DWMAPS GIS LAYERS and DATA SOURCES				
Layer/Data Description	Source of Information	Link to Additional Information		
	Basemaps			
Basemaps	ESRI			
	Potential Sources of Contamination: Permitted to Discharge			
NPDES Facilities (from the	Refuse Systems - SIC 4953 Establishments primarily engaged in the			
'upstream' tool)	collection and disposal of refuse.			
Refuse Facilities	EPA's Facility Registry Service (FRS) pulls from the National Pollutant	https://www.osha.gov/pls/imis/sic		
	Discharge Elimination System (NPDES) module of the Compliance			
NPDES Facilities (from the	Information System (ICIS). DWMAPS pulls the data quarterly. Sewerage Systems - SIC 4952 Establishments primarily engaged in the			
'upstream' tool)	collection and disposal of wastes conducted through a sewer system.			
Sewerage Facilities	EPA's Facility Registry Service (FRS) pulls from the National Pollutant	https://www.osha.gov/pls/imis/sic		
	Discharge Elimination System (NPDES) module of the Compliance	manual.display?id=954&tab=desc		
	Information System (ICIS). DWMAPS pulls the data quarterly.	ription		
NPDES Facilities (from the	Other Facilities - All other NPDES Facilities.			
Other Eacilities	EPA's Facility Registry Service (FRS) pulls from the National Pollutant			
Other Lacinties	Information System (ICIS), DWMAPS pulls the data guarterly.			
	Potential Sources of Contamination: Other Point Sources			
CERCLA Sites	EPA's Facility Registry Service (FRS) pulls from the Comprehensive			
	Environmental Response, Compensation, and Liability Information System			
	(CERCLIS). CERCLIS is EPA's inventory of abandoned, inactive, or			
	uncontrolled hazardous waste sites regulated under the Comprehensive			
	Environmental Response, Compensation, and Liability Act (CERCLA). It			
	discovery to listing on the National Priorities List (NPL). DWMAPS pulls FRS	http://www2.epa.gov/enviro/frs-		
	data quarterly.	data-sources		
RCRA Facilities	EPA's Facility Registry Service (FRS) pulls from the Resource Conservation			
	and Recovery Act Information (RCRAInfo) database. RCRAInfo is EPA's			
	Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and			
	Solid Waste Amendments (HSWA) of 1984 through the tracking of events			
	and activities related to facilities that generate, transport, and treat, store, or			
	dispose of hazardous waste. RCRAInfo allows RCRA program staff to track			
	the notification, permit, compliance, and corrective action activities required			
	Under RCRA. RCRAInto also supports generation of the National Hazardous			
	facilities who handle hazardous waste are required to report to the EPA			
	Administrator at least once every two years to support creation of the	http://www.app.gov/opviro/frs		
	Biennial Report. DWMAPS pulls FRS data quarterly.	data-sources		
TRI Facilities	EPA's Facility Registry Service (FRS) pulls from TRIS. TRIS is a publicly			
	available EPA database reported annually by certain covered industry			
	groups, as well as federal facilities. It contains information about more than			
	650 toxic chemicals that are being used, manufactured, treated, transported,			
	management and pollution prevention activities. DWMAPS pulls FRS data	http://www2.epa.gov/enviro/frs-		
	quarterly.	data-sources		
TSCA Facilities	EPA's Facility Registry Service (FRS) pulls from the Toxic Substances			
	Control Act (TSCA) database. The database that supports the Toxic			
	to require reporting, record-keeping and testing requirements, and			
	restrictions relating to chemical substances and/or mixtures. Certain			
	substances are generally excluded from TSCA, including, among others,			
	food, drugs, cosmetics and pesticides. TSCA addresses the production,			
	importation, use, and disposal of specific chemicals including	http://www2.epa.gov/enviro/frs-		
	DWMAPS alls EPS data quarterly	data-sources		
Potential Sources of Contamination: Non-point Sources				

Nitrogen	County Commercial Fertilizer Use Estimates (Nitrogen), 2006. From USGS	
	Water Resources NSDI Node. "County-Level Estimates of Nitrogen and	Nitrogen and Dheenhouse Dellution
	Phosphorus from Commercial Fertilizer for the Conterminous United States,	Nitrogen and Phosphorus Pollution
Pesticides	1987-2006. County Pesticide Use Estimates (Atrazine), 2007. From USGS Water	Data Access Tool
i esticides	Resources NSDI Node "Annual county atrazine use estimates for	
	agriculture. 1992-2007."	Metadata HTML format
Phosphorus	County Commercial Fertilizer Use Estimates (Phosphorus), 2006, From	
	USGS Water Resources NSDI Node. "County-Level Estimates of Nitrogen	
	and Phosphorus from Commercial Fertilizer for the Conterminous United	Nitrogen and Phosphorus Pollution
	States, 1987-2006."	Data Access Tool
-	Hydrography and Watersheds	
Catchments	NHDPlus_NP21/Catchments_NP21_Simplified (MapServer). This map	
	service contains simplified catchments from the EPA Office of Water	Link to Man Comise
Flood 100 year	NHDPlus V2.1 data set.	
	FEMA's Flood Insurance Rate Man (FIRM) databases. New data are added	
	continually. DWMAPS pulls the data quarterly.	https://hazards.fema.gov/femapor
Flood 500 year	CEMA National Flood Hazard Lover (NEHIL). The NEHIL date are from	
F1000, 500 year	FEMA National Flood Hazard Layer (NFHL). The NFHL data are from	https://hazards.fema.gov/femapor
	continually DW/MAPS pulls the data quarterly	tal/wps/portal/NFHLWMS
Impaired Waters	Office of Water (OW): 303(d) Listed Impaired Waters NHDPlus Indexed	
	Dataset with Program Attributes. Under Section 303(d) of the CWA, states,	
	territories, and authorized tribes (referred to here as states) are required to	
	develop lists of impaired waters. These are waters that are too polluted or	
	otherwise degraded to meet the state water quality standards. The law	
	requires that these jurisdictions establish priority rankings for waters on the	
	lists and develop TMDLs for these waters. Note: the CWA Section 303(d)	
	list of impaired waters does not contain impaired waters with an established	
	I MDL, impaired waters for which other pollution control mechanisms are in	http://water.epa.gov/scitech/datai
	prace and expected to attain water quality standards, or waters impaired as	t/tools/waters/data/downloads.cf
	a result of pollution. DWWAF 5 pulls the data quarterly.	<u>m</u>
Total Maximum Daily Loads	EPA Office of Water (OW): Impaired Waters with TMDLs NHDPlus Indexed	
(TMDL)	Dataset with Program Attributes. The Total Maximum Daily Load (TMDL)	
	Tracking System contains information on waters that are Not Supporting	
	their designated uses. These waters are listed by the state as impaired	
	under Section 303(d) of the Clean Water Act. The status of TMDLs are also	
	tracked. I MDLs are pollution control measures that reduce the discharge of	
	pollutants into impaired waters. A TMDL or Total Maximum Daily Load is a	
	calculation of the maximum amount of a pollutant that a waterbody can	
	amount to the pollutant's sources. What is a total maximum daily load	
	(TMDL)? Water quality standards are set by States. Territories, and Tribes	
	They identify the uses for each waterbody, for example, drinking water	
	supply, contact recreation (swimming), and aquatic life support (fishing), and	
	the scientific criteria to support that use. A TMDL is the sum of the allowable	
	loads of a single pollutant from all contributing point and nonpoint sources.	
	The calculation must include a margin of safety to ensure that the waterbody	
	can be used for the purposes the state has designated. The calculation	
	must also account for seasonal variation in water quality. The Clean Water	
	Act, section 303, establishes the water quality standards and TMDL	http://water.epa.gov/scitech/datai
	programs. DWMAPS pulls the data quarterly.	t/tools/waters/data/downloads.cf
		<u>m</u>

Assessed Waters	EPA Office of Water (OW): 305(b) Waters As Assessed NHDPlus Indexed Dataset with Program Attributes. The 305(b) program system provide assessed water data and assessed water features for river segments, lakes, and estuaries designated under Section 305(b) of the Clean Water Act. 305(b) waterbodies are coded onto NHDPlus v2.1 features creating area, point and linear events representing assessed and non-assessed waters. In addition to NHDPlus reach indexed data there may also be custom events (point, line, or area) that are not associated with NHDPlus and are in an EPA standard format that is compatible with EPA's Reach Address Database. These custom events are used to represent locations of 305(b) waterbodies that are not represented well in NHDPlus. DWMAPS pulls the data quarterly.			
	Note: Geospatial data in some states may appear to show a greater number of 'impaired' waters (from the 'impaired' waters layer) than 'assessed' waters. In these cases the states likely provided 'impaired' waters data from a more recent cycle than the 'assessed' waters data. As 'assessed' data from more recent reporting cycles become available, additional assessed water bodies will be available for use in DWMAPS.	http://water.epa.gov/scitech/datai t/tools/waters/data/downloads.cf m		
NPDES Facilities (from the layers menu)	Discharge Monitoring Report (DMR) data from the Discharge Monitoring Report (DMR) Pollutant Loading Tool. Data is pulled from EPA's ICIS- NPDES. For "major" facilities, EPA expects authorized states to enter compliance and enforcement information into the national databases for at least 95% of their permitted facilities. For "non-major" (or "minor") facilities, EPA does not require authorized states to enter compliance and enforcement information into ICIS-NPDES; however, many authorized states are providing the information voluntarily. DWMAPS pulls this data quarterly.	http://cfpub.epa.gov/dmr/faq.cf m		
National Hydrography	NHDPlus_NP21/NHDSnapshot_NP21 (MapServer). This map service			
Dataset (NHD)	contains GIS data from the EPA Office of Water NHDPlus v2.1 data set.	Link to Map Service		
HUC12 Density - SW	facilities to Watershed Boundary Dataset subwatershed polygons (HUC12s), and provide counts of surface and ground water facilities by state and HUC12. It is important to note that each PWS may comprise of multiple facilities that fall within different HUC12s, and therefore a PWS may not be related to a single HUC12, only a PWS's source facilities may be related to a single HUC12.			
	Grants			
Grants	2015.	http://ofmpub.epa.gov/apex/grts/f ?p=GRTS:199		
Collaboratives				
Areania	Geology and Landuse	1		
Arsenic	Ryker, S.J., 2001, Mapping arsenic in groundwaterA real need, but a hard problem: Geotimes Newsmagazine of the Earth Sciences, v. 46, no. 11, p. 34-36.	http://water.usgs.gov/GIS/metadat a/usgswrd/XML/arsenic_map.xml		
Karst	USA Karst. ArcGIS Online. USGS Source: USGS Source: U.S. Geological Survey Open-File Report 2004-1352. Original Data Description from USGS: These data are digital facsimiles of the original 1984 Engineering Aspects of Karst map by Davies and others. This data set was converted from a printed map to a digital GIS coverage to provide users with a citable national scale karst data set to use for graphic and demonstration purposes until new, improved data are developed.			
	The karst polygons of the original map were scanned from the stable base negatives of the original, vectorized, edited and then attributed with unit descriptions. All of these processes potentially introduce small errors and distortions to the geography. The original map was produced at a scale of 1:7,500,000; this coverage is not as accurate, and should be used for broad-scale purposes only. It is not intended for any site-specific studies.			
Land Use	USGS National Land Cover Database (NLCD) 2011	Link to Map Service		
Pipelines				

Crude Oil	Major crude oil pipelines in the United States. Created by EIA using publicly available data. Data period as of Nov. 2014. Layer includes interstate trunk lines and selected intrastate lines but excludes gathering lines. Based on publicly available data from a variety of sources with varying scales and levels of accuracy. This layer is not visible if zoomed in beyond 1:1,000,000 scale.	http://www.eia.gov/maps/layer_in fo-m.cfm
Hydrocarbon Gas Liquids	Major HGL pipelines in the United States. Created by EIA using publicly available data. Data period of Nov. 2014. Layer includes interstate trunk lines and selected intrastate lines. Based on publicly available data from a variety of sources with varying scales and levels of accuracy. This layer is not visible if zoomed in beyond 1:1,000,000 scale.	http://www.eia.gov/maps/layer_in fo-m.cfm
Natural Gas	Natural gas interstate and intrastate pipelines in the United States. Collected by EIA from FERC and other external sources. Data period as of Jan. 2012. Based on a variety of sources with varying scales and levels of accuracy and therefore accuracy is directly affected. This layer is not visible if zoomed in beyond 1:1,000,000 scale.	http://www.eia.gov/maps/layer_in fo-m.cfm
Petroleum Product	Major petroleum product pipelines in the United States. Created by EIA using publicly available data. Data period as of Nov. 2014. Layer includes interstate trunk lines and selected intrastate lines. Based on publicly available data from a variety of sources with varying scales and levels of accuracy. This layer is not visible if zoomed in beyond 1:1,000,000 scale.	http://www.eia.gov/maps/layer_in fo-m.cfm
	Transportation	1
Railroads	USDOT FRA National Rail Network. This map layer, utilizing data from the Federal Railroad Administration (FRA), displays the U.S. National Rail Network. Users can view the national freight and passenger rail systems. The freight network shows all privately owned freight rail lines labeled by the primary owner. The passenger network shows only municipal and Amtrak rail lines and is symbolized by the following passenger types: Commuter (C) Amtrak (A) Amtrak & Commuter (AC) Amtrak & Tourist (AT)	
	The data was downloaded from the National Transportation Atlas Database (NTAD) 2013 and is maintained by the U.S. Department of Transportation (USDOT).	http://www.arcgis.com/home/item .html?id=56f5c1bba4914292b0aab 74132148b3c#!
Roads, Hazardous Material Routes	Hazardous Material Routes. (MapServer). US Department of Transportation. This dataset contains state-assigned hazardous material routes developed using data from the 2012 National Transportation Atlas Database (NTAD).	http://maps1.arcgisonline.com/Arc GIS/rest/services/FMCSA Hazardo us_Material_Routes/MapServer
	Potential Sources of Contamination: Point Sources	• <u> </u>
CSO Outfalls, 2004	CSO Outfalls NHD Location. USEPA Office of Water. August, 2004. Data provided include CSO Outfall locations that were were georeferenced (reach indexed) to the National Hydrography Dataset (NHD). The CSO location information was part of the support materials for a special CSO Report to Congress (U.S. EPA 2004. Report to Congress: Impacts and Control of CSOs and SSOs United States. EPA 833-R-04-001. August, 2004. Office of Water Washington DC	