELEASE ACTIVITY: Cascade 20 dy

SIC CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

ASSOCIATED SIC CODES: 3315-3317,3351-3357,3463,3497

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
3.00	1	3	20.00	1.50E-02	0.00	High
788.00	0	0	20.00	1.50E-02	0.00	High
920.00	0	0	20.00	1.50E-02	0.00	High
1.44E+04	0	0	20.00	1.50E-02	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:56

Number of Release Sites: 1.

Release Activity: Cascade 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.30 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	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: TCE

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

SCENARIO #: 56 Number of Sites: 1 RELEASE ACTIVITY: Cascade
260 dy

SIC-CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

SIC-CODE (S): 3315-3317,3351-3357,3463,3497 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	260.	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	485.40	206.33	132.62	108.72	2.41E-03	5.67E-03	8.82E-03	1.08E-02
ALL	10	43.45	15.35	9.00	7.91	2.69E-02	7.62E-02	0.13	0.15

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 _{pot}	9.44E-09	1.05E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	7.26E-07	8.12E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	2.15E-07	2.89E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 56

RELEASE ACTIVITY: Cascade 260 dy

SIC CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

ASSOCIATED SIC CODES: 3315-3317,3351-3357,3463,3497

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
3.00	5	18	260.00	1.17E-03	0.00	High
788.00	0	0	260.00	1.17E-03	0.00	High
920.00	0	0	260.00	1.17E-03	0.00	High
1.44E+04	0	0	260.00	1.17E-03	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:57

Number of Release Sites: 1.

Release Activity: USAF 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.30 (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:	1.50E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 57 RELEASE ACTIVITY: USAF 20 dy
 FACILITY NAME: OSCODA TWP WWTP
 FACILITY LOCATION: OSCODA MI 48750
 RECEIVING WATER NAME: AU SABLE R
 REACH NUMBER: 04070007001 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: MI0028282 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.015	1.50E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	3598.79	2185.26	1526.29	1229.98	NA
CONCENTRATION (µg/L)	4.17E-03	6.86E-03	9.83E-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 _{pot}	1.26E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	9.66E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.60E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 57

RELEASE ACTIVITY: USAF 20 dy

FACILITY NAME: OSCODA TWP WWTP

FACILITY LOCATION: OSCODA MI 48750

RECEIVING STREAM NAME: AU SABLE R

REACH NUMBER: 04070007001

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: MI0028282

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): 4577.82

7q10 FLOW (MLD): 1526.29

EFFLUENT FLOW (MLD):0.56

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 (%)
3.00	0	0	20.00	1.50E-02	0.00
788.00	0	0	20.00	1.50E-02	0.00
920.00	0	0	20.00	1.50E-02	0.00
1.44E+04	0	0	20.00	1.50E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:58

Number of Release Sites: 1.

Release Activity: USAF 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.30 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	1.15E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:58

RELEASE ACTIVITY: USAF 260 dy

FACILITY NAME: OSCODA TWP WWTP

FACILITY LOCATION: OSCODA MI 48750

RECEIVING WATER NAME: AU SABLE R

REACH NUMBER: 04070007001

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: MI0028282

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00115	1.15E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	3598.79	2185.26	1526.29	1229.98	NA
CONCENTRATION (µg/L)	3.20E-04	5.26E-04	7.53E-04	9.35E-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 _{pot}	1.25E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	9.63E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.99E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 58	RELEASE ACTIVITY: USAF 260 dy	
FACILITY NAME: OSCODA TWP WWTP		
FACILITY LOCATION: OSCODA MI 48750		
RECEIVING STREAM NAME: AU SABLE R		
REACH NUMBER: 04070007001	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT NUMBER: MI0028282	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): 4577.82	7q10 FLOW (MLD): 1526.29	EFFLUENT FLOW (MLD): 0.56

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 (%)
3.00	0	0	260.00	1.15E-03	0.00
788.00	0	0	260.00	1.15E-03	0.00
920.00	0	0	260.00	1.15E-03	0.00
1.44E+04	0	0	260.00	1.15E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:59

Number of Release Sites: 1.

Release Activity: AAR Mob 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.28 (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:	1.40E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 59 RELEASE ACTIVITY: AAR Mob 20 dy
 FACILITY NAME: CADILLAC WWTP
 FACILITY LOCATION: CADILLAC MI 49601
 RECEIVING WATER NAME: CLAM R
 REACH NUMBER: 04060102048 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: MI0020257 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.014	1.40E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	271.01	190.78	122.29	100.31	NA
CONCENTRATION (µg/L)	5.17E-02	7.34E-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 _{pot}	1.56E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.20E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.78E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 59 RELEASE ACTIVITY: AAR Mob 20 dy
FACILITY NAME: CADILLAC WWTP
FACILITY LOCATION: CADILLAC MI 49601
RECEIVING STREAM NAME: CLAM R
REACH NUMBER: 04060102048 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
NPDES PERMIT NUMBER: MI0020257 GAGING STATION ID: 04121300
GAGING STATION PERIOD OF RECORD: 06/01/66 - 09/29/90 GAGING STATION NUMBER OF OBSERVATIONS: 8888.00 NUMBER OF STATIONS ON REACH: 1
50 %ile FLOW (MLD): 256.83 10 %ile FLOW (MLD): 158.99 EFFLUENT FLOW (MLD):8.25

RESULTS					
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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 (%)
3.00	0	0	20.00	1.40E-02	0.00
788.00	0	0	20.00	1.40E-02	0.00
920.00	0	0	20.00	1.40E-02	0.00
1.44E+04	0	0	20.00	1.40E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:60

Number of Release Sites: 1.

Release Activity: AAR Mob 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.29 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	1.12E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:60

RELEASE ACTIVITY: AAR Mob 260 dy

FACILITY NAME: CADILLAC WWTP

FACILITY LOCATION: CADILLAC MI 49601

RECEIVING WATER NAME: CLAM R

REACH NUMBER: 04060102048

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: MI0020257

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00112	1.12E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	271.01	190.78	122.29	100.31	NA
CONCENTRATION (µg/L)	4.13E-03	5.87E-03	9.16E-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 _{pot}	1.62E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.25E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.22E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 60

RELEASE ACTIVITY: AAR Mob 260 dy

FACILITY NAME: CADILLAC WWTP

FACILITY LOCATION: CADILLAC MI 49601

RECEIVING STREAM NAME: CLAM R

REACH NUMBER: 04060102048

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: MI0020257

GAGING STATION ID: 04121300

GAGING STATION PERIOD OF RECORD: 06/01/66 - 09/29/90

GAGING STATION NUMBER OF OBSERVATIONS: 8888.00

NUMBER OF STATIONS ON REACH: 1

50 %ile FLOW (MLD): 256.83

10 %ile FLOW (MLD): 158.99

EFFLUENT FLOW (MLD):8.25

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 (%)
3.00	0	0	260.00	1.12E-03	0.00
788.00	0	0	260.00	1.12E-03	0.00
920.00	0	0	260.00	1.12E-03	0.00
1.44E+04	0	0	260.00	1.12E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:61

Number of Release Sites: 1.

Release Activity: Eaton 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.28 (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:	1.40E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 61	RELEASE ACTIVITY: Eaton 20 dy	
FACILITY NAME: KEARNEY WWTF #1		
FACILITY LOCATION: KEARNEY NE 68847		
RECEIVING WATER NAME: PLATTE R N CHANNEL		
REACH NUMBER: 10200101003	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: NE0052647	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.	8.29	0.014	1.40E-02	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	1.69
CHRONIC SCENARIO	1.00	1.69

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:62

Number of Release Sites: 1.

Release Activity: Eaton 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.28 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	1.07E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 62	RELEASE ACTIVITY: Eaton 260 dy	
FACILITY NAME: KEARNEY WWTF #1		
FACILITY LOCATION: KEARNEY NE 68847		
RECEIVING WATER NAME: PLATTE R N CHANNEL		
REACH NUMBER: 10200101003	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: NE0052647	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.	260.	8.29	0.00107	1.07E-03	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	0.13
CHRONIC SCENARIO	1.00	0.13

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:9

Number of Release Sites: 1.

Release Activity: Lake 260 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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	5.00E-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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:9 RELEASE ACTIVITY: Lake 260 dy

FACILITY NAME: UNIFORM TUBE INC

FACILITY LOCATION: COLLEGEVILLE PA 19426

RECEIVING WATER NAME: PERKIOMEN CR

REACH NUMBER: 02040203004 FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT #: PA0042617 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.0005	5.00E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	281.27	75.79	47.03	38.83	NA
CONCENTRATION (µg/L)	1.78E-03	6.60E-03	1.06E-02	1.29E-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 _{pot}	6.96E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	5.36E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.50E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 9

RELEASE ACTIVITY: Lake 260 dy

FACILITY NAME: UNIFORM TUBE INC

FACILITY LOCATION: COLLEGEVILLE PA 19426

RECEIVING STREAM NAME: PERKIOMEN CR

REACH NUMBER: 02040203004

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: PA0042617

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): 1213.02

7q10 FLOW (MLD): 47.03

EFFLUENT FLOW (MLD):6.00E-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 (%)
3.00	0	0	260.00	5.00E-04	0.00
788.00	0	0	260.00	5.00E-04	0.00
920.00	0	0	260.00	5.00E-04	0.00
1.44E+04	0	0	260.00	5.00E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 10

Number of Release Sites: 1.

Release Activity: Lake 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.14 (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:	7.00E-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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:10

RELEASE ACTIVITY: Lake 20 dy

FACILITY NAME: UNIFORM TUBE INC

FACILITY LOCATION: COLLEGEVILLE PA 19426

RECEIVING WATER NAME: PERKIOMEN CR

REACH NUMBER: 02040203004

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT #: PA0042617

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.007	7.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	281.27	75.79	47.03	38.83	NA
CONCENTRATION (µg/L)	2.49E-02	9.24E-02	0.15	0.18	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 _{pot}	7.50E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	5.77E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	3.50E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 10

RELEASE ACTIVITY: Lake 20 dy

FACILITY NAME: UNIFORM TUBE INC

FACILITY LOCATION: COLLEGEVILLE PA 19426

RECEIVING STREAM NAME: PERKIOMEN CR

REACH NUMBER: 02040203004

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: PA0042617

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): 1213.02

7q10 FLOW (MLD): 47.03

EFFLUENT FLOW (MLD):6.00E-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 (%)
3.00	0	0	20.00	7.00E-03	0.00
788.00	0	0	20.00	7.00E-03	0.00
920.00	0	0	20.00	7.00E-03	0.00
1.44E+04	0	0	20.00	7.00E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:63

Number of Release Sites: 1.

Release Activity: Motor 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:	1.30E-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: TCE

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

SCENARIO NUMBER:63

RELEASE ACTIVITY: Motor 20 dy

FACILITY NAME: MOTOR COMPONENTS LLC

FACILITY LOCATION: ELMIRA HEIGHTS NY 14903

RECEIVING WATER NAME: NEWTON CR

REACH NUMBER: 02050105007

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT #: NY0004081

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.013	1.30E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	67.64	26.10	15.60	12.98	NA
CONCENTRATION (µg/L)	0.19	0.50	0.83	1.00	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 _{pot}	5.79E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	4.46E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.89E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 63 RELEASE ACTIVITY: Motor 20 dy

FACILITY NAME: MOTOR COMPONENTS LLC

FACILITY LOCATION: ELMIRA HEIGHTS NY 14903

RECEIVING STREAM NAME: NEWTON CR

REACH NUMBER: 02050105007 FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NY0004081 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): 216.14 7q10 FLOW (MLD): 15.60 EFFLUENT FLOW (MLD):1.00E-02

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 (%)
3.00	0	0	20.00	1.30E-02	0.00
788.00	0	0	20.00	1.30E-02	0.00
920.00	0	0	20.00	1.30E-02	0.00
1.44E+04	0	0	20.00	1.30E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:64

Number of Release Sites: 1.

Release Activity: Motor 260 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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	9.64E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:64 RELEASE ACTIVITY: Motor 260 dy
 FACILITY NAME: MOTOR COMPONENTS LLC
 FACILITY LOCATION: ELMIRA HEIGHTS NY 14903
 RECEIVING WATER NAME: NEWTON CR
 REACH NUMBER: 02050105007 FACILITY ON REACH: No DISCHARGE TYPE: Direct
 NPDES PERMIT #: NY0004081 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00096	9.64E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	67.64	26.10	15.60	12.98	NA
CONCENTRATION (µg/L)	1.43E-02	3.69E-02	6.18E-02	7.43E-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 _{pot}	5.58E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	4.29E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.40E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 64

RELEASE ACTIVITY: Motor 260 dy

FACILITY NAME: MOTOR COMPONENTS LLC

FACILITY LOCATION: ELMIRA HEIGHTS NY 14903

RECEIVING STREAM NAME: NEWTON CR

REACH NUMBER: 02050105007

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NY0004081

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): 216.14

7q10 FLOW (MLD): 15.60

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 (%)
3.00	0	0	260.00	9.64E-04	0.00
788.00	0	0	260.00	9.64E-04	0.00
920.00	0	0	260.00	9.64E-04	0.00
1.44E+04	0	0	260.00	9.64E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:65

Number of Release Sites: 1.

Release Activity: Salem 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:	1.20E-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: TCE

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

SCENARIO #: 65 Number of Sites: 1 RELEASE ACTIVITY: Salem 20 dy

SIC-CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

SIC-CODE (S): 3315-3317,3351-3357,3463,3497 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.012	1.20E-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	485.40	206.33	132.62	108.72	2.47E-02	5.82E-02	9.05E-02	0.11
ALL	10	43.45	15.35	9.00	7.91	0.28	0.78	1.33	1.52

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 _{pot}	7.45E-09	8.32E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	5.73E-07	6.40E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	2.20E-06	2.96E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 65

RELEASE ACTIVITY: Salem 20 dy

SIC CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

ASSOCIATED SIC CODES: 3315-3317,3351-3357,3463,3497

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
3.00	1	2	20.00	1.20E-02	0.00	High
788.00	0	0	20.00	1.20E-02	0.00	High
920.00	0	0	20.00	1.20E-02	0.00	High
1.44E+04	0	0	20.00	1.20E-02	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:66

Number of Release Sites: 1.

Release Activity: Salem 260 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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	8.97E-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: TCE

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

SCENARIO #: 66 Number of Sites: 1 RELEASE ACTIVITY: Salem 260 dy

SIC-CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

SIC-CODE (S): 3315-3317,3351-3357,3463,3497 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	260.	0.002	8.97E-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	485.40	206.33	132.62	108.72	1.85E-03	4.35E-03	6.76E-03	8.25E-03
ALL	10	43.45	15.35	9.00	7.91	2.06E-02	5.84E-02	9.97E-02	0.11

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 _{pot}	7.24E-09	8.09E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	5.57E-07	6.22E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	1.65E-07	2.21E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 66

RELEASE ACTIVITY: Salem 260 dy

SIC CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

ASSOCIATED SIC CODES: 3315-3317,3351-3357,3463,3497

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
3.00	5	17	260.00	8.97E-04	0.00	High
788.00	0	0	260.00	8.97E-04	0.00	High
920.00	0	0	260.00	8.97E-04	0.00	High
1.44E+04	0	0	260.00	8.97E-04	0.00	High

Environmental Releases | SIC Code | PDM SIC Code

Sic Code Based Human and Aquatic Exposures to Surface Water Releases ? Help | Print Page

Chem ID/Rel #	Release Activity: 260	Exposed Population: Adult
test_1	SIC Code Description: Primary Metal Forming Manuf. (major users of metal working fluids)	
test_2	SIC Codes: 3315-3317,3351-3357,3463,3497	
	WWT Removal: 0 %	Pre-treatment Release: 0.000897 kg/site/d
	Release Days: 260	Post-treatment Release: 0.000897 kg/site/d
	Bioconcentration Factor: 0 L/kg	Drinking Water Treatment: 0.00 %

General SIC Code Information | Drinking Water Information | Fish Ingestion Information

Aquatic Exposure Estimates - Surface Water

Flow descriptor	Harmonic Mean	30Q5	7Q10	1Q10
50 %ile				
Flow (MLD)	485.40	206.33	132.62	108.72
Concentration (ug/L)	1.85E-03	4.35E-03	6.76E-03	8.25E-03
10 %ile				
Flow (MLD)	43.45	15.35	9.00	7.91
Concentration (ug/L)	2.06E-02	5.84E-02	9.97E-02	0.11

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:67

Number of Release Sites: 1.

Release Activity: GE Greenville 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.20 (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:	1.00E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 67 RELEASE ACTIVITY: GE Greenville 20 dy
 FACILITY NAME: GE/GAS TURBINE MFG OPERATION
 FACILITY LOCATION: GREENVILLE SC 29602
 RECEIVING WATER NAME: BRUSHY CR
 REACH NUMBER: 03050108014 FACILITY ON REACH: No DISCHARGE TYPE: Direct
 NPDES PERMIT #: SC0003484 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.01	1.00E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	21.31	16.69	9.82	8.20	NA
CONCENTRATION (µg/L)	0.47	0.60	1.02	1.22	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 _{pot}	1.41E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.09E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.27E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 67 RELEASE ACTIVITY: GE Greenville 20 dy

FACILITY NAME: GE/GAS TURBINE MFG OPERATION

FACILITY LOCATION: GREENVILLE SC 29602

RECEIVING STREAM NAME: BRUSHY CR

REACH NUMBER: 03050108014 FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: SC0003484 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): 32.26 7q10 FLOW (MLD): 9.82 EFFLUENT FLOW (MLD):0.81

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 (%)
3.00	0	0	20.00	1.00E-02	0.00
788.00	0	0	20.00	1.00E-02	0.00
920.00	0	0	20.00	1.00E-02	0.00
1.44E+04	0	0	20.00	1.00E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:68

Number of Release Sites: 1.

Release Activity: GE Greenville 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.21 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	8.06E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:68 RELEASE ACTIVITY: GE Greenville 260 dy
 FACILITY NAME: GE/GAS TURBINE MFG OPERATION
 FACILITY LOCATION: GREENVILLE SC 29602
 RECEIVING WATER NAME: BRUSHY CR
 REACH NUMBER: 03050108014 FACILITY ON REACH: No DISCHARGE TYPE: Direct
 NPDES PERMIT #: SC0003484 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00081	8.06E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	21.31	16.69	9.82	8.20	NA
CONCENTRATION (µg/L)	3.78E-02	4.83E-02	8.21E-02	9.83E-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 _{pot}	1.48E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.14E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.83E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 1

Number of Release Sites: 1.

Release Activity: Parker 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.20 (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:	1.00E-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: TCE-2

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

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

SIC-CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

SIC-CODE (S): 3315-3317,3351-3357,3463,3497 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.01	1.00E-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	485.40	206.33	132.62	108.72	2.06E-02	4.85E-02	7.54E-02	9.20E-02
ALL	10	43.45	15.35	9.00	7.91	0.23	0.65	1.11	1.26

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 _{pot}	6.21E-09	6.94E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	4.78E-07	5.34E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	1.84E-06	2.47E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:2

Number of Release Sites: 1.

Release Activity: Parker 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.19 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	7.47E-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: TCE-2

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

SCENARIO #: 2 Number of Sites: 1 RELEASE ACTIVITY: Parker 260 dy

SIC-CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

SIC-CODE (S): 3315-3317,3351-3357,3463,3497 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	260.	0.00075	7.47E-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	485.40	206.33	132.62	108.72	1.54E-03	3.62E-03	5.63E-03	6.87E-03
ALL	10	43.45	15.35	9.00	7.91	1.72E-02	4.87E-02	8.30E-02	9.44E-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 _{pot}	6.03E-09	6.74E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	4.64E-07	5.18E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	1.37E-07	1.84E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 2

RELEASE ACTIVITY: Parker 260 dy

SIC CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

ASSOCIATED SIC CODES: 3315-3317,3351-3357,3463,3497

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
3.00	4	16	260.00	7.47E-04	0.00	High
788.00	0	0	260.00	7.47E-04	0.00	High
920.00	0	0	260.00	7.47E-04	0.00	High
1.44E+04	0	0	260.00	7.47E-04	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:3

Number of Release Sites: 1.

Release Activity: Mahle 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.20 (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:	1.00E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:3 RELEASE ACTIVITY: Mahle 20 dy
 FACILITY NAME: DANA CORP-SANFORD ST
 FACILITY LOCATION: MUSKEGON MI 49443
 RECEIVING WATER NAME: BLACK CR
 REACH NUMBER: 04060101010 FACILITY ON REACH: No DISCHARGE TYPE: Direct
 NPDES PERMIT #: MI0004057 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.01	1.00E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	91.85	36.49	22.07	18.32	NA
CONCENTRATION (µg/L)	0.11	0.27	0.45	0.55	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 _{pot}	3.28E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.52E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.04E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 3	RELEASE ACTIVITY: Mahle 20 dy	
FACILITY NAME: DANA CORP-SANFORD ST		
FACILITY LOCATION: MUSKEGON MI 49443		
RECEIVING STREAM NAME: BLACK CR		
REACH NUMBER: 04060101010	FACILITY ON REACH: No	DISCHARGE TYPE: Direct
NPDES PERMIT NUMBER: MI0004057	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): 275.28	7q10 FLOW (MLD): 22.07	EFFLUENT FLOW (MLD):1.67

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 (%)
3.00	0	0	20.00	1.00E-02	0.00
788.00	0	0	20.00	1.00E-02	0.00
920.00	0	0	20.00	1.00E-02	0.00
1.44E+04	0	0	20.00	1.00E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:4

Number of Release Sites: 1.

Release Activity: Mahle 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.19 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	7.42E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:4 RELEASE ACTIVITY: Mahle 260 dy
 FACILITY NAME: DANA CORP-SANFORD ST
 FACILITY LOCATION: MUSKEGON MI 49443
 RECEIVING WATER NAME: BLACK CR
 REACH NUMBER: 04060101010 FACILITY ON REACH: No DISCHARGE TYPE: Direct
 NPDES PERMIT #: MI0004057 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00074	7.42E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	91.85	36.49	22.07	18.32	NA
CONCENTRATION (µg/L)	8.08E-03	2.03E-02	3.36E-02	4.05E-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 _{pot}	3.16E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.43E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	7.70E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 4 RELEASE ACTIVITY: Mahle 260 dy

FACILITY NAME: DANA CORP-SANFORD ST

FACILITY LOCATION: MUSKEGON MI 49443

RECEIVING STREAM NAME: BLACK CR

REACH NUMBER: 04060101010 FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: MI0004057 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): 275.28 7q10 FLOW (MLD): 22.07 EFFLUENT FLOW (MLD):1.67

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 (%)
3.00	0	0	260.00	7.42E-04	0.00
788.00	0	0	260.00	7.42E-04	0.00
920.00	0	0	260.00	7.42E-04	0.00
1.44E+04	0	0	260.00	7.42E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:5

Number of Release Sites: 1.

Release Activity: GE VA 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.20 (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:	1.00E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:5

RELEASE ACTIVITY: GE VA 20 dy

FACILITY NAME: GENICOM CORP.

FACILITY LOCATION: WAYNESBORO VA 22980

RECEIVING WATER NAME: SOUTH R

REACH NUMBER: 02070005027

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: VA0002402

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.01	1.00E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	303.69	163.03	103.93	85.34	NA
CONCENTRATION (µg/L)	3.29E-02	6.13E-02	9.62E-02	0.12	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 _{pot}	9.92E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	7.63E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.32E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 5

RELEASE ACTIVITY: GE VA 20 dy

FACILITY NAME: GENICOM CORP.

FACILITY LOCATION: WAYNESBORO VA 22980

RECEIVING STREAM NAME: SOUTH R

REACH NUMBER: 02070005027

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: VA0002402

GAGING STATION ID: 01626000

GAGING STATION PERIOD OF RECORD: 01/01/66 - 10/21/90

GAGING STATION NUMBER OF OBSERVATIONS: 9061.00

NUMBER OF STATIONS ON REACH: 1

50 %ile FLOW (MLD): 220.14

10 %ile FLOW (MLD): 83.16

EFFLUENT FLOW (MLD):2.46

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 (%)
3.00	0	0	20.00	1.00E-02	0.00
788.00	0	0	20.00	1.00E-02	0.00
920.00	0	0	20.00	1.00E-02	0.00
1.44E+04	0	0	20.00	1.00E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:6

Number of Release Sites: 1.

Release Activity: GE VA 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.19 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	7.33E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:6

RELEASE ACTIVITY: GE VA 260 dy

FACILITY NAME: GENICOM CORP.

FACILITY LOCATION: WAYNESBORO VA 22980

RECEIVING WATER NAME: SOUTH R

REACH NUMBER: 02070005027

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: VA0002402

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00073	7.33E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	303.69	163.03	103.93	85.34	NA
CONCENTRATION (µg/L)	2.41E-03	4.50E-03	7.05E-03	8.59E-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 _{pot}	9.46E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	7.27E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.70E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 6	RELEASE ACTIVITY: GE VA 260 dy	
FACILITY NAME: GENICOM CORP.		
FACILITY LOCATION: WAYNESBORO VA 22980		
RECEIVING STREAM NAME: SOUTH R		
REACH NUMBER: 02070005027	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT NUMBER: VA0002402	GAGING STATION ID: 01626000	
GAGING STATION PERIOD OF RECORD: 01/01/66 - 10/21/90	GAGING STATION NUMBER OF OBSERVATIONS: 9061.00	NUMBER OF STATIONS ON REACH: 1
50 %ile FLOW (MLD): 220.14	10 %ile FLOW (MLD): 83.16	EFFLUENT FLOW (MLD):2.46

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 (%)
3.00	0	0	260.00	7.33E-04	0.00
788.00	0	0	260.00	7.33E-04	0.00
920.00	0	0	260.00	7.33E-04	0.00
1.44E+04	0	0	260.00	7.33E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 11

Number of Release Sites: 1.

Release Activity: Globe 260 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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	1.73E-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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 11 RELEASE ACTIVITY: Globe 260 dy
 FACILITY NAME: WICHITA CITY OF STP
 FACILITY LOCATION: WICHITA KS 67202
 RECEIVING WATER NAME: ARKANSAS R
 REACH NUMBER: 11030013003 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: KS0043036 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00173	1.73E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	989.91	310.83	202.70	165.67	NA
CONCENTRATION (µg/L)	1.75E-03	5.57E-03	8.53E-03	1.04E-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 _{pot}	6.85E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	5.27E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.11E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 11 RELEASE ACTIVITY: Globe 260 dy
 FACILITY NAME: WICHITA CITY OF STP
 FACILITY LOCATION: WICHITA KS 67202
 RECEIVING STREAM NAME: ARKANSAS R
 REACH NUMBER: 11030013003 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT NUMBER: KS0043036 GAGING STATION ID: 07144550
 GAGING STATION PERIOD OF RECORD: 10/01/68 - 09/29/89 GAGING STATION NUMBER OF OBSERVATIONS: 7670.00 NUMBER OF STATIONS ON REACH: 1
 50 %ile FLOW (MLD): 1259.68 10 %ile FLOW (MLD): 472.07 EFFLUENT FLOW (MLD):144.69

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 (%)
3.00	0	0	260.00	1.73E-03	0.00
788.00	0	0	260.00	1.73E-03	0.00
920.00	0	0	260.00	1.73E-03	0.00
1.44E+04	0	0	260.00	1.73E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 12

Number of Release Sites: 1.

Release Activity: Globe 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.46 (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:	2.30E-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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 12 RELEASE ACTIVITY: Globe 20 dy
 FACILITY NAME: WICHITA CITY OF STP
 FACILITY LOCATION: WICHITA KS 67202
 RECEIVING WATER NAME: ARKANSAS R
 REACH NUMBER: 11030013003 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: KS0043036 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.023	2.30E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	989.91	310.83	202.70	165.67	NA
CONCENTRATION (µg/L)	2.32E-02	7.40E-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 _{pot}	7.00E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	5.39E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.80E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 12

RELEASE ACTIVITY: Globe 20 dy

FACILITY NAME: WICHITA CITY OF STP

FACILITY LOCATION: WICHITA KS 67202

RECEIVING STREAM NAME: ARKANSAS R

REACH NUMBER: 11030013003

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: KS0043036

GAGING STATION ID: 07144550

GAGING STATION PERIOD OF RECORD: 10/01/68 - 09/29/89

GAGING STATION NUMBER OF OBSERVATIONS: 7670.00

NUMBER OF STATIONS ON REACH: 1

50 %ile FLOW (MLD): 1259.68

10 %ile FLOW (MLD): 472.07

EFFLUENT FLOW (MLD): 144.69

RESULTS					
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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 (%)
3.00	0	0	20.00	2.30E-02	0.00
788.00	0	0	20.00	2.30E-02	0.00
920.00	0	0	20.00	2.30E-02	0.00
1.44E+04	0	0	20.00	2.30E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:9

Number of Release Sites: 1.

Release Activity: Gayston 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	0.16 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)

Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	8.00E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:9 RELEASE ACTIVITY: Gayston 20 dy
 FACILITY NAME: DAYTON CITY OF
 FACILITY LOCATION: DAYTON OH 45418
 RECEIVING WATER NAME: GREAT MIAMI R
 REACH NUMBER: 05080002009 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: OH0024881 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.008	8.00E-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)	3.50E-03	1.01E-02	1.50E-02	1.85E-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 _{pot}	1.06E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	8.12E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	3.84E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 9	RELEASE ACTIVITY: Gayston 20 dy	
FACILITY NAME: DAYTON CITY OF		
FACILITY LOCATION: DAYTON OH 45418		
RECEIVING STREAM NAME: GREAT MIAMI R		
REACH NUMBER: 05080002009	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT NUMBER: OH0024881	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): 272.52

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 (%)
3.00	0	0	20.00	8.00E-03	0.00
788.00	0	0	20.00	8.00E-03	0.00
920.00	0	0	20.00	8.00E-03	0.00
1.44E+04	0	0	20.00	8.00E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 10

Number of Release Sites: 1.

Release Activity: Gayston 260 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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	6.43E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 10 RELEASE ACTIVITY: Gayston 260 dy
 FACILITY NAME: DAYTON CITY OF
 FACILITY LOCATION: DAYTON OH 45418
 RECEIVING WATER NAME: GREAT MIAMI R
 REACH NUMBER: 05080002009 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: OH0024881 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00064	6.43E-04	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)	2.81E-04	8.15E-04	1.21E-03	1.49E-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 _{pot}	1.10E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	8.48E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	3.09E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 10 RELEASE ACTIVITY: Gayston 260 dy
 FACILITY NAME: DAYTON CITY OF
 FACILITY LOCATION: DAYTON OH 45418
 RECEIVING STREAM NAME: GREAT MIAMI R
 REACH NUMBER: 05080002009 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT NUMBER: OH0024881 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):272.52

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 (%)
3.00	0	0	260.00	6.43E-04	0.00
788.00	0	0	260.00	6.43E-04	0.00
920.00	0	0	260.00	6.43E-04	0.00
1.44E+04	0	0	260.00	6.43E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 11

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:	0.16 (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:	8.00E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 11 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.	0.008	8.00E-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)	1.06E-03	1.98E-03	2.78E-03	3.46E-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 _{pot}	3.20E-10 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.46E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	7.51E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 11 RELEASE ACTIVITY: Styrolution 20 dy
 FACILITY NAME: BASF - JOLIET
 FACILITY LOCATION: CHANNAHON IL 60410
 RECEIVING STREAM NAME: DES PLAINS R
 REACH NUMBER: 07120004002 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT NUMBER: IL0001619 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): 1.04E+04 7q10 FLOW (MLD): 2877.81 EFFLUENT FLOW (MLD):0.90

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 (%)
3.00	0	0	20.00	8.00E-03	0.00
788.00	0	0	20.00	8.00E-03	0.00
920.00	0	0	20.00	8.00E-03	0.00
1.44E+04	0	0	20.00	8.00E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 12

Number of Release Sites: 1.

Release Activity: Styrolution 260 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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	6.37E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 12 RELEASE ACTIVITY: Styrolution 260 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.	260.	0.00064	6.37E-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)	8.45E-05	1.58E-04	2.21E-04	2.76E-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 _{pot}	3.31E-10 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.55E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	5.98E-09 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 12 RELEASE ACTIVITY: Styrolution 260 dy

FACILITY NAME: BASF - JOLIET

FACILITY LOCATION: CHANNAHON IL 60410

RECEIVING STREAM NAME: DES PLAINS R

REACH NUMBER: 07120004002 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: IL0001619 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): 1.04E+04 7q10 FLOW (MLD): 2877.81 EFFLUENT FLOW (MLD): 0.90

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 (%)
3.00	0	0	260.00	6.37E-04	0.00
788.00	0	0	260.00	6.37E-04	0.00
920.00	0	0	260.00	6.37E-04	0.00
1.44E+04	0	0	260.00	6.37E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 13

Number of Release Sites: 1.

Release Activity: Remington 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.16 (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:	8.00E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:13 RELEASE ACTIVITY: Remington 20 dy
 FACILITY NAME: REMINGTON ARMS CO INC
 FACILITY LOCATION: ILION NY 13357
 RECEIVING WATER NAME: MOHAWK R
 REACH NUMBER: 02020004079 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: NY0005282 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.008	8.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	2103.87	1123.21	766.34	620.55	NA
CONCENTRATION (µg/L)	3.80E-03	7.12E-03	1.04E-02	1.29E-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 _{pot}	1.15E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	8.82E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.70E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 14

Number of Release Sites: 1.

Release Activity: Remington 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.16 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	6.12E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 14 RELEASE ACTIVITY: Remington 260 dy

FACILITY NAME: REMINGTON ARMS CO INC

FACILITY LOCATION: ILION NY 13357

RECEIVING WATER NAME: MOHAWK R

REACH NUMBER: 02020004079 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: NY0005282 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00061	6.12E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	2103.87	1123.21	766.34	620.55	NA
CONCENTRATION (µg/L)	2.91E-04	5.45E-04	7.99E-04	9.86E-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 _{pot}	1.14E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	8.77E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.06E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 14	RELEASE ACTIVITY: Remington 260 dy	
FACILITY NAME: REMINGTON ARMS CO INC		
FACILITY LOCATION: ILION NY 13357		
RECEIVING STREAM NAME: MOHAWK R		
REACH NUMBER: 02020004079	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT NUMBER: NY0005282	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): 3288.20	7q10 FLOW (MLD): 766.34	EFFLUENT FLOW (MLD): 1.52

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 (%)
3.00	0	0	260.00	6.12E-04	0.00
788.00	0	0	260.00	6.12E-04	0.00
920.00	0	0	260.00	6.12E-04	0.00
1.44E+04	0	0	260.00	6.12E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 17

Number of Release Sites: 1.

Release Activity: United 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.12 (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:	6.00E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 17 RELEASE ACTIVITY: United 20 dy
 FACILITY NAME: UNITED TECHNOLOGIES PRATT &
 FACILITY LOCATION: EAST HARTFORD CT 06108
 RECEIVING WATER NAME: CONNECTICUT R
 REACH NUMBER: 01080205024 FACILITY ON REACH: No DISCHARGE TYPE: Direct
 NPDES PERMIT #: CT0001376 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.006	6.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	2.20E+04	7984.60	5837.07	4659.90	NA
CONCENTRATION (µg/L)	2.73E-04	7.51E-04	1.03E-03	1.29E-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 _{pot}	8.22E-11 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	6.33E-09 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.85E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 17 RELEASE ACTIVITY: United 20 dy

FACILITY NAME: UNITED TECHNOLOGIES PRATT &

FACILITY LOCATION: EAST HARTFORD CT 06108

RECEIVING STREAM NAME: CONNECTICUT R

REACH NUMBER: 01080205024 FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: CT0001376 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): 4.39E+04 7q10 FLOW (MLD): 5837.07 EFFLUENT FLOW (MLD):219.14

RESULTS

Table with 6 columns: 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 (%). Rows show COC values of 3.00, 788.00, 920.00, and 1.44E+04.

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 18

Number of Release Sites: 1.

Release Activity: United 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.12 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	4.80E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 18 RELEASE ACTIVITY: United 260 dy

FACILITY NAME: UNITED TECHNOLOGIES PRATT &

FACILITY LOCATION: EAST HARTFORD CT 06108

RECEIVING WATER NAME: CONNECTICUT R

REACH NUMBER: 01080205024 FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT #: CT0001376 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00048	4.80E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	2.20E+04	7984.60	5837.07	4659.90	NA
CONCENTRATION (µg/L)	2.18E-05	6.01E-05	8.22E-05	1.03E-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 _{pot}	8.55E-11 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	6.58E-09 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.28E-09 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 18

RELEASE ACTIVITY: United 260 dy

FACILITY NAME: UNITED TECHNOLOGIES PRATT &

FACILITY LOCATION: EAST HARTFORD CT 06108

RECEIVING STREAM NAME: CONNECTICUT R

REACH NUMBER: 01080205024

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: CT0001376

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): 4.39E+04

7q10 FLOW (MLD): 5837.07

EFFLUENT FLOW (MLD): 219.14

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 (%)
3.00	0	0	260.00	4.80E-04	0.00
788.00	0	0	260.00	4.80E-04	0.00
920.00	0	0	260.00	4.80E-04	0.00
1.44E+04	0	0	260.00	4.80E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 19

Number of Release Sites: 1.

Release Activity: ATK 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.12 (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:	6.00E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 19

RELEASE ACTIVITY: ATK 20 dy

FACILITY NAME: ATK TACTICAL SYSTEMS CO. LLC

FACILITY LOCATION: ROCKET CENTER WV 26726

RECEIVING WATER NAME: POTOMAC R N BR

REACH NUMBER: 02070002018

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: WV0020371

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.006	6.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	747.42	248.73	160.93	131.75	NA
CONCENTRATION (µg/L)	8.03E-03	2.41E-02	3.73E-02	4.55E-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 _{pot}	2.42E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.86E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	9.14E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:20

Number of Release Sites: 1.

Release Activity: ATK 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.12 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	4.70E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:20 RELEASE ACTIVITY: ATK 260 dy

FACILITY NAME: ATK TACTICAL SYSTEMS CO. LLC

FACILITY LOCATION: ROCKET CENTER WV 26726

RECEIVING WATER NAME: POTOMAC R N BR

REACH NUMBER: 02070002018 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: WV0020371 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00047	4.70E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	747.42	248.73	160.93	131.75	NA
CONCENTRATION (µg/L)	6.29E-04	1.89E-03	2.92E-03	3.57E-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 _{pot}	2.46E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.90E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	7.16E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:25

Number of Release Sites: 1.

Release Activity: Sperry 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.00E-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:	4.00E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 25 RELEASE ACTIVITY: Sperry 20 dy

FACILITY NAME: SPERRY RUBBER AND PLASTICS CO.

FACILITY LOCATION: BROOKVILLE IN 47012

RECEIVING WATER NAME: WHITEWATER R E FK

REACH NUMBER: 05080003006 FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT #: IN0001473 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.004	4.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	280.34	92.23	57.63	47.52	NA
CONCENTRATION (µg/L)	1.43E-02	4.34E-02	6.94E-02	8.42E-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 _{pot}	4.30E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	3.31E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.64E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:26

Number of Release Sites: 1.

Release Activity: Sperry 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.53E-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:	260.00	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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 26 RELEASE ACTIVITY: Sperry 260 dy

FACILITY NAME: SPERRY RUBBER AND PLASTICS CO.

FACILITY LOCATION: BROOKVILLE IN 47012

RECEIVING WATER NAME: WHITEWATER R E FK

REACH NUMBER: 05080003006 FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT #: IN0001473 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00033	3.28E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	280.34	92.23	57.63	47.52	NA
CONCENTRATION (µg/L)	1.17E-03	3.56E-03	5.69E-03	6.90E-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 _{pot}	4.58E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	3.53E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.35E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:27

Number of Release Sites: 1.

Release Activity: Owt 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.00E-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:	4.00E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 27

RELEASE ACTIVITY: Owt 20 dy

FACILITY NAME: OWT INDUSTRIES INC

FACILITY LOCATION: PICKENS SC 29671

RECEIVING WATER NAME: TWELVEMILE CR

REACH NUMBER: 03060101029

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT #: SC0026492

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.004	4.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	382.94	228.18	147.19	120.57	NA
CONCENTRATION (µg/L)	1.04E-02	1.75E-02	2.72E-02	3.32E-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 _{pot}	3.15E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.42E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	6.64E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 27

RELEASE ACTIVITY: Owt 20 dy

FACILITY NAME: OWT INDUSTRIES INC

FACILITY LOCATION: PICKENS SC 29671

RECEIVING STREAM NAME: TWELVEMILE CR

REACH NUMBER: 03060101029

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: SC0026492

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): 615.07

7q10 FLOW (MLD): 147.19

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 (%)
3.00	0	0	20.00	4.00E-03	0.00
788.00	0	0	20.00	4.00E-03	0.00
920.00	0	0	20.00	4.00E-03	0.00
1.44E+04	0	0	20.00	4.00E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:28

Number of Release Sites: 1.

Release Activity: Owt 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.16E-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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	3.14E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:28

RELEASE ACTIVITY: Owt 260 dy

FACILITY NAME: OWT INDUSTRIES INC

FACILITY LOCATION: PICKENS SC 29671

RECEIVING WATER NAME: TWELVEMILE CR

REACH NUMBER: 03060101029

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT #: SC0026492

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00031	3.14E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	382.94	228.18	147.19	120.57	NA
CONCENTRATION (µg/L)	8.20E-04	1.38E-03	2.13E-03	2.60E-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 _{pot}	3.21E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.47E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	5.21E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 28

RELEASE ACTIVITY: Owt 260 dy

FACILITY NAME: OWT INDUSTRIES INC

FACILITY LOCATION: PICKENS SC 29671

RECEIVING STREAM NAME: TWELVEMILE CR

REACH NUMBER: 03060101029

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: SC0026492

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): 615.07

7q10 FLOW (MLD): 147.19

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 (%)
3.00	0	0	260.00	3.14E-04	0.00
788.00	0	0	260.00	3.14E-04	0.00
920.00	0	0	260.00	3.14E-04	0.00
1.44E+04	0	0	260.00	3.14E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:31

Number of Release Sites: 1.

Release Activity: Boler 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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:31

RELEASE ACTIVITY: Boler 20 dy

FACILITY NAME: HILLSDALE WWTP

FACILITY LOCATION: HILLSDALE MI 49242

RECEIVING WATER NAME: ST JOSEPH R

REACH NUMBER: 04050001043

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: MI0022136

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)	58.41	22.18	13.18	10.98	NA
CONCENTRATION (µg/L)	5.14E-02	0.14	0.23	0.27	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 _{pot}	1.55E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.19E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	5.12E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 31

RELEASE ACTIVITY: Boler 20 dy

FACILITY NAME: HILLSDALE WWTP

FACILITY LOCATION: HILLSDALE MI 49242

RECEIVING STREAM NAME: ST JOSEPH R

REACH NUMBER: 04050001043

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: MI0022136

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): 192.91

7q10 FLOW (MLD): 13.18

EFFLUENT FLOW (MLD): 5.79

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 (%)
3.00	0	0	20.00	3.00E-03	0.00
788.00	0	0	20.00	3.00E-03	0.00
920.00	0	0	20.00	3.00E-03	0.00
1.44E+04	0	0	20.00	3.00E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:32

Number of Release Sites: 1.

Release Activity: Boler 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	6.99E-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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	2.69E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:32 RELEASE ACTIVITY: Boler 260 dy

FACILITY NAME: HILLSDALE WWTP

FACILITY LOCATION: HILLSDALE MI 49242

RECEIVING WATER NAME: ST JOSEPH R

REACH NUMBER: 04050001043 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: MI0022136 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00027	2.69E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	58.41	22.18	13.18	10.98	NA
CONCENTRATION (µg/L)	4.61E-03	1.21E-02	2.04E-02	2.45E-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 _{pot}	1.80E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.39E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	4.59E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 32 RELEASE ACTIVITY: Boler 260 dy

FACILITY NAME: HILLSDALE WWTP

FACILITY LOCATION: HILLSDALE MI 49242

RECEIVING STREAM NAME: ST JOSEPH R

REACH NUMBER: 04050001043 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: MI0022136 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): 192.91 7q10 FLOW (MLD): 13.18 EFFLUENT FLOW (MLD): 5.79

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 (%)
3.00	0	0	260.00	2.69E-04	0.00
788.00	0	0	260.00	2.69E-04	0.00
920.00	0	0	260.00	2.69E-04	0.00
1.44E+04	0	0	260.00	2.69E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:33

Number of Release Sites: 1.

Release Activity: McCanna 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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:33

RELEASE ACTIVITY: McCanna 20 dy

FACILITY NAME: CARPENTERSVILLE STP

FACILITY LOCATION: CARPENTERSVILLE IL 60110

RECEIVING WATER NAME: FOX R

REACH NUMBER: 07120006001

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: IL0027944

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)	1029.38	445.34	294.11	239.76	NA
CONCENTRATION (µg/L)	2.91E-03	6.74E-03	1.02E-02	1.25E-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 _{pot}	8.78E-10 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	6.76E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.55E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 33

RELEASE ACTIVITY: McCanna 20 dy

FACILITY NAME: CARPENTERSVILLE STP

FACILITY LOCATION: CARPENTERSVILLE IL 60110

RECEIVING STREAM NAME: FOX R

REACH NUMBER: 07120006001

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: IL0027944

GAGING STATION ID: 05550000

GAGING STATION PERIOD OF
RECORD: 01/01/66 - 09/29/88

GAGING STATION
NUMBER OF
OBSERVATIONS: 8140.00

NUMBER OF STATIONS ON
REACH: 1

50 %ile FLOW (MLD): 1973.91

10 %ile FLOW (MLD): 733.79

EFFLUENT FLOW
(MLD):10.97

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 (%)
3.00	0	0	20.00	3.00E-03	0.00
788.00	0	0	20.00	3.00E-03	0.00
920.00	0	0	20.00	3.00E-03	0.00
1.44E+04	0	0	20.00	3.00E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:34

Number of Release Sites: 1.

Release Activity: McCanna 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	6.97E-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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	2.68E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:34 RELEASE ACTIVITY: McCanna 260 dy
 FACILITY NAME: CARPENTERSVILLE STP
 FACILITY LOCATION: CARPENTERSVILLE IL 60110
 RECEIVING WATER NAME: FOX R
 REACH NUMBER: 07120006001 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: IL0027944 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00027	2.68E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1029.38	445.34	294.11	239.76	NA
CONCENTRATION (µg/L)	2.60E-04	6.02E-04	9.11E-04	1.12E-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 _{pot}	1.02E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	7.85E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.28E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 34 RELEASE ACTIVITY: McCanna 260 dy

FACILITY NAME: CARPENTERSVILLE STP

FACILITY LOCATION: CARPENTERSVILLE IL 60110

RECEIVING STREAM NAME: FOX R

REACH NUMBER: 07120006001 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: IL0027944 GAGING STATION ID: 05550000

GAGING STATION PERIOD OF RECORD: 01/01/66 - 09/29/88 GAGING STATION NUMBER OF OBSERVATIONS: 8140.00 NUMBER OF STATIONS ON REACH: 1

50 %ile FLOW (MLD): 1973.91 10 %ile FLOW (MLD): 733.79 EFFLUENT FLOW (MLD):10.97

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 (%)
3.00	0	0	260.00	2.68E-04	0.00
788.00	0	0	260.00	2.68E-04	0.00
920.00	0	0	260.00	2.68E-04	0.00
1.44E+04	0	0	260.00	2.68E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:35

Number of Release Sites: 1.

Release Activity: Cutler 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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:35 RELEASE ACTIVITY: Cutler 20 dy
 FACILITY NAME: MOTOR COMPONENTS LLC
 FACILITY LOCATION: ELMIRA HEIGHTS NY 14903
 RECEIVING WATER NAME: NEWTON CR
 REACH NUMBER: 02050105007 FACILITY ON REACH: No DISCHARGE TYPE: Direct
 NPDES PERMIT #: NY0004081 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)	67.64	26.10	15.60	12.98	NA
CONCENTRATION (µg/L)	4.43E-02	0.11	0.19	0.23	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 _{pot}	1.34E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.03E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	4.35E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 35 RELEASE ACTIVITY: Cutler 20 dy

FACILITY NAME: MOTOR COMPONENTS LLC

FACILITY LOCATION: ELMIRA HEIGHTS NY 14903

RECEIVING STREAM NAME: NEWTON CR

REACH NUMBER: 02050105007 FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NY0004081 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): 216.14 7q10 FLOW (MLD): 15.60 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 (%)
3.00	0	0	20.00	3.00E-03	0.00
788.00	0	0	20.00	3.00E-03	0.00
920.00	0	0	20.00	3.00E-03	0.00
1.44E+04	0	0	20.00	3.00E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:36

Number of Release Sites: 1.

Release Activity: Cutler 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	6.19E-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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	2.38E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:36 RELEASE ACTIVITY: Cutler 260 dy
 FACILITY NAME: MOTOR COMPONENTS LLC
 FACILITY LOCATION: ELMIRA HEIGHTS NY 14903
 RECEIVING WATER NAME: NEWTON CR
 REACH NUMBER: 02050105007 FACILITY ON REACH: No DISCHARGE TYPE: Direct
 NPDES PERMIT #: NY0004081 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00024	2.38E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	67.64	26.10	15.60	12.98	NA
CONCENTRATION (µg/L)	3.52E-03	9.12E-03	1.53E-02	1.83E-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 _{pot}	1.38E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.06E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	3.45E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 36 RELEASE ACTIVITY: Cutler 260 dy
FACILITY NAME: MOTOR COMPONENTS LLC
FACILITY LOCATION: ELMIRA HEIGHTS NY 14903
RECEIVING STREAM NAME: NEWTON CR
REACH NUMBER: 02050105007 FACILITY ON REACH: No DISCHARGE TYPE: Direct
NPDES PERMIT NUMBER: NY0004081 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): 216.14 7q10 FLOW (MLD): 15.60 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 (%)
3.00	0	0	260.00	2.38E-04	0.00
788.00	0	0	260.00	2.38E-04	0.00
920.00	0	0	260.00	2.38E-04	0.00
1.44E+04	0	0	260.00	2.38E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:7

Number of Release Sites: 1.

Release Activity: USAF NE 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	4.13E-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:	260.00	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: TCE-0%

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

SCENARIO #: 7 Number of Sites: 1 RELEASE ACTIVITY:USAF NE
260 dy

SIC-CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

SIC-CODE (S): 3315-3317,3351-3357,3463,3497 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	260.	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	485.40	206.33	132.62	108.72	3.28E-04	7.71E-04	1.20E-03	1.46E-03
ALL	10	43.45	15.35	9.00	7.91	3.66E-03	1.04E-02	1.77E-02	2.01E-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 _{pot}	1.28E-09	1.43E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	9.87E-08	1.10E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	2.92E-08	3.92E-07	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 7 RELEASE ACTIVITY: USAF NE 260 dy

SIC CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

ASSOCIATED SIC CODES: 3315-3317,3351-3357,3463,3497

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
3.00	1	5	260.00	1.59E-04	0.00	High
788.00	0	0	260.00	1.59E-04	0.00	High
920.00	0	0	260.00	1.59E-04	0.00	High
1.44E+04	0	0	260.00	1.59E-04	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:8

Number of Release Sites: 1.

Release Activity: USAF NE 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	4.00E-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:	2.00E-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: TCE-0%

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

SCENARIO #: 8 Number of Sites: 1 RELEASE ACTIVITY:USAF NE
20 dy

SIC-CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

SIC-CODE (S): 3315-3317,3351-3357,3463,3497 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.002	2.00E-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	485.40	206.33	132.62	108.72	4.12E-03	9.69E-03	1.51E-02	1.84E-02
ALL	10	43.45	15.35	9.00	7.91	4.60E-02	0.13	0.22	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 _{pot}	1.24E-09	1.39E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	9.55E-08	1.07E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	3.67E-07	4.93E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 8 RELEASE ACTIVITY: USAF NE 20 dy

SIC CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

ASSOCIATED SIC CODES: 3315-3317,3351-3357,3463,3497

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
3.00	0	2	20.00	2.00E-03	0.00	High
788.00	0	0	20.00	2.00E-03	0.00	High
920.00	0	0	20.00	2.00E-03	0.00	High
1.44E+04	0	0	20.00	2.00E-03	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:39

Number of Release Sites: 1.

Release Activity: Troxel 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	4.00E-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:	2.00E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:39

RELEASE ACTIVITY: Troxel 20 dy

FACILITY NAME: TROXEL COMPANY

FACILITY LOCATION: MOSCOW TN 38057

RECEIVING WATER NAME: WOLF R

REACH NUMBER: 08010210009

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT #: TN0000451

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.002	2.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	528.09	278.30	180.78	147.88	NA
CONCENTRATION (µg/L)	3.79E-03	7.19E-03	1.11E-02	1.35E-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 _{pot}	1.14E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	8.78E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.72E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 39 RELEASE ACTIVITY: Troxel 20 dy
 FACILITY NAME: TROXEL COMPANY
 FACILITY LOCATION: MOSCOW TN 38057
 RECEIVING STREAM NAME: WOLF R
 REACH NUMBER: 08010210009 FACILITY ON REACH: No DISCHARGE TYPE: Direct
 NPDES PERMIT NUMBER: TN0000451 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): 954.64 7q10 FLOW (MLD): 180.78 EFFLUENT FLOW (MLD):1.33

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 (%)
3.00	0	0	20.00	2.00E-03	0.00
788.00	0	0	20.00	2.00E-03	0.00
920.00	0	0	20.00	2.00E-03	0.00
1.44E+04	0	0	20.00	2.00E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:40

Number of Release Sites: 1.

Release Activity: Troxel 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.48E-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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	1.34E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:40 RELEASE ACTIVITY: Troxel 260 dy
 FACILITY NAME: TROXEL COMPANY
 FACILITY LOCATION: MOSCOW TN 38057
 RECEIVING WATER NAME: WOLF R
 REACH NUMBER: 08010210009 FACILITY ON REACH: No DISCHARGE TYPE: Direct
 NPDES PERMIT #: TN0000451 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.00013	1.34E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	528.09	278.30	180.78	147.88	NA
CONCENTRATION (µg/L)	2.54E-04	4.81E-04	7.41E-04	9.06E-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 _{pot}	9.94E-10 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	7.65E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.82E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:43

Number of Release Sites: 1.

Release Activity: Austin 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.00E-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:	1.00E-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: TCE-2

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 43

RELEASE ACTIVITY: Austin 20 dy

SIC CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

ASSOCIATED SIC CODES: 3315-3317,3351-3357,3463,3497

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
3.00	0	1	20.00	1.00E-03	0.00	High
788.00	0	0	20.00	1.00E-03	0.00	High
920.00	0	0	20.00	1.00E-03	0.00	High
1.44E+04	0	0	20.00	1.00E-03	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:44

Number of Release Sites: 1.

Release Activity: Austin 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.96E-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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	1.14E-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: TCE-2

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

SCENARIO #: 44 Number of Sites: 1 RELEASE ACTIVITY: Austin 260 dy

SIC-CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

SIC-CODE (S): 3315-3317,3351-3357,3463,3497 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	260.	0.00011	1.14E-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	485.40	206.33	132.62	108.72	2.35E-04	5.53E-04	8.60E-04	1.05E-03
ALL	10	43.45	15.35	9.00	7.91	2.62E-03	7.43E-03	1.27E-02	1.44E-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 _{pot}	9.20E-10	1.03E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	7.08E-08	7.91E-07	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	2.09E-08	2.81E-07	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 44

RELEASE ACTIVITY: Austin 260 dy

SIC CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

ASSOCIATED SIC CODES: 3315-3317,3351-3357,3463,3497

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
3.00	1	3	260.00	1.14E-04	0.00	High
788.00	0	0	260.00	1.14E-04	0.00	High
920.00	0	0	260.00	1.14E-04	0.00	High
1.44E+04	0	0	260.00	1.14E-04	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:45

Number of Release Sites: 1.

Release Activity: LS Starrett 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.00E-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:	1.00E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 45 RELEASE ACTIVITY: LS Starrett 20 dy
 FACILITY NAME: L.S. STARRETT COMPANY
 FACILITY LOCATION: ATHOL MA 01331
 RECEIVING WATER NAME: MILLERS R
 REACH NUMBER: 01080202009 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: MA0001350 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.001	1.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	300.45	106.36	66.79	55.02	NA
CONCENTRATION (µg/L)	3.33E-03	9.40E-03	1.50E-02	1.82E-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 _{pot}	1.00E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	7.72E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	3.56E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 45 RELEASE ACTIVITY: LS Starrett 20 dy

FACILITY NAME: L.S. STARRETT COMPANY

FACILITY LOCATION: ATHOL MA 01331

RECEIVING STREAM NAME: MILLERS R

REACH NUMBER: 01080202009 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: MA0001350 GAGING STATION ID: 01164000

GAGING STATION PERIOD OF RECORD: 01/01/66 - 10/30/90 GAGING STATION NUMBER OF OBSERVATIONS: 9063.00 NUMBER OF STATIONS ON REACH: 1

50 %ile FLOW (MLD): 574.81 10 %ile FLOW (MLD): 156.54 EFFLUENT FLOW (MLD):0.14

RESULTS					
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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 (%)
3.00	0	0	20.00	1.00E-03	0.00
788.00	0	0	20.00	1.00E-03	0.00
920.00	0	0	20.00	1.00E-03	0.00
1.44E+04	0	0	20.00	1.00E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:46

Number of Release Sites: 1.

Release Activity: LS Starrett 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.65E-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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	1.02E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 46 RELEASE ACTIVITY: LS Starrett 260 dy
 FACILITY NAME: L.S. STARRETT COMPANY
 FACILITY LOCATION: ATHOL MA 01331
 RECEIVING WATER NAME: MILLERS R
 REACH NUMBER: 01080202009 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: MA0001350 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	260.	0.0001	1.02E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	300.45	106.36	66.79	55.02	NA
CONCENTRATION (µg/L)	3.39E-04	9.59E-04	1.53E-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 _{pot}	1.33E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.02E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	3.63E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 46

RELEASE ACTIVITY: LS Starrett 260 dy

FACILITY NAME: L.S. STARRETT COMPANY

FACILITY LOCATION: ATHOL MA 01331

RECEIVING STREAM NAME: MILLERS R

REACH NUMBER: 01080202009

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: MA0001350

GAGING STATION ID: 01164000

GAGING STATION PERIOD OF RECORD: 01/01/66 - 10/30/90

GAGING STATION NUMBER OF OBSERVATIONS: 9063.00

NUMBER OF STATIONS ON REACH: 1

50 %ile FLOW (MLD): 574.81

10 %ile FLOW (MLD): 156.54

EFFLUENT FLOW (MLD): 0.14

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 (%)
3.00	0	0	260.00	1.02E-04	0.00
788.00	0	0	260.00	1.02E-04	0.00
920.00	0	0	260.00	1.02E-04	0.00
1.44E+04	0	0	260.00	1.02E-04	0.00

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 (%)
3.00	0	0	260.00	1.02E-04	0.00
788.00	0	0	260.00	1.02E-04	0.00
920.00	0	0	260.00	1.02E-04	0.00
1.44E+04	0	0	260.00	1.02E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:49

Number of Release Sites: 1.

Release Activity: Avx 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.00E-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:	1.00E-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: TCE-2

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

SCENARIO #: 49 Number of Sites: 1 RELEASE ACTIVITY: Avx 20 dy

SIC-CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

SIC-CODE (S): 3315-3317,3351-3357,3463,3497 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.001	1.00E-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	485.40	206.33	132.62	108.72	2.06E-03	4.85E-03	7.54E-03	9.20E-03
ALL	10	43.45	15.35	9.00	7.91	2.30E-02	6.51E-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 _{pot}	6.21E-10	6.94E-09	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	4.78E-08	5.34E-07	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	1.84E-07	2.47E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 49

RELEASE ACTIVITY: Avx 20 dy

SIC CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

ASSOCIATED SIC CODES: 3315-3317,3351-3357,3463,3497

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
3.00	0	1	20.00	1.00E-03	0.00	High
788.00	0	0	20.00	1.00E-03	0.00	High
920.00	0	0	20.00	1.00E-03	0.00	High
1.44E+04	0	0	20.00	1.00E-03	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:50

Number of Release Sites: 1.

Release Activity: Avx 260 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.30E-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:	260.00	0.00/0.00	N/A	N/A
Per Site Release:	8.83E-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: TCE-2

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

SCENARIO #: 50 Number of Sites: 1 RELEASE ACTIVITY: Avx 260 dy

SIC-CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

SIC-CODE (S): 3315-3317,3351-3357,3463,3497 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	260.	0.00009	8.83E-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	485.40	206.33	132.62	108.72	1.82E-04	4.28E-04	6.66E-04	8.12E-04
ALL	10	43.45	15.35	9.00	7.91	2.03E-03	5.75E-03	9.81E-03	1.12E-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 _{pot}	7.13E-10	7.96E-09	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	5.48E-08	6.12E-07	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	1.62E-08	2.18E-07	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 50

RELEASE ACTIVITY: Avx 260 dy

SIC CODE DESCRIPTION: Primary Metal Forming Manuf. (major users of metal working fluids)

ASSOCIATED SIC CODES: 3315-3317,3351-3357,3463,3497

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
3.00	0	2	260.00	8.80E-05	0.00	High
788.00	0	0	260.00	8.80E-05	0.00	High
920.00	0	0	260.00	8.80E-05	0.00	High
1.44E+04	0	0	260.00	8.80E-05	0.00	High

SPOT CLEANING AND CARPET CLEANING

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:47

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:	2.00E-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:	1.00E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:47 RELEASE ACTIVITY: Boise 20 dy
 FACILITY NAME: BOISE CITY OF
 FACILITY LOCATION: BOISE ID 83714
 RECEIVING WATER NAME: BOISE R
 REACH NUMBER: 17050114026 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: ID0023981 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.001	1.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	390.93	34.18	20.62	20.62	NA
CONCENTRATION (µg/L)	2.56E-03	2.93E-02	4.85E-02	4.85E-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 _{pot}	7.71E-10 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	5.93E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.11E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:48

Number of Release Sites: 1.

Release Activity: Boise 300 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.40E-02	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:	8.00E-05	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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:48 RELEASE ACTIVITY: Boise 300 dy
 FACILITY NAME: BOISE CITY OF
 FACILITY LOCATION: BOISE ID 83714
 RECEIVING WATER NAME: BOISE R
 REACH NUMBER: 17050114026 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: ID0023981 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	300.	0.00008	8.00E-05	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	390.93	34.18	20.62	20.62	NA
CONCENTRATION (µg/L)	2.05E-04	2.34E-03	3.88E-03	3.88E-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 _{pot}	9.25E-10 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	7.12E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	8.87E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

REPACKAGING

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 19

Number of Release Sites: 1.

Release Activity: Hubbard 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	277.50 (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:	1.11 (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: TCE-81

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

SCENARIO #: 19 Number of Sites: 1 RELEASE ACTIVITY: Hubbard
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)
81.00	250.	1.11	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	0.73	1.70	2.70	3.19
ALL	10	39.60	13.29	7.76	7.57	5.33	15.87	27.18	27.86

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 _{pot}	2.76E-06	2.01E-05	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	2.12E-04	1.54E-03	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	6.45E-05	6.01E-04	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:20

Number of Release Sites: 1.

Release Activity: Hubbard 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	277.00 (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:	13.85 (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: TCE-81

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

SCENARIO #: 20 Number of Sites: 1 RELEASE ACTIVITY: Hubbard
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)
81.00	20.	13.85	2.63	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	9.14	21.25	33.66	39.84
ALL	10	39.60	13.29	7.76	7.57	66.45	198.01	339.11	347.62

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 _{pot}	2.75E-06	2.00E-05	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	2.12E-04	1.54E-03	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	8.05E-04	7.50E-03	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 20 RELEASE ACTIVITY: Hubbard 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
3.00	5	20	20.00	13.85	81.00	High
788.00	0	1	20.00	13.85	81.00	High
920.00	0	1	20.00	13.85	81.00	High
1.44E+04	0	0	20.00	13.85	81.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 11

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:	0.75 (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:	3.00E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 11 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.	0.003	3.00E-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)	0.32	3.46	6.52	7.65	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 _{pot}	1.20E-06 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	9.24E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.31E-04 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 11 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 OBSERVATIONS: N/A NUMBER OF STATIONS ON REACH: 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 (%)
3.00	1	2	250.00	3.00E-03	0.00
788.00	0	0	250.00	3.00E-03	0.00
920.00	0	0	250.00	3.00E-03	0.00
1.44E+04	0	0	250.00	3.00E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 12

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:	0.82 (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:	4.10E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 12 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.	0.041	4.10E-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)	4.36	47.26	89.13	104.50	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 _{pot}	1.31E-06 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.01E-04 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.79E-03 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 12

RELEASE ACTIVITY: Oiltanking 20 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 OBSERVATIONS: N/A

NUMBER OF STATIONS ON REACH: 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 (%)
3.00	1	4	20.00	4.10E-02	0.00
788.00	0	0	20.00	4.10E-02	0.00
920.00	0	0	20.00	4.10E-02	0.00
1.44E+04	0	0	20.00	4.10E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:29

Number of Release Sites: 1.

Release Activity: St. Gab 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.38 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	6.90E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 29

RELEASE ACTIVITY: St. Gab 20 dy

FACILITY NAME: SYNGENTA CROP PROTECTIONS INC

FACILITY LOCATION: ST. GABRIEL LA 70776

RECEIVING WATER NAME: MISSISSIPPI R

REACH NUMBER: 08070100007

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: LA0005487

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.069	6.90E-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)	8.50E-05	2.32E-04	2.79E-04	3.59E-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 _{pot}	2.56E-11 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.97E-09 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	8.78E-09 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:30

Number of Release Sites: 1.

Release Activity: St. Gab 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.38 (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:	5.50E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:30

RELEASE ACTIVITY: St. Gab 250 dy

FACILITY NAME: SYNGENTA CROP PROTECTIONS INC

FACILITY LOCATION: ST. GABRIEL LA 70776

RECEIVING WATER NAME: MISSISSIPPI R

REACH NUMBER: 08070100007

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: LA0005487

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.0055	5.50E-03	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)	6.77E-06	1.85E-05	2.23E-05	2.86E-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 _{pot}	2.55E-11 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.96E-09 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	7.00E-10 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:35

Number of Release Sites: 1.

Release Activity: Vopak 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.16 (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:	5.80E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:35

RELEASE ACTIVITY: Vopak 20 dy

FACILITY NAME: JEFFERSON PARISH-BRIDGE CITY

FACILITY LOCATION: BRIDGE CITY LA 70094

RECEIVING WATER NAME: MISSISSIPPI R

REACH NUMBER: 08090100004

FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT #: LA0042064

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.058	5.80E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8.13E+05	2.98E+05	2.47E+05	1.92E+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 _{pot}	2.15E-11 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.65E-09 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	7.38E-09 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:36

Number of Release Sites: 1.

Release Activity: Vopak 250 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:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	4.68E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:36

RELEASE ACTIVITY: Vopak 250 dy

FACILITY NAME: JEFFERSON PARISH-BRIDGE CITY

FACILITY LOCATION: BRIDGE CITY LA 70094

RECEIVING WATER NAME: MISSISSIPPI R

REACH NUMBER: 08090100004

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT #: LA0042064

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.00468	4.68E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8.13E+05	2.98E+05	2.47E+05	1.92E+05	NA
CONCENTRATION (µg/L)	5.76E-06	1.57E-05	1.89E-05	2.44E-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 _{pot}	2.17E-11 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.67E-09 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	5.96E-10 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

PROCESS SOLVENT RECYCLING

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 13

Number of Release Sites: 1.

Release Activity: CWNY 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.00 (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:	4.00E-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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 13	RELEASE ACTIVITY: CWNV 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	0.004	4.00E-03	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	11.76
CHRONIC SCENARIO	10.00	1.18

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 14

Number of Release Sites: 1.

Release Activity: CWNY 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	0.94 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)

Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	4.70E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 14	RELEASE ACTIVITY: CWNV 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	0.047	4.70E-02	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	138.24
CHRONIC SCENARIO	10.00	13.82

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 12

Number of Release Sites: 1.

Release Activity: Veolia 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	6025.00 (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:	24.10 (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: TCE-81

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 12	RELEASE ACTIVITY: Veolia 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)
81.	250.	321.00	24.1	4.58	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	5.00	2.85
CHRONIC SCENARIO	10.00	1.43

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 13

Number of Release Sites: 1.

Release Activity: Veolia 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	6035.60 (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:	301.78 (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: TCE-81

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 13	RELEASE ACTIVITY: Veolia 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)
81.	20.	321.00	301.78	57.34	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	5.00	35.72
CHRONIC SCENARIO	10.00	17.86

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 14

Number of Release Sites: 1.

Release Activity: Clean TX 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	87.50	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:	0.35	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: TCE-81

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

SCENARIO #: 14 Number of Sites: 1 RELEASE ACTIVITY: Clean 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)
81.00	250.	0.35	6.65E-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	0.23	0.54	0.85	1.01
ALL	10	39.60	13.29	7.76	7.57	1.68	5.00	8.57	8.78

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 _{pot}	8.70E-07	6.33E-06	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	6.69E-05	4.87E-04	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	2.03E-05	1.90E-04	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 15

Number of Release Sites: 1.

Release Activity: Clean TX 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	87.20 (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:	4.36 (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: TCE-81

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

SCENARIO #: 15 Number of Sites: 1 RELEASE ACTIVITY: Clean TX
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)
81.00	20.	4.36	0.83	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	2.88	6.69	10.60	12.54
ALL	10	39.60	13.29	7.76	7.57	20.92	62.33	106.75	109.43

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 _{pot}	8.67E-07	6.30E-06	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	6.67E-05	4.85E-04	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	2.53E-04	2.36E-03	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 15 RELEASE ACTIVITY: Clean TX 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
3.00	5	19	20.00	4.36	81.00	High
788.00	0	0	20.00	4.36	81.00	High
920.00	0	0	20.00	4.36	81.00	High
1.44E+04	0	0	20.00	4.36	81.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 16

Number of Release Sites: 1.

Release Activity: Clean AR 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	10.00 (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:	4.00E-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: TCE-81

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

SCENARIO #: 16 Number of Sites: 1 RELEASE ACTIVITY: Clean 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)
81.00	250.	0.04	7.60E-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	2.64E-02	6.14E-02	9.72E-02	0.12
ALL	10	39.60	13.29	7.76	7.57	0.19	0.57	0.98	1.00

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 _{pot}	9.94E-08	7.23E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	7.65E-06	5.56E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	2.32E-06	2.17E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 16 RELEASE ACTIVITY: Clean AR 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
3.00	2	6	250.00	4.00E-02	81.00	High
788.00	0	0	250.00	4.00E-02	81.00	High
920.00	0	0	250.00	4.00E-02	81.00	High
1.44E+04	0	0	250.00	4.00E-02	81.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 17

Number of Release Sites: 1.

Release Activity: Clean 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	9.20 (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:	0.46 (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: TCE-81

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

SCENARIO #: 17 Number of Sites: 1 RELEASE ACTIVITY: Clean 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)
81.00	20.	0.46	8.74E-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	0.71	1.12	1.32
ALL	10	39.60	13.29	7.76	7.57	2.21	6.58	11.26	11.55

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 _{pot}	9.15E-08	6.65E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	7.04E-06	5.12E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	2.67E-05	2.49E-04	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 17

RELEASE ACTIVITY: Clean 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
3.00	3	11	20.00	0.46	81.00	High
788.00	0	0	20.00	0.46	81.00	High
920.00	0	0	20.00	0.46	81.00	High
1.44E+04	0	0	20.00	0.46	81.00	High

ADHESIVES

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE 81%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 1

Number of Release Sites: 1.

Release Activity: Able 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	74.50 (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:	0.30 (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: TCE 81%

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

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

SIC-CODE DESCRIPTION: Adhesives and Sealants Manufacture

SIC-CODE (S): 2891 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
81.00	250.	0.298	5.66E-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	226.89	125.13	79.03	65.02	0.25	0.45	0.72	0.87
ALL	10	66.08	13.33	7.78	6.51	0.86	4.25	7.28	8.70

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 _{pot}	9.40E-07	3.23E-06	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	7.23E-05	2.48E-04	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	1.71E-05	1.61E-04	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 1

Number of Release Sites: 1.

Release Activity: Garlock 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.25E-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:	3.30E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:1 RELEASE ACTIVITY: Garlock 250 dy

FACILITY NAME: GARLOCK INC

FACILITY LOCATION: PALMYRA NY 145229350

RECEIVING WATER NAME: RED CR

REACH NUMBER: 04140201015 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: NY0000078 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.00033	3.30E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	131.21	74.37	46.12	38.09	NA
CONCENTRATION (µg/L)	2.52E-03	4.44E-03	7.16E-03	8.66E-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 _{pot}	9.47E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	7.29E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.68E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:2

Number of Release Sites: 1.

Release Activity: Garlock 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.20E-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:	4.10E-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: TCE

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

SCENARIO NUMBER: 2

RELEASE ACTIVITY: Garlock 20 dy

FACILITY NAME: GARLOCK INC

FACILITY LOCATION: PALMYRA NY 145229350

RECEIVING WATER NAME: RED CR

REACH NUMBER: 04140201015

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: NY0000078

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.0041	4.10E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	131.21	74.37	46.12	38.09	NA
CONCENTRATION (µg/L)	3.12E-02	5.51E-02	8.89E-02	0.11	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 _{pot}	9.42E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	7.24E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.09E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 2

RELEASE ACTIVITY: Garlock 20 dy

FACILITY NAME: GARLOCK INC

FACILITY LOCATION: PALMYRA NY 145229350

RECEIVING STREAM NAME: RED CR

REACH NUMBER: 04140201015

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NY0000078

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): 247.55

7q10 FLOW (MLD): 46.12

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 (%)
3.00	0	0	20.00	4.10E-03	0.00
788.00	0	0	20.00	4.10E-03	0.00
920.00	0	0	20.00	4.10E-03	0.00
1.44E+04	0	0	20.00	4.10E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:3

Number of Release Sites: 1.

Release Activity: 0.013 kg/site/dy 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	3.25 (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:	1.30E-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: TCE

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO #: 3

Number of Sites: 1

RELEASE ACTIVITY: 0.013
kg/site/dy 250 dy

SIC-CODE DESCRIPTION: Adhesives and Sealants Manufacture

SIC-CODE (S): 2891

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	250.	0.013	1.30E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
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PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	226.89	125.13	79.03	65.02	5.73E-02	0.10	0.16	0.20
ALL	10	66.08	13.33	7.78	6.51	0.20	0.98	1.67	2.00

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
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Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	2.16E-07	7.41E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	1.66E-05	5.70E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	3.93E-06	3.69E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SIC CODE EXPOSURES TO SURFACE WATER RELEASES
--

SCENARIO #: 3

RELEASE ACTIVITY: 0.013 kg/site/dy 250 dy

SIC CODE DESCRIPTION: Adhesives and Sealants Manufacture

ASSOCIATED SIC CODES: 2891

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
3.00	0	0	250.00	1.30E-02	0.00	High
788.00	0	0	250.00	1.30E-02	0.00	High
920.00	0	0	250.00	1.30E-02	0.00	High
1.44E+04	0	0	250.00	1.30E-02	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:4

Number of Release Sites: 1.

Release Activity: 0.16 kg/site/dy 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	3.20 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)

Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	0.16 (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: TCE

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

SCENARIO #: 4 Number of Sites: 1 RELEASE ACTIVITY: 0.16 kg/site/dy 20 dy

SIC-CODE DESCRIPTION: Adhesives and Sealants Manufacture

SIC-CODE (S): 2891 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.00	20.	0.16	0.16	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	226.89	125.13	79.03	65.02	0.71	1.28	2.02	2.46
ALL	10	66.08	13.33	7.78	6.51	2.42	12.00	20.57	24.58

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 _{pot}	2.13E-07	7.30E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	1.63E-05	5.61E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	4.84E-05	4.55E-04	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 4 RELEASE ACTIVITY: 0.16 kg/site/dy 20 dy

SIC CODE DESCRIPTION: Adhesives and Sealants Manufacture

ASSOCIATED SIC CODES: 2891

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
3.00	1	3	20.00	0.16	0.00	High
788.00	0	0	20.00	0.16	0.00	High
920.00	0	0	20.00	0.16	0.00	High
1.44E+04	0	0	20.00	0.16	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE 81%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:2

Number of Release Sites: 1.

Release Activity: 0.013 kg/site/dy 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.25 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	1.30E-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: TCE 81%

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

SCENARIO #: 2 Number of Sites: 1 RELEASE ACTIVITY:0.013 kg/site/dy 250 dy

SIC-CODE DESCRIPTION: Adhesives and Sealants Manufacture

SIC-CODE (S): 2891 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
81.00	250.	0.013	2.47E-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	226.89	125.13	79.03	65.02	1.09E-02	1.97E-02	3.13E-02	3.80E-02
ALL	10	66.08	13.33	7.78	6.51	3.74E-02	0.19	0.32	0.38

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 _{pot}	4.10E-08	1.41E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	3.15E-06	1.08E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	7.48E-07	7.02E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE 81%

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 2 RELEASE ACTIVITY: 0.013 kg/site/dy 250 dy

SIC CODE DESCRIPTION: Adhesives and Sealants Manufacture

ASSOCIATED SIC CODES: 2891

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
3.00	0	0	250.00	1.30E-02	81.00	High
788.00	0	0	250.00	1.30E-02	81.00	High
920.00	0	0	250.00	1.30E-02	81.00	High
1.44E+04	0	0	250.00	1.30E-02	81.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:5

Number of Release Sites: 1.

Release Activity: Delphi 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.25 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	1.30E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 5 RELEASE ACTIVITY: Delphi 250 dy

FACILITY NAME: DELPHI HARRISON THERMAL SYS

FACILITY LOCATION: LOCKPORT NY 14094

RECEIVING WATER NAME: EIGHTEENMILE CR E BR

REACH NUMBER: 04130001018 FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT #: NY0000558 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.013	1.30E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	41.37	20.01	11.85	11.85	NA
CONCENTRATION (µg/L)	0.31	0.65	1.10	1.10	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 _{pot}	1.18E-06 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	9.11E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.46E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 5

RELEASE ACTIVITY: Delphi 250 dy

FACILITY NAME: DELPHI HARRISON THERMAL SYS

FACILITY LOCATION: LOCKPORT NY 14094

RECEIVING STREAM NAME: EIGHTEENMILE CR E BR

REACH NUMBER: 04130001018

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NY0000558

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): 105.35

7q10 FLOW (MLD): 11.85

EFFLUENT FLOW (MLD):11.85

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 (%)
3.00	0	2	250.00	1.30E-02	0.00
788.00	0	0	250.00	1.30E-02	0.00
920.00	0	0	250.00	1.30E-02	0.00
1.44E+04	0	0	250.00	1.30E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:6

Number of Release Sites: 1.

Release Activity: Delphi 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.20 (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:	0.16 (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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:6 RELEASE ACTIVITY: Delphi 20 dy

FACILITY NAME: DELPHI HARRISON THERMAL SYS

FACILITY LOCATION: LOCKPORT NY 14094

RECEIVING WATER NAME: EIGHTEENMILE CR E BR

REACH NUMBER: 04130001018 FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT #: NY0000558 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.16	0.16	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	41.37	20.01	11.85	11.85	NA
CONCENTRATION (µg/L)	3.87	7.99	13.50	13.50	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 _{pot}	1.17E-06 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	8.97E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	3.03E-04 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:7

Number of Release Sites: 1.

Release Activity: Olin 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.25 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	1.30E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 7

RELEASE ACTIVITY: Olin 250 dy

FACILITY NAME: OLIN BRASS AND WINCHESTER INC

FACILITY LOCATION: EAST ALTON IL 62024

RECEIVING STREAM NAME: WOOD R

REACH NUMBER: 07110009002

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: IL0000230

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): 214.79

7q10 FLOW (MLD): 70.93

EFFLUENT FLOW (MLD):39.54

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 (%)
3.00	0	0	250.00	1.30E-02	0.00
788.00	0	0	250.00	1.30E-02	0.00
920.00	0	0	250.00	1.30E-02	0.00
1.44E+04	0	0	250.00	1.30E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:8

Number of Release Sites: 1.

Release Activity: Olin 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.20 (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:	0.16 (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: TCE

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

SCENARIO NUMBER:8

RELEASE ACTIVITY: Olin 20 dy

FACILITY NAME: OLIN BRASS AND WINCHESTER INC

FACILITY LOCATION: EAST ALTON IL 62024

RECEIVING WATER NAME: WOOD R

REACH NUMBER: 07110009002

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: IL0000230

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.16	0.16	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	155.60	112.72	70.93	58.40	NA
CONCENTRATION (µg/L)	1.03	1.42	2.26	2.74	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 _{pot}	3.10E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.38E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	5.38E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:9

Number of Release Sites: 1.

Release Activity: AeroCA 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.25 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	1.30E-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: TCE

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

SCENARIO NUMBER:9

RELEASE ACTIVITY: AeroCA 250 dy

FACILITY NAME: AEROJET GENERAL CORPORATION

FACILITY LOCATION: RANCHO CORDOVA CA 95743

RECEIVING WATER NAME: SACRAMENTO R

REACH NUMBER: 18020109005

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT #: CA0004111

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.013	1.30E-02	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)	2.95E-04	6.19E-04	8.18E-04	1.03E-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 _{pot}	1.11E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	8.55E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.34E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 10

Number of Release Sites: 1.

Release Activity: AeroCA 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.20 (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:	0.16 (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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:10

RELEASE ACTIVITY: AeroCA 20 dy

FACILITY NAME: AEROJET GENERAL CORPORATION

FACILITY LOCATION: RANCHO CORDOVA CA 95743

RECEIVING WATER NAME: SACRAMENTO R

REACH NUMBER: 18020109005

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT #: CA0004111

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.16	0.16	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)	3.63E-03	7.62E-03	1.01E-02	1.27E-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 _{pot}	1.09E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	8.42E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.89E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 11

Number of Release Sites: 1.

Release Activity: Amphenol 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.25 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	1.30E-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: TCE

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

SCENARIO NUMBER: 11

RELEASE ACTIVITY: Amphenol 250 dy

FACILITY NAME: AEROSPACE OPERATIONS

FACILITY LOCATION: SIDNEY NY 13838

RECEIVING WATER NAME: SUSQUEHANNA R

REACH NUMBER: 02050101009

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: NY0003824

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.013	1.30E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1134.35	315.59	205.91	168.28	NA
CONCENTRATION (µg/L)	1.15E-02	4.12E-02	6.31E-02	7.73E-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 _{pot}	4.32E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	3.32E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.56E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 12

Number of Release Sites: 1.

Release Activity: Amphenol 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.20 (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:	0.16 (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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 12 RELEASE ACTIVITY: Amphenol 20 dy

FACILITY NAME: AEROSPACE OPERATIONS

FACILITY LOCATION: SIDNEY NY 13838

RECEIVING WATER NAME: SUSQUEHANNA R

REACH NUMBER: 02050101009 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: NY0003824 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.16	0.16	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1134.35	315.59	205.91	168.28	NA
CONCENTRATION (µg/L)	0.14	0.51	0.78	0.95	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 _{pot}	4.25E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	3.27E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.92E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 12

RELEASE ACTIVITY: Amphenol 20 dy

FACILITY NAME: AEROSPACE OPERATIONS

FACILITY LOCATION: SIDNEY NY 13838

RECEIVING STREAM NAME: SUSQUEHANNA R

REACH NUMBER: 02050101009

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NY0003824

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): 4129.08

7q10 FLOW (MLD): 205.91

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 (%)
3.00	0	0	20.00	0.16	0.00
788.00	0	0	20.00	0.16	0.00
920.00	0	0	20.00	0.16	0.00
1.44E+04	0	0	20.00	0.16	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 13

Number of Release Sites: 1.

Release Activity: Raytheon 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.25 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	1.30E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 13	RELEASE ACTIVITY: Raytheon 250 dy	
FACILITY NAME: RAYTHEON SYSTEMS COMPANY N&MIS		
FACILITY LOCATION: PORTSMOUTH RI 02871		
RECEIVING WATER NAME: RHODE ISLAND		
REACH NUMBER: 01090004002	FACILITY ON REACH: No	DISCHARGE TYPE: Direct
NPDES PERMIT #: RI0000281	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.	1.00E-02	0.013	1.30E-02	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	120.00	10.83
CHRONIC SCENARIO	120.00	10.83

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 14

Number of Release Sites: 1.

Release Activity: Raytheon 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.20 (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:	0.16 (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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 14	RELEASE ACTIVITY: Raytheon 20 dy	
FACILITY NAME: RAYTHEON SYSTEMS COMPANY N&MIS		
FACILITY LOCATION: PORTSMOUTH RI 02871		
RECEIVING WATER NAME: RHODE ISLAND		
REACH NUMBER: 01090004002	FACILITY ON REACH: No	DISCHARGE TYPE: Direct
NPDES PERMIT #: RI0000281	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	0.16	0.16	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	120.00	133.33
CHRONIC SCENARIO	120.00	133.33

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

Lakes Comments:

INDUSTRIAL PROCESSING AID

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 1

Number of Release Sites: 1.

Release Activity: Occ 300 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	5.70	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:	1.90E-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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 1	RELEASE ACTIVITY: Occ 300 dy	
FACILITY NAME: OCCIDENTAL CHEMICAL CORP		
FACILITY LOCATION: NIAGARA FALLS NY 14302		
RECEIVING WATER NAME: NIAGARA R		
REACH NUMBER: 04120104003	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: NY0003336	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.	300.	131.81	0.019	1.90E-02	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	0.14
CHRONIC SCENARIO	1.00	0.14

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 16

Number of Release Sites: 1.

Release Activity: Occidental 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	5.80	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:	0.29	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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 16	RELEASE ACTIVITY: Occidental 20 dy	
FACILITY NAME: OCCIDENTAL CHEMICAL CORP		
FACILITY LOCATION: NIAGARA FALLS NY 14302		
RECEIVING WATER NAME: NIAGARA R		
REACH NUMBER: 04120104003	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: NY0003336	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.	131.81	0.29	0.29	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	2.20
CHRONIC SCENARIO	1.00	2.20

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:2

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:	0.30	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:	1.00E-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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:2

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.	0.001	1.00E-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)	1.60E-04	2.97E-04	4.19E-04	5.21E-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 _{pot}	7.23E-10 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	5.56E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.13E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 18

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:	0.16	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:	8.00E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 18 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.	0.008	8.00E-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)	1.28E-03	2.38E-03	3.35E-03	4.17E-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 _{pot}	3.86E-10 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.97E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	9.00E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 18 RELEASE ACTIVITY: Stepan 20 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 (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
3.00	0	0	20.00	8.00E-03	0.00
788.00	0	0	20.00	8.00E-03	0.00
920.00	0	0	20.00	8.00E-03	0.00
1.44E+04	0	0	20.00	8.00E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 1

Number of Release Sites: 1.

Release Activity: Entek 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 REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

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

SCENARIO #: 1 Number of Sites: 1 RELEASE ACTIVITY:Entek 300 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)
81.00	300.	0.38	7.22E-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	0.25	0.58	0.92	1.09
ALL	10	39.60	13.29	7.76	7.57	1.82	5.43	9.30	9.54

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 _{pot}	1.13E-06	8.24E-06	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	8.72E-05	6.34E-04	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	2.21E-05	2.06E-04	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1 RELEASE ACTIVITY: Entek 300 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
3.00	38	140	300.00	0.38	81.00	High
788.00	0	0	300.00	0.38	81.00	High
920.00	0	0	300.00	0.38	81.00	High
1.44E+04	0	0	300.00	0.38	81.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:2

Number of Release Sites: 1.

Release Activity: Entek 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	113.00 (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:	5.65 (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: TCE-81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:3

Number of Release Sites: 1.

Release Activity: NECP 300 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:	300.00	0.00/0.00	N/A	N/A
Per Site Release:	8.00E-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: TCE-81

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:3 RELEASE ACTIVITY: NECP 300 dy

FACILITY NAME: FOSTORIA CITY OF

FACILITY LOCATION: FOSTORIA OH 44830

RECEIVING WATER NAME: PORTAGE R E BR

REACH NUMBER: 04100010009 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: OH0052744 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
81.	300.	0.008	1.52E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	45.23	16.72	9.84	9.84	NA
CONCENTRATION (µg/L)	3.36E-02	9.09E-02	0.15	0.15	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 _{pot}	1.52E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.17E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	3.44E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:4

Number of Release Sites: 1.

Release Activity: NECP 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.40	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:	0.12	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: TCE-81

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:4 RELEASE ACTIVITY: NECP 20 dy

FACILITY NAME: FOSTORIA CITY OF

FACILITY LOCATION: FOSTORIA OH 44830

RECEIVING WATER NAME: PORTAGE R E BR

REACH NUMBER: 04100010009 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: OH0052744 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
81.	20.	0.12	2.28E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	45.23	16.72	9.84	9.84	NA
CONCENTRATION (µg/L)	0.50	1.36	2.32	2.32	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 _{pot}	1.52E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.17E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	5.16E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:5

Number of Release Sites: 1.

Release Activity: PPG 300 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.50	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:	5.00E-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: TCE-81

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:6

Number of Release Sites: 1.

Release Activity: PPG 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	1.40	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:	7.00E-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: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 19

Number of Release Sites: 1.

Release Activity: Daramic 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.28 (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 EXPOSURE REVIEW REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 19

RELEASE ACTIVITY: Daramic 20 dy

FACILITY NAME: CORYDON MUNICIPAL STP

FACILITY LOCATION: CORYDON IN 47112

RECEIVING WATER NAME: INDIAN CR

REACH NUMBER: 05140104019

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: IN0020893

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.114	0.11	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1397.39	582.78	388.54	316.12	NA
CONCENTRATION (µg/L)	8.16E-02	0.20	0.29	0.36	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 _{pot}	2.46E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.89E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	7.41E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 19	RELEASE ACTIVITY: Daramic 20 dy	
FACILITY NAME: CORYDON MUNICIPAL STP		
FACILITY LOCATION: CORYDON IN 47112		
RECEIVING STREAM NAME: INDIAN CR		
REACH NUMBER: 05140104019	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT NUMBER: IN0020893	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): 3058.60	7q10 FLOW (MLD): 388.54	EFFLUENT FLOW (MLD):2.42

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 (%)
3.00	0	0	20.00	0.11	0.00
788.00	0	0	20.00	0.11	0.00
920.00	0	0	20.00	0.11	0.00
1.44E+04	0	0	20.00	0.11	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:3

Number of Release Sites: 1.

Release Activity: Daramic 300 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.40	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:	8.00E-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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:3 RELEASE ACTIVITY: Daramic 300 dy
 FACILITY NAME: CORYDON MUNICIPAL STP
 FACILITY LOCATION: CORYDON IN 47112
 RECEIVING WATER NAME: INDIAN CR
 REACH NUMBER: 05140104019 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: IN0020893 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	300.	0.008	8.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1397.39	582.78	388.54	316.12	NA
CONCENTRATION (µg/L)	5.72E-03	1.37E-02	2.06E-02	2.53E-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 _{pot}	2.59E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.99E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	5.20E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 3 RELEASE ACTIVITY: Daramic 300 dy

FACILITY NAME: CORYDON MUNICIPAL STP

FACILITY LOCATION: CORYDON IN 47112

RECEIVING STREAM NAME: INDIAN CR

REACH NUMBER: 05140104019 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: IN0020893 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): 3058.60 7q10 FLOW (MLD): 388.54 EFFLUENT FLOW (MLD):2.42

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 (%)
3.00	0	0	300.00	8.00E-03	0.00
788.00	0	0	300.00	8.00E-03	0.00
920.00	0	0	300.00	8.00E-03	0.00
1.44E+04	0	0	300.00	8.00E-03	0.00

COMMERCIAL PRINTING

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 1

Number of Release Sites: 1.

Release Activity: Printing 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	5.00E-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:	2.00E-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: TCE

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

SCENARIO #: 1 Number of Sites: 1 RELEASE ACTIVITY: Printing
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.	0.0002	2.00E-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	5204.76	2263.90	1583.16	1275.49	3.84E-05	8.83E-05	1.26E-04	1.57E-04
ALL	10	302.17	109.05	68.58	56.47	6.62E-04	1.83E-03	2.92E-03	3.54E-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 _{pot}	1.45E-10	2.49E-09	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	1.11E-08	1.92E-07	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	3.35E-09	6.95E-08	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1 RELEASE ACTIVITY: Printing 250 dy

SIC CODE DESCRIPTION: Printing

ASSOCIATED SIC CODES: 271-277

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
3.00	0	0	250.00	2.00E-04	0.00	High
788.00	0	0	250.00	2.00E-04	0.00	High
920.00	0	0	250.00	2.00E-04	0.00	High
1.44E+04	0	0	250.00	2.00E-04	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:2

Number of Release Sites: 1.

Release Activity: Printing 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	5.00E-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:	2.50E-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: TCE

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

SCENARIO #: 2 Number of Sites: 1 RELEASE ACTIVITY: Printing 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.	0.0025	2.50E-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	5204.76	2263.90	1583.16	1275.49	4.80E-04	1.10E-03	1.58E-03	1.96E-03
ALL	10	302.17	109.05	68.58	56.47	8.27E-03	2.29E-02	3.65E-02	4.43E-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 _{pot}	1.45E-10	2.49E-09	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	1.11E-08	1.92E-07	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	4.18E-08	8.68E-07	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 2 RELEASE ACTIVITY: Printing 20 dy

SIC CODE DESCRIPTION: Printing

ASSOCIATED SIC CODES: 271-277

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
3.00	0	0	20.00	2.50E-03	0.00	High
788.00	0	0	20.00	2.50E-03	0.00	High
920.00	0	0	20.00	2.50E-03	0.00	High
1.44E+04	0	0	20.00	2.50E-03	0.00	High

OTHER INDUSTRIAL USES

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 19

Number of Release Sites: 1.

Release Activity: Eli 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	387.50 (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:	1.55 (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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 19 RELEASE ACTIVITY: Eli 250 dy

FACILITY NAME: ELI LILLY KENTUCKY AVE. PLANT

FACILITY LOCATION: INDIANAPOLIS IN 46237

RECEIVING WATER NAME: WHITE R

REACH NUMBER: 05120201005 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: IN0003310 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	1.55	1.55	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	948.40	264.68	171.63	140.44	NA
CONCENTRATION (µg/L)	1.63	5.86	9.03	11.04	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 _{pot}	6.16E-06 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	4.74E-04 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.22E-04 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 19 RELEASE ACTIVITY: Eli 250 dy
 FACILITY NAME: ELI LILLY KENTUCKY AVE. PLANT
 FACILITY LOCATION: INDIANAPOLIS IN 46237
 RECEIVING STREAM NAME: WHITE R
 REACH NUMBER: 05120201005 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT NUMBER: IN0003310 GAGING STATION ID: 03353000
 GAGING STATION PERIOD OF RECORD: 01/01/66 - 01/02/91 GAGING STATION NUMBER OF OBSERVATIONS: 9134.00 NUMBER OF STATIONS ON REACH: 1
 50 %ile FLOW (MLD): 1790.46 10 %ile FLOW (MLD): 403.59 EFFLUENT FLOW (MLD):11.78

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 (%)
3.00	10	35	250.00	1.55	0.00
788.00	0	0	250.00	1.55	0.00
920.00	0	0	250.00	1.55	0.00
1.44E+04	0	0	250.00	1.55	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:20

Number of Release Sites: 1.

Release Activity: Eli 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	388.20 (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:	19.41 (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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:20

RELEASE ACTIVITY: Eli 20 dy

FACILITY NAME: ELI LILLY KENTUCKY AVE. PLANT

FACILITY LOCATION: INDIANAPOLIS IN 46237

RECEIVING WATER NAME: WHITE R

REACH NUMBER: 05120201005

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: IN0003310

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	19.41	19.41	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	948.40	264.68	171.63	140.44	NA
CONCENTRATION (µg/L)	20.47	73.33	113.09	138.21	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 _{pot}	6.17E-06 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	4.74E-04 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.78E-03 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 20 RELEASE ACTIVITY: Eli 20 dy

FACILITY NAME: ELI LILLY KENTUCKY AVE. PLANT

FACILITY LOCATION: INDIANAPOLIS IN 46237

RECEIVING STREAM NAME: WHITE R

REACH NUMBER: 05120201005 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: IN0003310 GAGING STATION ID: 03353000

GAGING STATION PERIOD OF RECORD: 01/01/66 - 01/02/91 GAGING STATION NUMBER OF OBSERVATIONS: 9134.00 NUMBER OF STATIONS ON REACH: 1

50 %ile FLOW (MLD): 1790.46 10 %ile FLOW (MLD): 403.59 EFFLUENT FLOW (MLD):11.78

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 (%)
3.00	5	17	20.00	19.41	0.00
788.00	0	0	20.00	19.41	0.00
920.00	0	0	20.00	19.41	0.00
1.44E+04	0	0	20.00	19.41	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:21

Number of Release Sites: 1.

Release Activity: Oxy 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	37.50 (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:	0.15 (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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:21

RELEASE ACTIVITY: Oxy 250 dy

FACILITY NAME: OXY VINYLs LP

FACILITY LOCATION: DEER PARK TX 77536

RECEIVING WATER NAME: BUFFALO BAYOU

REACH NUMBER: 12040104015

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT #: TX0007412

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.15	0.15	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1170.86	467.49	309.27	309.27	NA
CONCENTRATION (µg/L)	0.13	0.32	0.49	0.49	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 _{pot}	4.83E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	3.71E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.22E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 21

RELEASE ACTIVITY: Oxy 250 dy

FACILITY NAME: OXY VINYLs LP

FACILITY LOCATION: DEER PARK TX 77536

RECEIVING STREAM NAME: BUFFALO BAYOU

REACH NUMBER: 12040104015

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: TX0007412

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): 2746.48

7q10 FLOW (MLD): 309.27

EFFLUENT FLOW (MLD):309.27

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 (%)
3.00	0	1	250.00	0.15	0.00
788.00	0	0	250.00	0.15	0.00
920.00	0	0	250.00	0.15	0.00
1.44E+04	0	0	250.00	0.15	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:22

Number of Release Sites: 1.

Release Activity: Oxy 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	37.00 (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:	1.85 (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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:22

RELEASE ACTIVITY: Oxy 20 dy

FACILITY NAME: OXY VINYLs LP

FACILITY LOCATION: DEER PARK TX 77536

RECEIVING WATER NAME: BUFFALO BAYOU

REACH NUMBER: 12040104015

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT #: TX0007412

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	1.85	1.85	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1170.86	467.49	309.27	309.27	NA
CONCENTRATION (µg/L)	1.58	3.96	5.98	5.98	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 _{pot}	4.76E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	3.66E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.50E-04 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 22

RELEASE ACTIVITY: Oxy 20 dy

FACILITY NAME: OXY VINYLs LP

FACILITY LOCATION: DEER PARK TX 77536

RECEIVING STREAM NAME: BUFFALO BAYOU

REACH NUMBER: 12040104015

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: TX0007412

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): 2746.48

7q10 FLOW (MLD): 309.27

EFFLUENT FLOW (MLD):309.27

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 (%)
3.00	3	9	20.00	1.85	0.00
788.00	0	0	20.00	1.85	0.00
920.00	0	0	20.00	1.85	0.00
1.44E+04	0	0	20.00	1.85	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:23

Number of Release Sites: 1.

Release Activity: WA Penn 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.00 (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:	3.20E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 23 RELEASE ACTIVITY: WA Penn 250 dy
 FACILITY NAME: MIDWAY STP
 FACILITY LOCATION: MIDWAY KY 28410
 RECEIVING WATER NAME: S ELKHORN CR
 REACH NUMBER: 05100205064 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: KY0028410 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.032	3.20E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	25.61	7.43	4.25	3.57	NA
CONCENTRATION (µg/L)	1.25	4.31	7.53	8.97	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 _{pot}	4.71E-06 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	3.62E-04 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.63E-04 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 23

RELEASE ACTIVITY: WA Penn 250 dy

FACILITY NAME: MIDWAY STP

FACILITY LOCATION: MIDWAY KY 28410

RECEIVING STREAM NAME: S ELKHORN CR

REACH NUMBER: 05100205064

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: KY0028410

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): 126.48

7q10 FLOW (MLD): 4.25

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 (%)
3.00	6	22	250.00	3.20E-02	0.00
788.00	0	0	250.00	3.20E-02	0.00
920.00	0	0	250.00	3.20E-02	0.00
1.44E+04	0	0	250.00	3.20E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:24

Number of Release Sites: 1.

Release Activity: WA Penn 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.00 (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:	0.40 (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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 24 RELEASE ACTIVITY: WA Penn 20 dy
 FACILITY NAME: MIDWAY STP
 FACILITY LOCATION: MIDWAY KY 28410
 RECEIVING WATER NAME: S ELKHORN CR
 REACH NUMBER: 05100205064 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: KY0028410 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.4	0.40	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	25.61	7.43	4.25	3.57	NA
CONCENTRATION (µg/L)	15.62	53.82	94.12	112.08	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 _{pot}	4.71E-06 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	3.62E-04 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.04E-03 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 16

Number of Release Sites: 1.

Release Activity: Solvay 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.40 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	2.40E-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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 16 RELEASE ACTIVITY: Solvay 350 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.	350.	0.024	2.40E-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)	0.22	2.56	4.44	5.30	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 _{pot}	1.15E-06 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	8.84E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	9.70E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 16

RELEASE ACTIVITY: Solvay 350 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 (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
3.00	1	3	350.00	2.40E-02	0.00
788.00	0	0	350.00	2.40E-02	0.00
920.00	0	0	350.00	2.40E-02	0.00
1.44E+04	0	0	350.00	2.40E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 17

Number of Release Sites: 1.

Release Activity: Solvay 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	8.20	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:	0.41	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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 17 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.	0.41	0.41	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)	3.72	43.77	75.93	90.57	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 _{pot}	1.12E-06 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	8.63E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.66E-03 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 17

RELEASE ACTIVITY: Solvay 20 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 (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
3.00	1	5	20.00	0.41	0.00
788.00	0	0	20.00	0.41	0.00
920.00	0	0	20.00	0.41	0.00
1.44E+04	0	0	20.00	0.41	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:25

Number of Release Sites: 1.

Release Activity: Natrium 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	5.50 (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:	2.20E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 25 RELEASE ACTIVITY: Natrium 250 dy

FACILITY NAME: PPG INDUSTRIES INC.

FACILITY LOCATION: NEW MARTINSVILLE WV 26155

RECEIVING WATER NAME: OHIO R

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

NPDES PERMIT #: WV0004359 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.022	2.20E-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)	5.66E-04	1.94E-03	2.62E-03	3.29E-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 _{pot}	2.13E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.64E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	7.34E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:26

Number of Release Sites: 1.

Release Activity: Natrium 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	5.40 (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:	0.27 (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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 26

RELEASE ACTIVITY: Natrium 20 dy

FACILITY NAME: PPG INDUSTRIES INC.

FACILITY LOCATION: NEW MARTINSVILLE WV 26155

RECEIVING WATER NAME: OHIO R

REACH NUMBER: 05030201051

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: WV0004359

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.27	0.27	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)	6.95E-03	2.38E-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 _{pot}	2.10E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.61E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	9.01E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:27

Number of Release Sites: 1.

Release Activity: Leroy 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	4.75 (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:	1.90E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 27 RELEASE ACTIVITY: Leroy 250 dy
 FACILITY NAME: LEROY (V) SEWAGE TRT PLT
 FACILITY LOCATION: LE ROY NY 14482
 RECEIVING WATER NAME: OATKA CR
 REACH NUMBER: 04130003005 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: NY0030546 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.019	1.90E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	117.02	44.26	26.95	22.34	NA
CONCENTRATION (µg/L)	0.16	0.43	0.71	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 _{pot}	6.12E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	4.71E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.63E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:28

Number of Release Sites: 1.

Release Activity: Leroy 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	4.80 (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:	0.24 (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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 28

RELEASE ACTIVITY: Leroy 20 dy

FACILITY NAME: LEROY (V) SEWAGE TRT PLT

FACILITY LOCATION: LE ROY NY 14482

RECEIVING WATER NAME: OATKA CR

REACH NUMBER: 04130003005

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: NY0030546

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.24	0.24	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	117.02	44.26	26.95	22.34	NA
CONCENTRATION (µg/L)	2.05	5.42	8.91	10.74	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 _{pot}	6.18E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	4.75E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.05E-04 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 28 RELEASE ACTIVITY: Leroy 20 dy

FACILITY NAME: LEROY (V) SEWAGE TRT PLT

FACILITY LOCATION: LE ROY NY 14482

RECEIVING STREAM NAME: OATKA CR

REACH NUMBER: 04130003005 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NY0030546 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): 363.79 7q10 FLOW (MLD): 26.95 EFFLUENT FLOW (MLD):1.89

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 (%)
3.00	1	3	20.00	0.24	0.00
788.00	0	0	20.00	0.24	0.00
920.00	0	0	20.00	0.24	0.00
1.44E+04	0	0	20.00	0.24	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:29

Number of Release Sites: 1.

Release Activity: Marshall 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.50 (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:	1.00E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 29 RELEASE ACTIVITY: Marshall 250 dy
 FACILITY NAME: TELEDYNE WAH CHANG HUNTSVILLE
 FACILITY LOCATION: HUNTSVILLE AL 35806
 RECEIVING WATER NAME: INDIAN CR
 REACH NUMBER: 06030002080 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: AL0025585 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.01	1.00E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	135.55	79.60	49.48	40.84	NA
CONCENTRATION (µg/L)	7.38E-02	0.13	0.20	0.24	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 _{pot}	2.78E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.14E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	4.76E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 29 RELEASE ACTIVITY: Marshall 250 dy

FACILITY NAME: TELEDYNE WAH CHANG HUNTSVILLE

FACILITY LOCATION: HUNTSVILLE AL 35806

RECEIVING STREAM NAME: INDIAN CR

REACH NUMBER: 06030002080 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: AL0025585 GAGING STATION ID: 03575830

GAGING STATION PERIOD OF RECORD: 10/01/75 - 09/29/89 GAGING STATION NUMBER OF OBSERVATIONS: 4748.00 NUMBER OF STATIONS ON REACH: 1

50 %ile FLOW (MLD): 63.60 10 %ile FLOW (MLD): 13.70 EFFLUENT FLOW (MLD): 5.00E-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 (%)
3.00	0	0	250.00	1.00E-02	0.00
788.00	0	0	250.00	1.00E-02	0.00
920.00	0	0	250.00	1.00E-02	0.00
1.44E+04	0	0	250.00	1.00E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:30

Number of Release Sites: 1.

Release Activity: Marshall 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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:30

RELEASE ACTIVITY: Marshall 20 dy

FACILITY NAME: TELEDYNE WAH CHANG HUNTSVILLE

FACILITY LOCATION: HUNTSVILLE AL 35806

RECEIVING WATER NAME: INDIAN CR

REACH NUMBER: 06030002080

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: AL0025585

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	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	135.55	79.60	49.48	40.84	NA
CONCENTRATION (µg/L)	0.96	1.63	2.63	3.18	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 _{pot}	2.89E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.22E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	6.19E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 30 RELEASE ACTIVITY: Marshall 20 dy
 FACILITY NAME: TELEDYNE WAH CHANG HUNTSVILLE
 FACILITY LOCATION: HUNTSVILLE AL 35806
 RECEIVING STREAM NAME: INDIAN CR
 REACH NUMBER: 06030002080 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT NUMBER: AL0025585 GAGING STATION ID: 03575830
 GAGING STATION PERIOD OF RECORD: 10/01/75 - 09/29/89 GAGING STATION NUMBER OF OBSERVATIONS: 4748.00 NUMBER OF STATIONS ON REACH: 1
 50 %ile FLOW (MLD): 63.60 10 %ile FLOW (MLD): 13.70 EFFLUENT FLOW (MLD):5.00E-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 (%)
3.00	2	8	20.00	0.13	0.00
788.00	0	0	20.00	0.13	0.00
920.00	0	0	20.00	0.13	0.00
1.44E+04	0	0	20.00	0.13	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:31

Number of Release Sites: 1.

Release Activity: Whelan 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.25 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	9.00E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:31 RELEASE ACTIVITY: Whelan 250 dy
 FACILITY NAME: WHELAN ENERGY CENTER PWR PLANT
 FACILITY LOCATION: HASTINGS NE 68901
 RECEIVING WATER NAME: PAWNEE CR
 REACH NUMBER: 10270206016 FACILITY ON REACH: Unk DISCHARGE TYPE: Direct
 NPDES PERMIT #: NE0113506 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.009	9.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	13.41	5.45	3.08	2.59	NA
CONCENTRATION (µg/L)	0.67	1.65	2.92	3.47	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 _{pot}	2.53E-06 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.95E-04 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	6.26E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 31

RELEASE ACTIVITY: Whelan 250 dy

FACILITY NAME: WHELAN ENERGY CENTER PWR PLANT

FACILITY LOCATION: HASTINGS NE 68901

RECEIVING STREAM NAME: PAWNEE CR

REACH NUMBER: 10270206016

FACILITY ON REACH: Unk

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NE0113506

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): 46.88

7q10 FLOW (MLD): 3.08

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 (%)
3.00	8	30	250.00	9.00E-03	0.00
788.00	0	0	250.00	9.00E-03	0.00
920.00	0	0	250.00	9.00E-03	0.00
1.44E+04	0	0	250.00	9.00E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:32

Number of Release Sites: 1.

Release Activity: Whelan 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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:32 RELEASE ACTIVITY: Whelan 20 dy
 FACILITY NAME: WHELAN ENERGY CENTER PWR PLANT
 FACILITY LOCATION: HASTINGS NE 68901
 RECEIVING WATER NAME: PAWNEE CR
 REACH NUMBER: 10270206016 FACILITY ON REACH: Unk DISCHARGE TYPE: Direct
 NPDES PERMIT #: NE0113506 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)	13.41	5.45	3.08	2.59	NA
CONCENTRATION (µg/L)	8.95	22.04	38.96	46.29	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 _{pot}	2.70E-06 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.07E-04 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	8.35E-04 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:20

Number of Release Sites: 1.

Release Activity: Akzo 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.12 (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:	3.30E-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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:20 RELEASE ACTIVITY: Akzo 350 dy

FACILITY NAME: AKZO NOBEL SURFACE CHEMISTRY

FACILITY LOCATION: MORRIS IL 60450

RECEIVING WATER NAME: AUX SABLE CR

REACH NUMBER: 07120005014 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: IL0026069 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	3.30E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1098.93	713.96	479.41	389.48	NA
CONCENTRATION (µg/L)	3.00E-04	4.62E-04	6.88E-04	8.47E-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 _{pot}	1.58E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.22E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.75E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 20

RELEASE ACTIVITY: Akzo 350 dy

FACILITY NAME: AKZO NOBEL SURFACE CHEMISTRY

FACILITY LOCATION: MORRIS IL 60450

RECEIVING STREAM NAME: AUX SABLE CR

REACH NUMBER: 07120005014

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: IL0026069

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): 1440.13

7q10 FLOW (MLD): 479.41

EFFLUENT FLOW (MLD): 1.29

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 (%)
3.00	0	0	350.00	3.30E-04	0.00
788.00	0	0	350.00	3.30E-04	0.00
920.00	0	0	350.00	3.30E-04	0.00
1.44E+04	0	0	350.00	3.30E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:21

Number of Release Sites: 1.

Release Activity: Akzo 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	0.12	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:	6.00E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:21

RELEASE ACTIVITY: Akzo 20 dy

FACILITY NAME: AKZO NOBEL SURFACE CHEMISTRY

FACILITY LOCATION: MORRIS IL 60450

RECEIVING WATER NAME: AUX SABLE CR

REACH NUMBER: 07120005014

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: IL0026069

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.006	6.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1098.93	713.96	479.41	389.48	NA
CONCENTRATION (µg/L)	5.46E-03	8.40E-03	1.25E-02	1.54E-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 _{pot}	1.65E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.27E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	3.18E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 21

RELEASE ACTIVITY: Akzo 20 dy

FACILITY NAME: AKZO NOBEL SURFACE CHEMISTRY

FACILITY LOCATION: MORRIS IL 60450

RECEIVING STREAM NAME: AUX SABLE CR

REACH NUMBER: 07120005014

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: IL0026069

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): 1440.13

7q10 FLOW (MLD): 479.41

EFFLUENT FLOW (MLD): 1.29

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 (%)
3.00	0	0	20.00	6.00E-03	0.00
788.00	0	0	20.00	6.00E-03	0.00
920.00	0	0	20.00	6.00E-03	0.00
1.44E+04	0	0	20.00	6.00E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:21

Number of Release Sites: 1.

Release Activity: Solutia 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:	3.20E-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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 21 RELEASE ACTIVITY: Solutia 350 dy
 FACILITY NAME: NITRO CITY OF
 FACILITY LOCATION: NITRO WV 25143
 RECEIVING WATER NAME: KANAWHA R
 REACH NUMBER: 05050008007 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: WV0023299 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	350.	0.00032	3.20E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1.50E+04	4737.79	3400.47	2724.98	NA
CONCENTRATION (µg/L)	2.14E-05	6.75E-05	9.41E-05	1.17E-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 _{pot}	1.13E-10 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	8.68E-09 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.56E-09 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 21

RELEASE ACTIVITY: Solutia 350 dy

FACILITY NAME: NITRO CITY OF

FACILITY LOCATION: NITRO WV 25143

RECEIVING STREAM NAME: KANAWHA R

REACH NUMBER: 05050008007

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: WV0023299

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): 3400.47

EFFLUENT FLOW (MLD):3.15

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 (%)
3.00	0	0	350.00	3.20E-04	0.00
788.00	0	0	350.00	3.20E-04	0.00
920.00	0	0	350.00	3.20E-04	0.00
1.44E+04	0	0	350.00	3.20E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:23

Number of Release Sites: 1.

Release Activity: Solutia 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	0.12	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:	6.00E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 23 RELEASE ACTIVITY: Solutia 20 dy
 FACILITY NAME: NITRO CITY OF
 FACILITY LOCATION: NITRO WV 25143
 RECEIVING WATER NAME: KANAWHA R
 REACH NUMBER: 05050008007 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: WV0023299 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.006	6.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1.50E+04	4737.79	3400.47	2724.98	NA
CONCENTRATION (µg/L)	4.01E-04	1.27E-03	1.76E-03	2.20E-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 _{pot}	1.21E-10 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	9.30E-09 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	4.80E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:22

Number of Release Sites: 1.

Release Activity: Amphenol 350 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	7.00E-02 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)

Non-sludge/Sludge

Release Days/yr:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	2.00E-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: TCE-0%

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

SCENARIO #: 22 Number of Sites: 1 RELEASE ACTIVITY: Amphenol
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)
0.00	350.	0.0002	2.00E-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	7.08E-05	2.14E-04	3.15E-04	3.89E-04
ALL	10	50.57	9.38	5.41	4.53	3.95E-03	2.13E-02	3.70E-02	4.42E-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 _{pot}	3.73E-10	2.09E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	2.87E-08	1.60E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	8.10E-09	8.08E-07	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 22

RELEASE ACTIVITY: Amphenol 350 dy

SIC CODE DESCRIPTION: Organic Chemicals Manufacture

ASSOCIATED SIC CODES: 2865,2869

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
3.00	0	0	350.00	2.00E-04	0.00	High
788.00	0	0	350.00	2.00E-04	0.00	High
920.00	0	0	350.00	2.00E-04	0.00	High
1.44E+04	0	0	350.00	2.00E-04	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:29

Number of Release Sites: 1.

Release Activity: Amphenol 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	8.00E-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:	4.00E-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: TCE-2

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

SCENARIO #: 29

Number of Sites: 1

RELEASE ACTIVITY: Amphenol
20 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)
0.00	20.	0.004	4.00E-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	2825.61	935.49	634.16	514.20	1.42E-03	4.28E-03	6.31E-03	7.78E-03
ALL	10	50.57	9.38	5.41	4.53	7.91E-02	0.43	0.74	0.88

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 _{pot}	4.27E-10	2.38E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	3.28E-08	1.83E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	1.62E-07	1.62E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 29 RELEASE ACTIVITY: Amphenol 20 dy

SIC CODE DESCRIPTION: Organic Chemicals Manufacture

ASSOCIATED SIC CODES: 2865,2869

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
3.00	0	1	20.00	4.00E-03	0.00	High
788.00	0	0	20.00	4.00E-03	0.00	High
920.00	0	0	20.00	4.00E-03	0.00	High
1.44E+04	0	0	20.00	4.00E-03	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 1

Number of Release Sites: 1.

Release Activity: Army Cold 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	5.00E-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:	2.00E-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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:1 RELEASE ACTIVITY: Army Cold 250 dy
 FACILITY NAME: HANOVER W W T P
 FACILITY LOCATION: HANOVER NH 03755
 RECEIVING WATER NAME: CONNECTICUT R
 REACH NUMBER: 01080104036 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: NH0100099 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.0002	2.00E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	7529.34	2763.39	1946.10	1565.62	NA
CONCENTRATION (µg/L)	2.66E-05	7.24E-05	1.03E-04	1.28E-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 _{pot}	1.00E-10 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	7.70E-09 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.74E-09 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 1 RELEASE ACTIVITY: Army Cold 250 dy

FACILITY NAME: HANOVER W W T P

FACILITY LOCATION: HANOVER NH 03755

RECEIVING STREAM NAME: CONNECTICUT R

REACH NUMBER: 01080104036 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NH0100099 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): 1.64E+04 7q10 FLOW (MLD): 1946.10 EFFLUENT FLOW (MLD):5.52

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 (%)
3.00	0	0	250.00	2.00E-04	0.00
788.00	0	0	250.00	2.00E-04	0.00
920.00	0	0	250.00	2.00E-04	0.00
1.44E+04	0	0	250.00	2.00E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:2

Number of Release Sites: 1.

Release Activity: Army Cold 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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:2 RELEASE ACTIVITY: Army Cold 20 dy

FACILITY NAME: HANOVER W W T P

FACILITY LOCATION: HANOVER NH 03755

RECEIVING WATER NAME: CONNECTICUT R

REACH NUMBER: 01080104036 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: NH0100099 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)	7529.34	2763.39	1946.10	1565.62	NA
CONCENTRATION (µg/L)	3.98E-04	1.09E-03	1.54E-03	1.92E-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 _{pot}	1.20E-10 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	9.24E-09 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	4.11E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 2

RELEASE ACTIVITY: Army Cold 20 dy

FACILITY NAME: HANOVER W W T P

FACILITY LOCATION: HANOVER NH 03755

RECEIVING STREAM NAME: CONNECTICUT R

REACH NUMBER: 01080104036

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NH0100099

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): 1.64E+04

7q10 FLOW (MLD): 1946.10

EFFLUENT FLOW (MLD):5.52

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 (%)
3.00	0	0	20.00	3.00E-03	0.00
788.00	0	0	20.00	3.00E-03	0.00
920.00	0	0	20.00	3.00E-03	0.00
1.44E+04	0	0	20.00	3.00E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:35

Number of Release Sites: 1.

Release Activity: Corning 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	5.00E-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:	2.00E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:35 RELEASE ACTIVITY: Coming 250 dy
 FACILITY NAME: DEKALB JUNCTION STP
 FACILITY LOCATION: DEKALB JUNCTION NY 13630
 RECEIVING WATER NAME: OSWEGATCHIE R
 REACH NUMBER: 04150302004 FACILITY ON REACH: No DISCHARGE TYPE: Direct
 NPDES PERMIT #: NY0034762 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.0002	2.00E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1972.81	869.99	588.26	477.23	NA
CONCENTRATION (µg/L)	1.01E-04	2.30E-04	3.40E-04	4.19E-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 _{pot}	3.82E-10 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	2.94E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	8.71E-09 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 35 RELEASE ACTIVITY: Corning 250 dy

FACILITY NAME: DEKALB JUNCTION STP

FACILITY LOCATION: DEKALB JUNCTION NY 13630

RECEIVING STREAM NAME: OSWEGATCHIE R

REACH NUMBER: 04150302004 FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NY0034762 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): 3907.84 7q10 FLOW (MLD): 588.26 EFFLUENT FLOW (MLD):3.00E-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 (%)
3.00	0	0	250.00	2.00E-04	0.00
788.00	0	0	250.00	2.00E-04	0.00
920.00	0	0	250.00	2.00E-04	0.00
1.44E+04	0	0	250.00	2.00E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:36

Number of Release Sites: 1.

Release Activity: Corning 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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:36

RELEASE ACTIVITY: Coming 20 dy

FACILITY NAME: DEKALB JUNCTION STP

FACILITY LOCATION: DEKALB JUNCTION NY 13630

RECEIVING WATER NAME: OSWEGATCHIE R

REACH NUMBER: 04150302004

FACILITY ON REACH: No DISCHARGE TYPE: Direct

NPDES PERMIT #: NY0034762

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)	1972.81	869.99	588.26	477.23	NA
CONCENTRATION (µg/L)	1.52E-03	3.45E-03	5.10E-03	6.29E-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 _{pot}	4.58E-10 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	3.53E-08 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.31E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:23

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:	3.33E-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:	350.00	0.00/0.00	N/A	N/A
Per Site Release:	9.50E-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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 23	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	0.0002	9.50E-05	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	9.50
CHRONIC SCENARIO	1.00	9.50

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-2

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:41

Number of Release Sites: 1.

Release Activity: Keeshan 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	4.00E-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:	2.00E-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: TCE-2

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 41	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	0.002	2.00E-03	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	200.00
CHRONIC SCENARIO	1.00	200.00

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:7

Number of Release Sites: 1.

Release Activity: Ames 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.75E-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:	1.10E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 7 RELEASE ACTIVITY: Ames 250 dy
 FACILITY NAME: AMES RUBBER CORP
 FACILITY LOCATION: HAMBURG NJ 07419
 RECEIVING WATER NAME: WALLKILL R
 REACH NUMBER: 02020007028 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: NJ0000141 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.00011	1.10E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	42.70	12.63	7.36	6.16	NA
CONCENTRATION (µg/L)	2.58E-03	8.71E-03	1.49E-02	1.79E-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 _{pot}	9.71E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	7.47E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	3.30E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 7 RELEASE ACTIVITY: Ames 250 dy

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

FACILITY NAME: AMES RUBBER CORP

FACILITY LOCATION: HAMBURG NJ 07419

RECEIVING STREAM NAME: WALLKILL R

REACH NUMBER: 02020007028

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NJ0000141

GAGING STATION ID: 01368720

GAGING STATION PERIOD OF RECORD: 01/01/68 - 09/29/80

GAGING STATION NUMBER OF OBSERVATIONS: 3813.00

NUMBER OF STATIONS ON REACH: 1

50 %ile FLOW (MLD): 2.69

10 %ile FLOW (MLD): 0.00

EFFLUENT FLOW (MLD):0.31

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 (%)
3.00	14	53	250.00	1.10E-04	0.00
788.00	14	50	250.00	1.10E-04	0.00
920.00	14	50	250.00	1.10E-04	0.00
1.44E+04	14	50	250.00	1.10E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:8

Number of Release Sites: 1.

Release Activity: Ames 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.60E-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:	1.30E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 8 RELEASE ACTIVITY: Ames 20 dy
 FACILITY NAME: AMES RUBBER CORP
 FACILITY LOCATION: HAMBURG NJ 07419
 RECEIVING WATER NAME: WALLKILL R
 REACH NUMBER: 02020007028 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: NJ0000141 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.0013	1.30E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	42.70	12.63	7.36	6.16	NA
CONCENTRATION (µg/L)	3.04E-02	0.10	0.18	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 _{pot}	9.18E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	7.06E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	3.90E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 8 RELEASE ACTIVITY: Ames 20 dy

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

FACILITY NAME: AMES RUBBER CORP

FACILITY LOCATION: HAMBURG NJ 07419

RECEIVING STREAM NAME: WALLKILL R

REACH NUMBER: 02020007028

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: NJ0000141

GAGING STATION ID: 01368720

GAGING STATION PERIOD OF RECORD: 01/01/68 - 09/29/80

GAGING STATION NUMBER OF OBSERVATIONS: 3813.00

NUMBER OF STATIONS ON REACH: 1

50 %ile FLOW (MLD): 2.69

10 %ile FLOW (MLD): 0.00

EFFLUENT FLOW (MLD):0.31

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 (%)
3.00	2	6	20.00	1.30E-03	0.00
788.00	1	4	20.00	1.30E-03	0.00
920.00	1	4	20.00	1.30E-03	0.00
1.44E+04	1	4	20.00	1.30E-03	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:39

Number of Release Sites: 1.

Release Activity: Gorham 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	2.50E-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:	1.00E-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: TCE-0

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

SCENARIO #: 39

Number of Sites: 1

RELEASE ACTIVITY: Gorham
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.	0.0001	1.00E-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	3.47E-04	8.07E-04	1.28E-03	1.51E-03
ALL	10	39.60	13.29	7.76	7.57	2.53E-03	7.52E-03	1.29E-02	1.32E-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 _{pot}	1.31E-09	9.51E-09	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	1.01E-07	7.32E-07	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	3.06E-08	2.85E-07	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 39 RELEASE ACTIVITY: Gorham 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
3.00	0	0	250.00	1.00E-04	0.00	High
788.00	0	0	250.00	1.00E-04	0.00	High
920.00	0	0	250.00	1.00E-04	0.00	High
1.44E+04	0	0	250.00	1.00E-04	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:40

Number of Release Sites: 1.

Release Activity: Gorham 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	2.00E-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:	1.00E-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: TCE-0

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

SCENARIO #: 40 Number of Sites: 1 RELEASE ACTIVITY: Gorham 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.	0.001	1.00E-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	3.47E-03	8.07E-03	1.28E-02	1.51E-02
ALL	10	39.60	13.29	7.76	7.57	2.53E-02	7.52E-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 _{pot}	1.05E-09	7.61E-09	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	8.05E-08	5.85E-07	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	3.06E-07	2.85E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 40 RELEASE ACTIVITY: Gorham 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
3.00	0	0	20.00	1.00E-03	0.00	High
788.00	0	0	20.00	1.00E-03	0.00	High
920.00	0	0	20.00	1.00E-03	0.00	High
1.44E+04	0	0	20.00	1.00E-03	0.00	High

OTHER COMMERCIAL USES

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:41

Number of Release Sites: 1.

Release Activity: Corning NY 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.25 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	1.30E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:41 RELEASE ACTIVITY: Corning NY 250 dy
 FACILITY NAME: CORNING (C) STP
 FACILITY LOCATION: CORNING NY 14850
 RECEIVING WATER NAME: CHEMUNG R
 REACH NUMBER: 02050105014 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: NY0025721 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.013	1.30E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	2176.36	715.15	480.24	390.15	NA
CONCENTRATION (µg/L)	5.97E-03	1.82E-02	2.71E-02	3.33E-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 _{pot}	2.25E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.73E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	6.88E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:42

Number of Release Sites: 1.

Release Activity: Corning NY 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.20 (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:	0.16 (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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:42 RELEASE ACTIVITY: Corning NY 20 dy
 FACILITY NAME: CORNING (C) STP
 FACILITY LOCATION: CORNING NY 14850
 RECEIVING WATER NAME: CHEMUNG R
 REACH NUMBER: 02050105014 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: NY0025721 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.16	0.16	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	2176.36	715.15	480.24	390.15	NA
CONCENTRATION (µg/L)	7.35E-02	0.22	0.33	0.41	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 _{pot}	2.22E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.70E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	8.47E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 42	RELEASE ACTIVITY: Corning NY 20 dy	
FACILITY NAME: CORNING (C) STP		
FACILITY LOCATION: CORNING NY 14850		
RECEIVING STREAM NAME: CHEMUNG R		
REACH NUMBER: 02050105014	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT NUMBER: NY0025721	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): 6094.30	7q10 FLOW (MLD): 480.24	EFFLUENT FLOW (MLD):6.74

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 (%)
3.00	0	0	20.00	0.16	0.00
788.00	0	0	20.00	0.16	0.00
920.00	0	0	20.00	0.16	0.00
1.44E+04	0	0	20.00	0.16	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:5

Number of Release Sites: 1.

Release Activity: Water 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	0.75	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:	3.00E-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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:5 RELEASE ACTIVITY: Water 250 dy

FACILITY NAME: GENERAL MOTORS CORPORATION

FACILITY LOCATION: DAYTON OH 45401

RECEIVING WATER NAME: GREAT MIAMI R

REACH NUMBER: 05080002009 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: OH0009521 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.003	3.00E-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)	1.31E-03	3.80E-03	5.64E-03	6.95E-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 _{pot}	4.95E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	3.81E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.44E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:6

Number of Release Sites: 1.

Release Activity: Water 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.70 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	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: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER: 6 RELEASE ACTIVITY: Water 20 dy

FACILITY NAME: GENERAL MOTORS CORPORATION

FACILITY LOCATION: DAYTON OH 45401

RECEIVING WATER NAME: GREAT MIAMI R

REACH NUMBER: 05080002009 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: OH0009521 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.035	3.50E-02	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)	1.53E-02	4.44E-02	6.58E-02	8.11E-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 _{pot}	4.62E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	3.55E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.68E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0%

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 6

RELEASE ACTIVITY: Water 20 dy

FACILITY NAME: GENERAL MOTORS CORPORATION

FACILITY LOCATION: DAYTON OH 45401

RECEIVING STREAM NAME: GREAT MIAMI R

REACH NUMBER: 05080002009

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: OH0009521

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): 7.28

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 (%)
3.00	0	0	20.00	3.50E-02	0.00
788.00	0	0	20.00	3.50E-02	0.00
920.00	0	0	20.00	3.50E-02	0.00
1.44E+04	0	0	20.00	3.50E-02	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:45

Number of Release Sites: 1.

Release Activity: Union 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.10 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	250.00	0.00/0.00	N/A	N/A
Per Site Release:	4.00E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 45 RELEASE ACTIVITY: Union 250 dy
 FACILITY NAME: GLENDALE CITY OF
 FACILITY LOCATION: GLENDALE CO 802461511
 RECEIVING WATER NAME: CHERRY CR
 REACH NUMBER: 10190003027 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT #: CO0020095 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.0004	4.00E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	20.45	7.92	4.54	4.54	NA
CONCENTRATION (µg/L)	1.96E-02	5.05E-02	8.81E-02	8.81E-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 _{pot}	7.37E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	5.67E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.91E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 45 RELEASE ACTIVITY: Union 250 dy
 FACILITY NAME: GLENDALE CITY OF
 FACILITY LOCATION: GLENDALE CO 802461511
 RECEIVING STREAM NAME: CHERRY CR
 REACH NUMBER: 10190003027 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct
 NPDES PERMIT NUMBER: CO0020095 GAGING STATION ID: 06713000
 GAGING STATION PERIOD OF RECORD: 01/01/66 - 09/29/89 GAGING STATION NUMBER OF OBSERVATIONS: 8674.00 NUMBER OF STATIONS ON REACH: 1
 50 %ile FLOW (MLD): 0.00 10 %ile FLOW (MLD): 0.00 EFFLUENT FLOW (MLD):4.54

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 (%)
3.00	58	213	250.00	4.00E-04	0.00
788.00	58	213	250.00	4.00E-04	0.00
920.00	58	213	250.00	4.00E-04	0.00
1.44E+04	58	213	250.00	4.00E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:46

Number of Release Sites: 1.

Release Activity: Union 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.10 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	5.00E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:46

RELEASE ACTIVITY: Union 20 dy

FACILITY NAME: GLENDALE CITY OF

FACILITY LOCATION: GLENDALE CO 802461511

RECEIVING WATER NAME: CHERRY CR

REACH NUMBER: 10190003027

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: CO0020095

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.005	5.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	20.45	7.92	4.54	4.54	NA
CONCENTRATION (µg/L)	0.24	0.63	1.10	1.10	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 _{pot}	7.37E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	5.67E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.39E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#: 1

Number of Release Sites: 1.

Release Activity: Confluence 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	7.00E-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:	2.80E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:1 RELEASE ACTIVITY: Confluence 250 dy

FACILITY NAME: GLENDALE CITY OF

FACILITY LOCATION: GLENDALE CO 802461511

RECEIVING WATER NAME: CHERRY CR

REACH NUMBER: 10190003027 FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: CO0020095 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	250.	0.00028	2.80E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	20.45	7.92	4.54	4.54	NA
CONCENTRATION (µg/L)	1.37E-02	3.53E-02	6.17E-02	6.17E-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 _{pot}	5.16E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	3.97E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.34E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:2

Number of Release Sites: 1.

Release Activity: Confluence 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	7.00E-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:	3.50E-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: TCE

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

SCENARIO NUMBER: 2

RELEASE ACTIVITY: Confluence 20 dy

FACILITY NAME: GLENDALE CITY OF

FACILITY LOCATION: GLENDALE CO 802461511

RECEIVING WATER NAME: CHERRY CR

REACH NUMBER: 10190003027

FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: CO0020095

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.0035	3.50E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	20.45	7.92	4.54	4.54	NA
CONCENTRATION (µg/L)	0.17	0.44	0.77	0.77	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 _{pot}	5.16E-08 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	3.97E-06 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.67E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:3

Number of Release Sites: 1.

Release Activity: Park 250 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	6.75E-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:	2.70E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 3	RELEASE ACTIVITY: Park 250 dy	
FACILITY NAME: DREAMS LANDING CONDO WWTP		
FACILITY LOCATION: ANNAPOLIS MD 21401		
RECEIVING WATER NAME: SEVERN R		
REACH NUMBER: 02060004002	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: MD0052868	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.	3.00E-02	0.00027	2.70E-04	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	9.00
CHRONIC SCENARIO	1.00	9.00

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:4

Number of Release Sites: 1.

Release Activity: Park 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	6.60E-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:	3.30E-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: TCE

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 4	RELEASE ACTIVITY: Park 20 dy	
FACILITY NAME: DREAMS LANDING CONDO WWTP		
FACILITY LOCATION: ANNAPOLIS MD 21401		
RECEIVING WATER NAME: SEVERN R		
REACH NUMBER: 02060004002	FACILITY ON REACH: Yes	DISCHARGE TYPE: Direct
NPDES PERMIT #: MD0052868	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.	3.00E-02	0.0033	3.30E-03	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	110.00
CHRONIC SCENARIO	1.00	110.00

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

Lakes Comments:

WASTE WATER TREATMENT PLANT

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:51

Number of Release Sites: 1.

Release Activity: Rochelle 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	15.69 (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:	4.30E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 51	RELEASE ACTIVITY: Rochelle 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	0.043	4.30E-02	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	0.70
CHRONIC SCENARIO	1.00	0.70

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:52

Number of Release Sites: 1.

Release Activity: Rochelle 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	15.80 (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:	0.79 (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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS		
SCENARIO #: 52	RELEASE ACTIVITY: Rochelle 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	0.79	0.79	0.00

AQUATIC EXPOSURE ESTIMATES		
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)
ACUTE SCENARIO	1.00	12.79
CHRONIC SCENARIO	1.00	12.79

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

Lakes Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:53

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:	5.84 (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:	1.60E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:53 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.	0.016	1.60E-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)	0.13	0.11	0.17	0.17	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 _{pot}	6.97E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	5.36E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	3.99E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:54

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:	6.00 (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:	0.30 (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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 54 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.	0.3	0.30	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)	2.37	1.98	3.11	3.11	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 _{pot}	7.16E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	5.51E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	7.49E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:55

Number of Release Sites: 1.

Release Activity: Sullivan 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	3.65 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	1.00E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:55

RELEASE ACTIVITY: Sullivan 365 dy

FACILITY NAME: SULLIVAN WWTP

FACILITY LOCATION: SULLIVAN MO 63080

RECEIVING WATER NAME: SPRING CR

REACH NUMBER: 07140103011

FACILITY ON REACH: Unk DISCHARGE TYPE: Direct

NPDES PERMIT #: MO0104736

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	365.	0.01	1.00E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	64.11	27.41	16.41	13.65	NA
CONCENTRATION (µg/L)	0.16	0.36	0.61	0.73	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 _{pot}	8.58E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	6.60E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.38E-05 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:56

Number of Release Sites: 1.

Release Activity: Sullivan 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 EXPOSURE REVIEW REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:56 RELEASE ACTIVITY: Sullivan 20 dy
 FACILITY NAME: SULLIVAN WWTP
 FACILITY LOCATION: SULLIVAN MO 63080
 RECEIVING WATER NAME: SPRING CR
 REACH NUMBER: 07140103011 FACILITY ON REACH: Unk DISCHARGE TYPE: Direct
 NPDES PERMIT #: MO0104736 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.18	0.18	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	64.11	27.41	16.41	13.65	NA
CONCENTRATION (µg/L)	2.81	6.57	10.97	13.19	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 _{pot}	8.46E-07 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	6.51E-05 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.49E-04 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 56

RELEASE ACTIVITY: Sullivan 20 dy

FACILITY NAME: SULLIVAN WWTP

FACILITY LOCATION: SULLIVAN MO 63080

RECEIVING STREAM NAME: SPRING CR

REACH NUMBER: 07140103011

FACILITY ON REACH: Unk

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER: MO0104736

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): 181.90

7q10 FLOW (MLD): 16.41

EFFLUENT FLOW (MLD):2.61

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 (%)
3.00	2	7	20.00	0.18	0.00
788.00	0	0	20.00	0.18	0.00
920.00	0	0	20.00	0.18	0.00
1.44E+04	0	0	20.00	0.18	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:57

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:	1.82 (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:	5.00E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 57 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.	0.005	5.00E-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)	1.46E-03	4.59E-03	6.73E-03	8.31E-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 _{pot}	8.02E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	6.17E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	1.74E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:58

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:	8.30E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:58 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.	0.083	8.30E-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	7.61E-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 _{pot}	7.30E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	5.61E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	2.88E-06 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:59

Number of Release Sites: 1.

Release Activity: Port of Sunnyside 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.73 (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:	2.00E-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: TCE-0

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

SCENARIO #: 59 Number of Sites: 1 RELEASE ACTIVITY: Port of Sunnyside 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.	0.002	2.00E-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	6.94E-03	1.61E-02	2.56E-02	3.03E-02
ALL	10	39.60	13.29	7.76	7.57	5.05E-02	0.15	0.26	0.26

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 _{pot}	3.82E-08	2.78E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	2.94E-06	2.14E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	6.12E-07	5.70E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:60

Number of Release Sites: 1.

Release Activity: Port of Sunnyside 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.70 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	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 REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

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

SCENARIO #: 60 Number of Sites: 1 RELEASE ACTIVITY: Port of Sunnyside 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.	0.035	3.50E-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	0.45	0.53
ALL	10	39.60	13.29	7.76	7.57	0.88	2.63	4.51	4.62

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 _{pot}	3.66E-08	2.66E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	2.82E-06	2.05E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	1.07E-05	9.97E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 60 RELEASE ACTIVITY: Port of Sunnyside 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
3.00	1	5	20.00	3.50E-02	0.00	High
788.00	0	0	20.00	3.50E-02	0.00	High
920.00	0	0	20.00	3.50E-02	0.00	High
1.44E+04	0	0	20.00	3.50E-02	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:61

Number of Release Sites: 1.

Release Activity: USAF 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.73 (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:	2.00E-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: TCE-0

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

SCENARIO #: 61 Number of Sites: 1 RELEASE ACTIVITY:USAF 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.	0.002	2.00E-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	6.94E-03	1.61E-02	2.56E-02	3.03E-02
ALL	10	39.60	13.29	7.76	7.57	5.05E-02	0.15	0.26	0.26

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 _{pot}	3.82E-08	2.78E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	2.94E-06	2.14E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	6.12E-07	5.70E-06	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:62

Number of Release Sites: 1.

Release Activity: USAF 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:	3.20E-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: TCE-0

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

SCENARIO #: 62 Number of Sites: 1 RELEASE ACTIVITY:USAF 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.	0.032	3.20E-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	0.11	0.26	0.41	0.48
ALL	10	39.60	13.29	7.76	7.57	0.81	2.41	4.12	4.23

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 _{pot}	3.35E-08	2.44E-07	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	2.58E-06	1.87E-05	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	9.79E-06	9.12E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 62

RELEASE ACTIVITY: USAF 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
3.00	1	4	20.00	3.20E-02	0.00	High
788.00	0	0	20.00	3.20E-02	0.00	High
920.00	0	0	20.00	3.20E-02	0.00	High
1.44E+04	0	0	20.00	3.20E-02	0.00	High

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:63

Number of Release Sites: 1.

Release Activity: Gnf-A 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.15 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	4.00E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:63

RELEASE ACTIVITY: Gnf-A 365 dy

FACILITY NAME: GLOBAL NUCLEAR FUEL-AMERICAS

FACILITY LOCATION: WILMINGTON NC 28402

RECEIVING WATER NAME: NE CAPE FEAR R

REACH NUMBER: 03030007001

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT #: NC0001228

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	365.	0.0004	4.00E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1313.96	315.54	205.88	168.25	NA
CONCENTRATION (µg/L)	3.04E-04	1.27E-03	1.94E-03	2.38E-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 _{pot}	1.67E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.29E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	4.80E-08 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 63	RELEASE ACTIVITY: Gnf-A 365 dy	
FACILITY NAME: GLOBAL NUCLEAR FUEL-AMERICAS		
FACILITY LOCATION: WILMINGTON NC 28402		
RECEIVING STREAM NAME: NE CAPE FEAR R		
REACH NUMBER: 03030007001	FACILITY ON REACH: No	DISCHARGE TYPE: Direct
NPDES PERMIT NUMBER: NC0001228	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): 5634.95	7q10 FLOW (MLD): 205.88	EFFLUENT FLOW (MLD): 2.59

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 (%)
3.00	0	0	365.00	4.00E-04	0.00
788.00	0	0	365.00	4.00E-04	0.00
920.00	0	0	365.00	4.00E-04	0.00
1.44E+04	0	0	365.00	4.00E-04	0.00

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:64

Number of Release Sites: 1.

Release Activity: Gnf-A 20 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	0.14 (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:	7.00E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
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SCENARIO NUMBER:64

RELEASE ACTIVITY: Gnf-A 20 dy

FACILITY NAME: GLOBAL NUCLEAR FUEL-AMERICAS

FACILITY LOCATION: WILMINGTON NC 28402

RECEIVING WATER NAME: NE CAPE FEAR R

REACH NUMBER: 03030007001

FACILITY ON REACH: No

DISCHARGE TYPE: Direct

NPDES PERMIT #: NC0001228

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	20.	0.007	7.00E-03	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	1313.96	315.54	205.88	168.25	NA
CONCENTRATION (µg/L)	5.33E-03	2.22E-02	3.40E-02	4.16E-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 _{pot}	1.61E-09 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.24E-07 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	8.40E-07 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:65

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:	0.11 (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:	3.00E-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: TCE-0

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

SCENARIO #: 65 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.	0.0003	3.00E-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	1.04E-03	2.42E-03	3.84E-03	4.54E-03
ALL	10	39.60	13.29	7.76	7.57	7.58E-03	2.26E-02	3.87E-02	3.96E-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 _{pot}	5.73E-09	4.17E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	4.41E-07	3.21E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	9.18E-08	8.55E-07	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:66

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:	0.10 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)
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Non-sludge/Sludge

Release Days/yr:	20.00	0.00/0.00	N/A	N/A
Per Site Release:	5.00E-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: TCE-0

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

SCENARIO #: 66 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.	0.005	5.00E-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	1.74E-02	4.04E-02	6.40E-02	7.57E-02
ALL	10	39.60	13.29	7.76	7.57	0.13	0.38	0.64	0.66

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 _{pot}	5.23E-09	3.81E-08	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	4.02E-07	2.93E-06	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	1.53E-06	1.42E-05	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:67

Number of Release Sites: 1.

Release Activity: Coal 365 dy

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:	7.30E-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:	365.00	0.00/0.00	N/A	N/A
Per Site Release:	2.00E-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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 67 RELEASE ACTIVITY: Coal 365 dy
 FACILITY NAME: COAL GROVE STP VILLAGE OF
 FACILITY LOCATION: COAL GROVE OH 45638
 RECEIVING WATER NAME: OHIO R
 REACH NUMBER: 05090103035 FACILITY ON REACH: No DISCHARGE TYPE: Direct
 NPDES PERMIT #: OH0029432 EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
0.	365.	0.0002	2.00E-04	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER					
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	8.00E+04	2.09E+04	1.58E+04	1.25E+04	NA
CONCENTRATION (µg/L)	2.50E-06	9.57E-06	1.27E-05	1.60E-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 _{pot}	1.38E-11 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	1.06E-09 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	3.62E-10 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: TCE-0

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:68

Number of Release Sites: 1.

Release Activity: Coal 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: TCE-0

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:68 RELEASE ACTIVITY: Coal 20 dy
 FACILITY NAME: COAL GROVE STP VILLAGE OF
 FACILITY LOCATION: COAL GROVE OH 45638
 RECEIVING WATER NAME: OHIO R
 REACH NUMBER: 05090103035 FACILITY ON REACH: No DISCHARGE TYPE: Direct
 NPDES PERMIT #: OH0029432 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)	8.00E+04	2.09E+04	1.58E+04	1.25E+04	NA
CONCENTRATION (µg/L)	3.75E-05	1.44E-04	1.90E-04	2.39E-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 _{pot}	1.13E-11 mg/kg/day		0.00 mg/kg/day	
LADC _{pot}	8.70E-10 mg/L		0.00 mg/kg	
Acute				
ADR _{pot}	5.44E-09 mg/kg/day		0.00	mg/kg/day

Surface Water Comments:

