



United States
Environmental Protection Agency

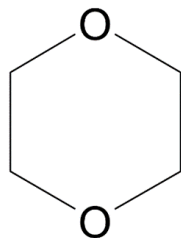
Office of Chemical Safety and
Pollution Prevention

Risk Evaluation for 1,4-Dioxane

Supplemental File:

Aquatic Exposure Screen Facility Information

CASRN: 123-91-1



June 2019

Tables 1 and 2 show discharging facility information that was downloaded from EPA’s Enforcement and Compliance History Online (ECHO) Water Pollutant Loading Tool. Table 1 contains the top ten discharging facilities from the Discharge Monitoring Report (DMR) for years 2015 and 2016, which were the most recent complete reporting years available at the time of the screening-level assessment. Table 2 contains the top ten discharging facilities from the Toxics Release Inventory (TRI) for years 2014 and 2015, which were the most recent complete reporting years available at the time of the screening-level assessment. Information was only pulled for the top ten dischargers for each of the years covered for the purposes of this screening-level assessment. Key pieces of information that were used for surface water modeling to estimate surface water concentrations included the site name, site location, National Pollutant Discharge Elimination System (NPDES) code, and total pounds released (DMR) or direct TRI pounds (TRI). These reported annual loading amounts (lbs/year) were used to generate the release inputs required by E-FAST (kg/day) by converting from lbs to kgs and dividing by the number of release days for a given scenario. The release inputs (kg/day) are shown in Tables E-3 and E-4 of the Draft Risk Evaluation for 1,4-Dioxane.

Table 1 DMR Top Ten Dischargers Used for Aquatic Exposure Screening-Level Assessment

DMR Top Facility Dischargers, Water Pollutant Loading Tool																	
NPDES	FRS_ID	Name	City	ST	Lat	Long	SIC Code	Mean Effluent Conc. (mg/L)	Max Effluent Conc. (mg/L)	Total Pounds Released (lbs/yr)	Max Allowable Load (lbs/yr)	Outlier/Data Error Flag	%tile (calculated)	Reach Code	Water-body Name	Mean Effluent Flow (MGD)	Mean Effluent Flow (MLD)
2016 Data																	
WV0000132	110064606010	M and G POLYMERS USA, LLC	APPLE GROVE	WV	38.6667	-82.1832	2821	11.7	67.9	30,319	blank		100%	05090101000058	Ohio River	0.54	2.04
SC0026506	110016953224	DAK AMERICAS LLC COOPER RIVER PLANT	MONCKS CORNER	SC	33.0567	-79.9414	2821	6.67	9.9	21,532	blank		97%	03050201000870	Cooper River	1.97	7.46
SC0046311	110006623270	LAKE CITY WASTE WATER TREATMENT PLANT	LAKE CITY	SC	33.8722	-79.6139	4952	0.303	0.55	2,980	91449		93%	03040202002501	Lynches River	3.35	12.68
WV0000086	110064632312	INSTITUTE PLANT	INSTITUT E	WV	38.3864	-81.7984	2869	0.044	0.2	598	blank		90%	05050008000998	Rocky Fork	73.2	277.09
NY0001643	110000492173	EASTMAN KODAK - KODAK PARK	ROCHESTER	NY	43.1978	-77.6298	3861	0.21	1	173	44984		87%	04130003000001	Round Pond Creek	6.94	26.27
PA0026492	110000716217	THE SCRANTON SEWER AUTHORITY WWTP	SCRANTON	PA	41.3875	-75.6929	4952	0.0034	0.0034	121	blank		83%	02050107000110	Lackawanna River	10.5	39.75
CA0054011	110000525995	LOS COYOTES WATER	CERRITOS	CA	33.8799	-118.104	4952	0.0019	0.002	89.6	blank		80%	18070106000026	San Gabriel River	16.1	60.94

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DMR Top Facility Dischargers, Water Pollutant Loading Tool																	
NPDES	FRS_ID	Name	City	ST	Lat	Long	SIC Code	Mean Effluent Conc. (mg/L)	Max Effluent Conc. (mg/L)	Total Pounds Released (lbs/yr)	Max Allowable Load (lbs/yr)	Outlier/Data Error Flag	%tile (calculated)	Reach Code	Water-body Name	Mean Effluent Flow (MGD)	Mean Effluent Flow (MLD)
		RECLAMATION PLANT															
DTMIU 0161	11000927 1983	BEACON HEIGHTS LANDFILL	BEACON FALLS	CT	41.432	-73.0353	not listed	1.25	1.7	87.9	blank		77%	0110000 5001883	"Not Found"	0.029	0.11
CA0053 911	11000052 6538	SAN JOSE CREEK WATER RECLAMATION PLANT	WHITTIER	CA	34.0322	-118.021	4952	0.00051	0.0012	69.07	blank		73%	1807010 6000770	San Gabriel River	25.4	96.15
CA0056 227	11000052 6556	DONALD C TILLMAN WRP	VAN NUYS	CA	34.1801	-118.483	4952	0.00105	0.00105	43.1	blank		70%	1807010 5000097	Los Angeles River	26.3	99.56
2015 Data																	
WV000 0132	11006460 6010	M and G POLYMERS USA, LLC	APPLE GROVE	WV	38.6667	-82.1832	2821	26.9	48.1	20,974	blank		100%	0509010 1000058	Ohio River	0.38	1.44
SC0026 506	11001695 3224	DAK AMERICAS LLC COOPER RIVER PLANT	MONCKS CORNER	SC	33.0567	-79.9414	2821	6.77	8.2	20,287	blank		96%	0305020 1000870	Cooper River	1.87	7.08
SC0046 311	11000662 3270	LAKE CITY WASTE WATER TREATMENT PLANT	LAKE CITY	SC	33.8722	-79.6139	4952	0.26	0.53	2,365	91449		92%	0304020 2002501	Lynches River	3.41	12.91
SC0002 798	11003816 0272	AURIGA POLYMERS INC - SPARTANBURG FACILITY	SPARTANBURG	SC	35.0278	-81.879	2821	0.17	2.4	342	blank		88%	0305010 5000403	Pacolet River	0.54	2.04
WV000 0086	11006463 2312	INSTITUTE PLANT	INSTITUTE	WV	38.3864	-81.7984	2869	0.042	0.23	202	blank		84%	0505000 8000998	Rocky Fork	88.8	336.14
CA0054 011	11000052 5995	LOS COYOTES WATER RECLAMATION PLANT	CERRITOS	CA	33.8799	-118.104	4952	0.0018	0.0018	73.8	blank		80%	1807010 6000026	San Gabriel River	17.2	65.11
CA0053 953	11003977 8176	LA-GLENDALE WRP	LOS ANGELES	CA	34.1412	-118.273	4952	0.0019	0.00209	59.5	blank		76%	1807010 5000050	Los Angeles River	9.88	37.40
CA0056 227	11000052 6556	DONALD C. TILLMAN WRP	VAN NUYS	CA	34.1801	-118.483	4952	0.0012	0.0012	48.6	blank		72%	1807010 5000097	Los Angeles River	27.2	102.96
MO010 1184	11001798 0443	BUCKMAN LABORATORIES, INCORPORATED	CADET	MO	37.9843	-90.6923	2899	0.035	0.13	44.2	blank		68%	0714010 4001615	Mill Creek	0.24	0.91

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DMR Top Facility Dischargers, Water Pollutant Loading Tool																	
NPDES	FRS_ID	Name	City	ST	Lat	Long	SIC Code	Mean Effluent Conc. (mg/L)	Max Effluent Conc. (mg/L)	Total Pounds Released (lbs/yr)	Max Allowable Load (lbs/yr)	Outlier/Data Error Flag	%tile (calculated)	Reach Code	Waterbody Name	Mean Effluent Flow (MGD)	Mean Effluent Flow (MLD)
NY0001643	110000492173	EASTMAN KODAK - KODAK PARK	ROCHESTER	NY	43.1978	-77.6298	3861	0.00054	0.0041	43.6	74460		64%	04130003000001	Round Pond Creek	9.35	35.39

Table 2 TRI Top Ten Dischargers Used for Aquatic Exposure Screening-Level Assessment

TRI Top Facility Dischargers, Water Pollutant Loading Tool														
NPDES	Secondary NPDES	FRS_ID	TRI Facility ID	Facility Name	City	ST	Lat	Long	NAICS	Direct TRI Pounds (lbs/yr)	%tile	Direct TRI pounds (kg/yr)	Reach Code	Waterbody Name
2015 Data														
SC0026506		110016953224	29423DKMRC CYPRE	DAK AMERICAS LLC COOPER RIVER PLANT	MONCKS CORNER	SC	33.05671	-79.9414	325211	17857	1.00	8,100	03050201000870	Cooper River
LA0004057		110000449934	70791GRNTC HWY61	BASF CORP	ZACHARY	LA	30.61325	-91.2333	325199	11820	0.99	5,361	8,090,201,000,180	Savannah Branch
LA0000329		110003266849	70805LLDSG CORNE	HONEYWELL INTERNATIONAL INC-BATON ROUGE PLANT	BATON ROUGE	LA	30.47444	-91.1831	325199	2284	0.99	1,036	08070100000180	Mississippi River
TX0006483		110008170237	77541THDWC BUILD	DOW CHEMICAL CO FREEPORT FACILITY	FREEPORT	TX	28.98314	-95.3956	486990	2077	0.98	942	12040205000450	Brazos River
LA0000191		110000597104	70057NNCRB HWY31	ST CHARLES OPERATIONS (TAFT/STAR) UNION CARBIDE CORP	HAHNVILLE	LA	29.98734	-90.4451	325199	1802	0.98	817	08090301006404	0701
KY0003484		110027373072	42029WSTLK 2468I	WESTLAKE VINYL INC	CALVERT CITY	KY	37.05111	-88.3342	325199	1621	0.97	735	06040006000172	Tennessee River
Not reported (in EFAST as TX0002844)		110007175154	77979NNCRB POBOX	UNION CARBIDE CORP SEADRIFT PLANT	SEADRIFT	TX	28.51064	-96.7715	325199	1411	0.96	640	Not reported	Not reported
NC0003719		110022439798	28302CMRCS POBOX	DAK AMERICAS LLC	FAYETTEVILLE	NC	34.98305	-78.7872	325211	968	0.96	439	03030004002138	Cape Fear River

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TRI Top Facility Dischargers, Water Pollutant Loading Tool														
NPDES	Secondary NPDES	FRS_ID	TRI Facility ID	Facility Name	City	ST	Lat	Long	NAICS	Direct TRI Pounds (lbs/yr)	%tile	Direct TRI pounds (kg/yr)	Reach Code	Waterbody Name
LA0116602 (in EFAST as LA0003301)		110001244724	70765THDWC HIGHW	THE DOW CHEMICAL CO - LOUISIANA OPERATIONS	PLAQUEMINE	LA	30.3209	-91.239	325199	879	0.95	399	08070300001655	Intracoastal Waterway (bayou Bourbeaux)
KY0003603		110000380061	42029PNNWL ALTON	ARKEMA INC	CALVERT CITY	KY	37.04902	-88.3692	325180	586	0.94	266	06040006000329	Tennessee River
2014 Data														
SC0026506		110016953224	29423DKMRC CYPRE	DAK AMERICAS LLC COOPER RIVER PLANT	MONCKS CORNER	SC	33.05671	-79.9414	325211	18,188	1.00	8,267	03050201000870	Cooper River
LA0000761		110000494894	70669PPGND COLUM	EAGLE US 2 LLC	WESTLAKE	LA	30.23033	-93.2858	325180	4,160	0.99	1,891	8.08021E+12	Bayou Verdine
LA0004057		110000449934	70791GRNTC HWY61	BASF CORP	ZACHARY	LA	30.61325	-91.2333	325199	2,643	0.99	1,201	08090201000180	Savannah Branch
LA0000329		110003266849	70805LLDSGC ORNE	HONEYWELL INTERNATIONAL INC-BATON ROUGE PLANT	BATON ROUGE	LA	30.47444	-91.1831	325199	2,272	0.98	1,033	08070100000180	Mississippi River
LA0000191		110000597104	70057NNCRB HWY31	ST CHARLES OPERATIONS (TAFT/STAR) UNION CARBIDE CORP	HAHNVILLE	LA	29.98734	-90.4451	325199	1,728	0.97	785	08090301006404	0701
KY0000388		110008361263	41114CTLTP OBOX	CATLETTSBURG REFINING LLC	CATLETTSBURG	KY	38.37725	-82.5972	324110	1,642	0.97	746	05070204000156	Miller Creek
TX0006483		110008170237	77541THDWC BUILD	DOW CHEMICAL CO FREEPORT FACILITY	FREEPORT	TX	28.98314	-95.3956	486990	1,513	0.96	688	12070104000624	Brazos River
LA0116602 (in EFAST as LA0003301)		110001244724	70765THDWC HIGHW	THE DOW CHEMICAL CO - LOUISIANA OPERATIONS	PLAQUEMINE	LA	30.3209	-91.239	325199	1,036	0.95	471	08070300001595	Not found
KY0003484		110027373072	42029WSTLK 2468I	WESTLAKE VINYL INC	CALVERT CITY	KY	37.05111	-88.3342	325199	670	0.95	305	06040006000172	Tennessee River
KY0003603		110000380061	42029PNNWL ALTON	ARKEMA INC	CALVERT CITY	KY	37.04902	-88.3692	325180	660	0.94	300	06040006000329	Tennessee River