

EXHIBIT H: DATA CONNECTIONS

EXHIBIT H: WATERTAP DATA CONNECTIONS

WaterTAP is intended to connect multiple services (such as client applications, databases, and external APIs) in a decoupled architecture.

The SWRCB applications currently within the proposed WaterTAP scope are listed below:

Table H-1: Safe Drinking Water Information System

Name	SDWIS - Safe Drinking Water Information System		
Location	Stored in Microsoft on-prem SQL Server. Clone of data in Snowflake, refreshed daily		
Size	50 Gb		
Table Parameters	Estimated Number of Data Points	2 Billion	
	Columns (Low, High)	2	104
	Rows (Low, High)	1	28,961,127
Format	Import	xml	
	Export	xml, SQL Queries	

Table H-2: California Laboratory Intake Portal

Name	CLIP - California Laboratory Intake Portal	
Location	EarthSoft COTS platform (Cloud based)	
Size	Data stored in SDWIS	
Table Parameters	Estimated Number of Data Points	Total number of data elements per month: 7,400,000 Annual Average Daily Total data elements received: 250,000

Name	CLIP - California Laboratory Intake Portal		
		Estimated number of records received in 2024: 2,200,000	
		Average number of records received per month: 185,000	
		Each record contains 40 separate data elements	
	Columns (Low, High)	**	**
	Rows (Low, High)	**	**
Format	Import	csv, xml	
	Export	csv, xml	

Table H-3: System Area Boundary Layer

Name	SABL - System Area Boundary Layer		
Location	On-Prem (JAVA, Oracle, esri GIS)		
Size	20 Gb		
Table Parameters	Estimated Number of Data Points	150,000 located in one table	
	Columns (Low, High)	31	**
	Rows (Low, High)	4813	**
Format	Import	KMZ	
	Export	csv, shapefile, GeoJSON, GeoService, KML	

Table H-4: OnBase Enterprise Content Management

Name	OnBase ECM - Enterprise Content Management
Location	On-Prem (Hyland OnBase, File servers, SQL Server)

Name	OnBase ECM - Enterprise Content Management		
Size	**		
Table Parameters	Estimated Number of Data Points	30+ Million	
	Columns (Low, High)	**	**
	Rows (Low, High)	**	**
Format	Import	PDF, word, Excel, msg, jpg, png	
	Export	PDF, word, Excel, msg, jpg, png	

Table H-5: Electronic Annual Report

Name	eAR - electronic Annual Report		
Location	On-Prem (DotNet, SQL Server)		
Size	40 Gb		
Table Parameters	Estimated Number of Data Points	1.5 Billion	
	Columns (Low, High)	**	**
	Rows (Low, High)	**	**
Format	Import	PDF, word	
	Export	csv, txt, xml	

Table H-6: SAFER Clearinghouse

Name	SAFER Clearinghouse		
Location	Stored in Microsoft Azure (JAVA, Azure SQL Server)		
Size	70 Gb		
Table Parameters	Estimated Number of Data Points	1 Million	
	Columns (Low, High)	0	2,465,500

Name	SAFER Clearinghouse		
	Rows (Low, High)	0	140,000
Format	Import	csv, xml	
	Export	csv, xml	

Table H-7: Water Quality Management

Name	WQM - Water Quality Management		
Location	Stored in Microsoft DotNet, on-prem SQL Server		
Size	15 Gb		
Table Parameters	Estimated Number of Data Points	**	
	Columns (Low, High)	3	23
	Rows (Low, High)	2	40,533,935
Format	Import	csv	
	Export	**	

Table H-8: Child Care Lead

Name	CDSS - Child Care Lead		
Location	On-Prem (DotNet, SQL Server)		
Size	210 Mb		
Table Parameters	Estimated Number of Data Points	**	
	Columns (Low, High)	2	15
	Rows (Low, High)	0	68,496
Format	Import	csv, txt	
	Export	csv, txt	

The following applications are future development which will need to be included in WaterTAP in the future but will not be in development during WaterTAP rollout.

Table H-9: Environmental Laboratory Accreditation Program

Name	ELAP - Environmental Laboratory Accreditation Program
Location	On-Prem (DotNet, SQL Server, MS Access)
Size	200 Mb

Table H-9: Operator Certification

Name	OPCERT - Operator Certification (DWOCIS)
Location	On-Prem (JAVA, Oracle)
Size	<100 Mb

Table H-10: Electronic Coliform Reporting

Name	RTCR - Electronic Coliform Reporting
Location	TBD
Size	Electronic Coliform Reporting will add 100,000 records per month.

The following applications are sunsetting with WaterTAP rollout.

Table H-11: Lead Service Line Inventory

Name	LSLI - Lead Service Line Inventory		
Location	Microsoft Azure SQL Elastic Pool		
Size	**		
Table Parameters	Estimated Number of Data Points	252 Million	
	Columns (Low, High)	**	**

Name	LSLI - Lead Service Line Inventory		
	Rows (Low, High)	**	9,000,000+
Format	Import	csv, xml	
	Export	csv, xml	

Table H-12: School Lead Data

Name	SLD - School Lead Data
Location	On-Prem (DotNet, SQL Server)
Size	<200 Mb

Table H-13: Water Quality Information System

Name	WQIR - Water Quality Information Reporting
Location	On-Prem (DotNet, SQL Server)
Size	<200 Mb

All data contained in this EXHIBIT H: DATA CONNECTIONS are estimates and are intended to provide an understanding of the various applications that will interface with WaterTAP.

** Field data not available