Keys for the Data Gap Assessment

Links to Primary Resource Issues

KEY	
X	Complete Data Gap
X	Data Gap is related to Issue
/	Partial Data Gap
/	Partial Data Gap is related to Issue
	Link Between Data Category and Critical Issue
-	Complete Data

Data Gap Ranking By Linkage to Sub-Regional Primary Issues

Key	
Low	< 10
Medium	10 - 19
High	20 +

Data Gap Ranking By Linkage to County-wide Primary Issues

Key	
Low	< 20
Medium	20 - 39
High	40 +

KEY

X	Complete Data Gap
X	Data Gap is related to Issue
/	Partial Data Gap
	A link between data item and critical issue
-	Complete Data

		Watershed Managemetn Plan	Physical Setting			Hydrology				Biological Setting					Land Use			Demographics	Water Supply				Water Uses	Major Changes in the Watershed	Climate Change Considerations	Watershed Health			
Watershed Name	**Primary Issue**	**Watershed Managemetn Plan(s) Needed**	**Microclimate Data (ie. rain and temp)**	**Geology Analysis**	**Stream Gage**	**Hydrology Models**	**Peak Flow**	**Base Flow**	**Flood Risk Identification and Assessment**	**Vegetation Cover Identification**	**Invasive Species Identification and Assessment**	**Special Status Wildlife / Steelhead Trout Habitat Analysis**	**Stream Habitat Inventory**	**Fish Passage Barriers Analysis**	**Land Use Data**	**Potential Growth Areas**	**Other needed land use information**	**Demographic Data**	**Water Management Entities**	**Water Sources**	**Key Groundwater Percolation Area(s)**	**Water Budget**	**Water Uses**	**Watershed History/Major Changes**	**Climate Change Impact Analysis**	**Tributary Health Analysis**	**Water Quality**	**Groundwater Basin Health Analysis**	**Description of Data Gap**
Big Creek- San Carpoforo Area	Seawater Intrusion Into GW Basin	X	--	--	/	X	/	/	X	/	X	/	/	X	--	--	--	--	--	--	X	X	--	--	X	X	X	X	
	Limited GW Basin Yield	X	--	--	/	X	/	/	X	/	X	/	/	X	--	--	--	--	--	--	X	X	--	--	X	/*	X	X	* Determination of tributary health and strategies for increasing/capturing flows
	Outdated Groundwater Basin Data	X	--	--	/	X	/	/	X	/	X	/	/	X	--	--	--	--	--	--	X	X	--	--	X	X	X	X	
Santa Rosa Creek	Surface Flow Quantity	--	--	--	--	/	--	--	--	/	/	/	--	--	--	--	--	--	--	--	X	/*	--	--	X	X	X	--	*water budget data limited by age
	Surface Water Temperature	--	--	--	--	/	--	--	--	/	/	/	--	--	--	--	--	--	--	--	X	/	--	--	X	X	/	--	
	Low Dissolved Oxygen in Lagoon	--	--	--	--	/	--	--	--	/	/	/	--	--	--	--	--	--	--	--	X	/	--	--	/	X	X	--	
	Fine Sediment in Lower Reaches	--	--	--	--	/	--	--	--	/	/	/	--	--	--	--	--	--	--	--	X	/	--	--	/	X	X	--	
	Fish Passage Barriers	--	--	--	--	/	--	--	--	/	/	/	--	--	--	--	--	--	--	--	X	/	--	--	/	X	/	--	Identified: action ready
	Non-Native Invasive Species	--	--	--	--	/	--	--	--	/	/	/	--	--	--	--	--	--	--	--	X	/	--	--	/	X	/	--	Identified: action ready
	Sedimentation	--	--	--	--	/*	--	--	--	/	/	/	--	--	--	--	--	--	--	--	X	/	--	--	/	X	X	--	* Current Hydrology Models from 2002 outdated?
	Water Quantity	--	--	--	--	/*	--	--	--	/	/	/	--	--	--	--	--	--	--	--	X	X	--	--	X	X	/	--	* Current Hydrology Models from 2002 outdated?
	GW Basin Seawater Intrusion	--	--	--	--	/	--	--	--	/	/	/	--	--	--	--	--	--	--	--	X	/	--	--	X	X	X	--	
	GW Quality-Chloride	--	--	--	--	/	--	--	--	/	/	/	--	--	--	--	--	--	--	--	X	/	--	--	/	X	X	--	
	Outdated Basin Studies- Villa Valley Basin	--	--	--	--	/	--	--	--	/	/	/	--	--	--	--	--	--	--	--	X	X	--	--	/	X	/	X	
	Threat to Lagoon	X	/	--	/	X	/	/	--	X	X	/	/	--	--	--	--	--	--	--	X	X	--	--	X	X	X	--	

Watershed Name	Primary Issue	Watershed Managemetn Plan(s) Needed	Microclimate Data (ie. rain and temp)	Geology Analysis	Stream Gage	Hydrology Models	Peak Flow	Base Flow	Flood Risk Identification and Assessment	Vegetation Cover Identification	Invasive Species Identification and Assessment	Special Status Wildlife / Steelhead Trout Habitat Analysis	Stream Habitat Inventory	Fish Passage Barriers Analysis	Land Use Data	Potential Growth Areas	Other needed land use information	Demographic Data	Water Management Entities	Water Sources	Key Groundwater Percolation Area(s)	Water Budget	Water Uses	Watershed History/Major Changes	Climate Change Impact Analysis	Tributary Health Analysis	Water Quality	Groundwater Basin Health Analysis	Description of Data Gap
Cayucos Creek- Whale Rock Area	Loss of Riparian Width	X	/	--	/	X	/	/	--	X	X	/	/	--	--	--	/*	--	--	--	X	X	--	--	X	/	/	--	* Assess landuse patterns that may have an effect on riparian vegetation - water quality not assessed for cotton tail and old creeks
	Lack of Enforcement	X	/	--	/	X	/	/	--	/	X	/	/	--	--	--	--	--	--	--	X	X	--	--	/	/	/	--	Identified: action ready
	Water Quantity	X	/	--	X	X	X	X	--	/	X	/	/	--	--	--	--	--	--	--	X	X	--	--	X	X	/	/*	* GW basin should be reassessed taking into consideration climate change impacts
	Sedimentation	X	/	--	/	X	/	/	--	/	X	/	/	--	--	--	--	--	--	--	X	X	--	--	/	X	/	--	
	Sea Water Intrusion (Cayucos Valley Basin)	X	/	--	/	X	/	/	--	/	X	/	/	--	--	--	--	--	--	--	X	X	--	--	X	/	X	--	
	Nitrates	X	/	--	/	X	/	/	--	/	X	/	/	--	--	--	--	--	--	--	X	X	--	--	/	X	X	--	
	Outdated Basin Study- Cayucos Valley Basin	X	/	--	/	X	/	/	--	/	X	/	/	--	--	--	--	--	--	--	X	X	--	--	X	/	/	X	
	Alluvial Water Deposits Subject to Drought Impacts	X	/	--	X	X	X	X	--	/	X	/	/	--	--	--	--	--	--	--	X	X	--	--	X	X	/	X	
	Cayucos Creek 303(d) listed for enterococcus	X	/	--	X	X	X	X	--	/	X	/	/	--	--	--	--	--	--	--	X	X	--	--	X	X	--	X	
	Toro Creek 303(d) listed for fecal coliform and low dissolved oxygen	X	/	--	X	X	X	X	--	/	X	/	/	--	--	--	--	--	--	--	X	X	--	--	X	X	--	X	
	Outdated Groundwater Basin Analysis- Toro Valley	X	/	--	/	X	/	/	--	/	X	/	/	--	--	--	--	--	--	--	X	X	--	--	X	/	/	X*	* Deterine impacts to vegetation and analyze land use impacts - GW basin health analysis limited by age of study and lack of climate change impact analysis
	Loss of Riparian Vegetation	X	--	--	--	--	--	--	--	X	/	--	/	--	--	--	/*	--	--	--	X	/	--	--	/	X	/	/	* Assess landuse patterns that may have an effect on riparian vegetation
	Lack of Instream Flow	X	--	--	--	X	X	X	--	/	/	--	/	--	--	--	--	--	--	--	X	/	--	--	X	X	/	/	GW basin health analysis limited by age of study and lack of climate change impact analysis
	Excessive Sedimentation	X	--	--	--	X	--	--	--	/	/	--	/	--	--	--	--	--	--	--	X	/	--	--	/	X	/	/	Identified: action ready - GW basin health analysis limited by age of study and lack of climate change impact analysis

Watershed Name	Primary Issue	Watershed Managemetn Plan(s) Needed	Microclimate Data (ie. rain and temp)	Geology Analysis	Stream Gage	Hydrology Models	Peak Flow	Base Flow	Flood Risk Identification and Assessment	Vegetation Cover Identification	Invasive Species Identification and Assessment	Special Status Wildlife / Steelhead Trout Habitat Analysis	Stream Habitat Inventory	Fish Passage Barriers Analysis	Land Use Data	Potential Growth Areas	Other needed land use information	Demographic Data	Water Management Entities	Water Sources	Key Groundwater Percolation Area(s)	Water Budget	Water Uses	Watershed History/Major Changes	Climate Change Impact Analysis	Tributary Health Analysis	Water Quality	Groundwater Basin Health Analysis	Description of Data Gap
San Simeon- Arroyo de la Cruz	Gravel Mining	X	--	--	--	--	--	--	--	/	/	--	/	--	--	--	--	--	--	--	X	/	--	--	/	/	/	/	Identify prjects and BMP's to address issue - GW basin health analysis limited by age of study and lack of climate change impact analysis
	Grazing/Cattle	X	--	--	--	--	--	--	--	/	/	--	/	--	--	--	--	--	--	--	X	/	--	--	/	/	X	/	GW basin health analysis limited by age of study and lack of climate change impact analysis
	Low Dissolved Oxygen Kills Fish in Lagoon	X	--	--	--	X	X	X	--	/	/	--	/	--	--	--	--	--	--	--	X	/	--	--	X	/	X	/	GW basin health analysis limited by age of study and lack of climate change impact analysis
	Water pollution	X	--	--	--	--	--	--	--	/	/	--	/	--	--	--	--	--	--	--	X	/	--	--	/	/	X	/	Identified: action ready - GW basin health analysis limited by age of study and lack of climate change impact analysis
	Poaching	X	--	--	--	--	--	--	--	/	/	--	/	--	--	--	--	--	--	--	X	/	--	--	/	/	/	/	GW basin health analysis limited by age of study and lack of climate change impact analysis
	Sea Water Intrusion (Cayucos Valley Basin)	X	--	--	--	--	--	--	--	/	/	--	/	--	--	--	--	--	--	--	X	/	--	--	X	/	X	X	GW basin health analysis limited by age of study and lack of climate change impact analysis
	Water Supply of San Simeon CSD is at Certified Level III Severity Rating	X	--	--	--	X	X	X	--	/	/	--	/	--	--	--	--	--	--	--	X	X	--	--	X	X	/	X	GW basin health analysis limited by age of study and lack of climate change impact analysis
	Arroyo de la Cruz 303(d) listed for Escherichia coli, low dissolved oxygen	X	--	--	--	X	X	X	--	/	/	--	/	--	--	--	--	--	--	--	X	X	--	--	X	X	/	X	GW basin health analysis limited by age of study and lack of climate change impact analysis
	Pico Creek 303(d) listed for low dissolved oxygen, grazing related and natural sources	X	--	--	--	X	X	X	--	/	/	--	/	--	--	--	--	--	--	--	X	X	--	--	X	X	/	X	GW basin health analysis limited by age of study and lack of climate change impact analysis
	San Simeon Creek 303(d) listed for chloride, nitrate, low dissolved oxygen, sodium	X	--	--	--	X	X	X	--	/	/	--	/	--	--	--	--	--	--	--	X	X	--	--	X	X	/	X	GW basin health analysis limited by age of study and lack of climate change impact analysis
	Outdated Hydrological Studies for Area GW Basins	X	--	--	--	X	X	X	--	/	/	--	/	--	--	--	--	--	--	--	X	X	--	--	X	X	/	X	

Watershed Name	Primary Issue	Watershed Managemetn Plan(s) Needed	Microclimate Data (ie. rain and temp)	Geology Analysis	Stream Gage	Hydrology Models	Peak Flow	Base Flow	Flood Risk Identification and Assessment	Vegetation Cover Identification	Invasive Species Identification and Assessment	Special Status Wildlife / Steelhead Trout Habitat Analysis	Stream Habitat Inventory	Fish Passage Barriers Analysis	Land Use Data	Potential Growth Areas	Other needed land use information	Demographic Data	Water Management Entities	Water Sources	Key Groundwater Percolation Area(s)	Water Budget	Water Uses	Watershed History/Major Changes	Climate Change Impact Analysis	Tributary Health Analysis	Water Quality	Groundwater Basin Health Analysis	Description of Data Gap
Morro Bay	Accelerated sedimentation	--	--	--	--	/	/	/	--	/	--	/	/	--	--	--	--	--	--	--	X	X	--	--	--	--	--	/	
	Bacterial contamination	--	--	--	--	/	/	/	--	/	--	/	/	--	--	--	--	--	--	--	X	X	--	--	--	--	--	/	
	Elevated nutrient levels	--	--	--	--	/	/	/	--	/	--	/	/	--	--	--	--	--	--	--	X	X	--	--	--	--	--	/	
	Toxic pollutants	--	--	--	--	/	/	/	--	/	--	/	/	--	--	--	--	--	--	--	X	X	--	--	--	--	--	/	
	Scarce freshwater resources	--	--	--	--	/	/	/*	--	/	--	/	/	--	--	--	--	--	--	--	X	X	--	--	--	--	--	/	* there is no stream gage on Warden Creek. Existing stream gages may not capture base flows.
	Preserving biodiversity	--	--	--	--	/	/	/	--	/	--	/	/	--	--	--	--	--	--	--	X	X	--	--	--	--	--	/	
	Environmentally balanced use	--	--	--	--	/	/	/	--	x		/	x	--	--	--	--	--	--	--	X	X	--	--	--	--	--	/	
Of the 5 watershed areas in the North Coast sub-region, what number of data gaps are linked to a primary issue?		**27**	**0**	**0**	**2**	**13**	**7**	**14**	**0**	**9**	**4**	**11**	**1**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**16**	**17**	**0**	**0**	**20**	**20**	**18**	**16**	

KEY

X	Complete Data Gap
X	Data Gap is related to Issue
/	Partial Data Gap
	A link between data item and critical issue
-	Complete Data

			Physical Setting		Hydrology					Biological Setting					Land Use			Demographics	Water Supply				Water Uses	Major Changes in the Watershed	Climate Change Considerations	Watershed Health			
Watershed Name	**Primary Issue**	**Watershed Management Plan**	**Microclimate Data**	**Geology**	**Stream Gage**	**Hydrology Models**	**Peak Flow**	**Base Flow**	**Flood Risk Identification and Assessment**	**Vegetation Cover Identification**	**Invasive Species Identification and Assessment**	**Special Status Wildlife / Steelhead Trout Habitat Analysis**	**Stream Habitat Inventory**	**Fish Passage Barriers**	**Land Use**	**Potential Growth Areas**	**Other needed land use information**	**Demographic Data**	**Water Management Entities**	**Water Sources**	**Key Groundwater Percolation Areas**	**Water Budget**	**Beneficial Water Uses**	**Watershed History/Major Changes**	**Climate Change Impact Analysis**	**Tributary Health Analysis**	**Surface Water Quality**	**Groundwater Basin Health Analysis**	**Description of Data Gap**
Alamo Creek	Sedimentation of Twitchell Reservoir primarily from Cuyama River	X	--	/	/	/	/	/	/	/*	X	/	X	--	--	--	--	/	/	X	X	X	--	/	/	X	X	X	Primary issues are not well defined. * Vegetation data is over 10 years old.
Arroyo Grande Creek	Surface Water Quality - Temperature	--	/	--	--	--	--	/	--	/	/	/	/	--	--	--	--	/	--	--	/	/	--	--	/	/	/	/	See Surface Flow Quantity.
	Surface Water Quality - Nutrients and Dissolved Oxygen	--	/	--	--	--	--	/	--	/	/	/	/	--	--	--	--	/	--	--	/	/	--	--	/	/	/	/	
	Surface Flow Quantity	--	/	--	--	--	--	/*	--	/	/	/	/	--	--	--	--	/	--	--	/	/	--	--	/	/	/	/	*It is unknown if existing stream gages capture base flows.
	Fish Passage Barriers	--	/	--	--	--	--	/	--	/	/	/	/	--	--	--	--	/	--	--	/	/	--	--	/	/	/	/	See Surface Flow Quantity.
	Erosion and Sedimentation	--	/	--	--	--	--	/	--	/	/	/	/	--	--	--	--	/	--	--	/	/	--	--	/	/	/	/	

Watershed Name	Primary Issue	Watershed Management Plan	Microclimate Data	Geology	Stream Gage	Hydrology Models	Peak Flow	Base Flow	Flood Risk Identification and Assessment	Vegetation Cover Identification	Invasive Species Identification and Assessment	Special Status Wildlife / Steelhead Trout Habitat Analysis	Stream Habitat Inventory	Fish Passage Barriers	Land Use	Potential Growth Areas	Other needed land use information	Demographic Data	Water Management Entities	Water Sources	Key Groundwater Percolation Areas	Water Budget	Beneficial Water Uses	Watershed History/Major Changes	Climate Change Impact Analysis	Tributary Health Analysis	Surface Water Quality	Groundwater Basin Health Analysis	Description of Data Gap
	Flood Management	--	/	--	--	--	--	/	--	/	/	/	/	--	--	--	--	/	--	--	/	/	--	--	/	/	/	/	
Coastal Irish Hills	Residential development; loss of habitat	--	/	--	X	X	X	X	X	/*	X	/	X	--	--	/	--	--	X	/	X	X	--	--	/	X	X	--	*Vegetation cover data is not linked spatially in GIS and is not at the alliance level to accurately describe habitat.
	Agricultural development; loss of habitat	--	/	--	X	X	X	X	X	/*	X	/	X	--	--	/	--	--	X	/	X	X	--	--	/	X	X	--	*Vegetation cover data is not linked spatially in GIS and is not at the alliance level to accurately describe habitat.
	Sedimentation and loss of riparian cover - over grazing of sensitive areas	--	/	--	X	X	X	X	X	/	X	/	X*	--	--	/	--	--	X	/	X	X	--	--	/	X	X	--	*A stream habitat inventory provides basic instream and riparian habitat information.
	Proliferation of non-native species	--	/	--	X	X	X	X	X	/	X	/	X*	--	--	/	--	--	X	/	X	X	--	--	/	X	X	--	*A stream habitat inventory provides basic instream and riparian habitat information.
	Habitat degradation related to recreation	--	/	--	X	X	X	X	X	/*	X	/	X	--	--	/	--	--	X	/	X	X	--	--	/	X	X	--	*Vegetation cover data is not linked spatially in GIS and is not at the alliance level to accurately describe habitat.
Cuyama River	Sedimentation of Twitchell Reservoir	X	--	--	/	/	--	/	--	/	X	/	X	--	--	X	/	--	/	/	/	/	--	/	/	X	X	--	
	Groundwater Supplies	X	--	--	/	/	--	/	--	/	X	/	X	--	--	X	/	--	/	/	/	/*	--	/	/	X	X	--	*Previous studies have acknowledged limited data. A USGS/County of Santa Barbara study is expected to be complete in 2014.
Huasna River	Sedimentation of Twitchell Dam primarily from Cuyama River	X	--	/	/	X	/	/	/	/*	/	/	X	--	--	/	/	--	/	/	X	X	--	/	/	X	X	X	Issues are not well defined for this watershed. * Vegetation data is over 10 years old.
	Flooding	--	/	--	X	X	/	/	--	/	/	/	X	--	--	--	/	--	/	/	X	X	X	--	/	/	/	/	
	Habitat Fragmentation	--	/	--	X	X	/	/	--	/*	/	/	X	--	--	--	/	--	/	/	X	X	X	--	/	/	/	/	*Vegetation cover data is not linked spatially in GIS and is not at the alliance level.

Watershed Name	Primary Issue	Watershed Management Plan	Microclimate Data	Geology	Stream Gage	Hydrology Models	Peak Flow	Base Flow	Flood Risk Identification and Assessment	Vegetation Cover Identification	Invasive Species Identification and Assessment	Special Status Wildlife / Steelhead Trout Habitat Analysis	Stream Habitat Inventory	Fish Passage Barriers	Land Use	Potential Growth Areas	Other needed land use information	Demographic Data	Water Management Entities	Water Sources	Key Groundwater Percolation Areas	Water Budget	Beneficial Water Uses	Watershed History/Major Changes	Climate Change Impact Analysis	Tributary Health Analysis	Surface Water Quality	Groundwater Basin Health Analysis	Description of Data Gap
Nipomo-Suey Creeks	Surface Water Quality - Fecal Coliform & Sediment	--	/	--	X	X	/	/	--	/	/	/	X	--	--	--	/	--	/	/	X	X	X	--	/	/	/	/	
	Groundwater Quantity	--	/	--	X	X	/	/*	--	/	/	/	X	--	--	--	/	--	/**	/	X	X	X	--	/	/	/	/	*It is unknown how DWR determined a base flow estimate. There is no stream gage. **A large number of other water purveyors exist in the Nipomo Mesa area, but a source was not identified that records which are specifically in the Nipomo and Suey Creeks area.
	Invasive species	--	/	--	X	X	/	/	--	/	/	/	X	--	--	--	/	--	/	/	X	X	X	--	/	/	/	/	
Pismo Creek	Surface Water Quality - Temperature	--	/	--	X	--	/	/	--	/	/	/	--	--	--	--	--	--	/	--	/	X	--	--	/	/	/	--	
	Surface Water Quality - Nutrients and Dissolved Oxygen	--	/	--	X	--	/	/	--	/	/	/	--	--	--	--	--	--	/	--	/	X	--	--	/	/	/	--	
	Ocean Water Quality – Fecal coliform	--	/	--	X	--	/	/	--	/	/	/	--	--	--	--	--	--	/	--	/	X	--	--	/	/	/	--	
	Surface Flow Quantity	--	/	--	X	--	/	/	--	/	/	/	--	--	--	--	--	--	/	--	/	X	--	--	/	/	/	--	
	Groundwater Quantity	--	/	--	X	--	/	/	--	/	/	/	--	--	--	--	--	--	/	--	/	X	--	--	/	/	/	--	
	Fish Passage Barriers	--	/	--	X	--	/	/	--	/	/	/	--	--	--	--	--	--	/	--	/	X	--	--	/	/	/	--	
	Erosion and Sedimentation	--	/	--	X	--	/	/	--	/	/	/	--	--	--	--	--	--	/	--	/	X	--	--	/	/	/	--	
	Flood Management	--	/	--	X	--	/	/	--	/	/	/	--	--	--	--	--	--	/	--	/	X	--	--	/	/	x	--	
Santa Maria River	Lack of data on effects of cattle grazing	/	--	--	/	/	/	/	/	/	/	/	X	--	--	--	/	--	/	--	/	/	--	--	/	/	/	/	??
	Impaired surface water quality	/	--	--	/	/	/	/*	/	/	/	/	X	--	--	--	/	--	/	--	/	/	--	--	/	/	/	/	*The is a stream gage on the Santa Maria River itself but not other creeks encompasses in the area, i.e. Black Lake Canyon or Oso Flaco Creek
	Endangered or threatened species potential for incidental take.	/	--	--	/	/	/	/	/	/	/	/	X	--	--	--	/	--	/	--	/	/	--	--	/	/	/	/	
	Lack of data on plant and wildlife species.	/	--	--	/	/	/	/	/	/	/	/	X	--	--	--	/	--	/	--	/	/	--	--	/	/	/	/	

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	Erosion	/	--	--	/	/	/	/	/	/	/	/	X	--	--	--	/	--	/	--	/	/	--	--	/	/	/	/	
	Flooding	/	--	--	/	/	/	/	/	/	/	/	X	--	--	--	/	--	/	--	/	/	--	--	/	/	/	/	
	Balancing land use practices with conservation goals	/	--	--	/	/	/	/	/	/	/	/	X	--	--	--	/	--	/	--	/	/	--	--	/	/	/	/	
	Changes to flows, flow channels and sediment transport	/	--	--	/	/	/	/	/	/	/	/	X	--	--	--	/	--	/	--	/	/	--	--	/	/	/	/	
	Invasive riparian plant species	/	--	--	/	/	/	/	/	/	/	/	X	--	--	--	/	--	/	--	/	/	--	--	/	/	/	/	
	Sediment accretion	/	--	--	/	/	/	/	/	/	/	/	X	--	--	--	/	--	/	--	/	/	--	--	/	/	/	/	
	DDT and dieldrin	/	--	--	/	/	/	/	/	/	/	/	X	--	--	--	/	--	/	--	/	/	--	--	/	/	/	/	
San Luis Obispo Creek	Riparian Vegetation / Buffer Quality (Lack of riparian canopy)	/	--	--	--	--	--	/	--	/	/	/	/	--	--	--	--	--	--	--	/	X	--	--	/	/	/	/	
	Surface Water Nutrients and Dissolved Oxygen	/	--	--	--	--	--	/	--	/	/	/	/	--	--	--	--	--	--	--	/	X	--	--	/	/	/	/	
	Surface Water Temperature	/	--	--	--	--	--	/	--	/	/	/	/	--	--	--	--	--	--	--	/	X	--	--	/	/	/	/	
	Surface Water Pathogens	/	--	--	--	--	--	/	--	/	/	/	/	--	--	--	--	--	--	--	/	X	--	--	/	/	/	/	
	Surface Water Treated Effluent	/	--	--	--	--	--	/	--	/	/	/	/	--	--	--	--	--	--	--	/	X	--	--	/	/	/	/	
	Surface Water Priority Organics	/	--	--	--	--	--	/	--	/	/	/	/	--	--	--	--	--	--	--	/	X	--	--	/	/	/	/	
	Surface Water Quantity	/	--	--	--	--	--	/	--	/	/	/	/	--	--	--	--	--	--	--	/	X	--	--	/	/	/	/	
	Instream Fish Habitat	/	--	--	--	--	--	/	--	/	/	/	/	--	--	--	--	--	--	--	/	X	--	--	/	/	/	/	
	Fish Passage Barriers	/	--	--	--	--	--	/	--	/	/	/	/	--	--	--	--	--	--	--	/	X	--	--	/	/	/	/	
	Streambank Stability (Erosion)	/	--	--	--	--	--	/	--	/	/	/	/	--	--	--	--	--	--	--	/	X	--	--	/	/	/	/	
	Upland Erosion and Sedimentation	/	--	--	--	--	--	/	--	/	/	/	/	--	--	--	--	--	--	--	/	X	--	--	/	/	/	/	
	Exotic Plant Species	/	--	--	--	--	--	/	--	/	/	/	/	--	--	--	--	--	--	--	/	X	--	--	/	/	/	/	
	Non-Native Fish – Carp and Chinook Salmon	/	--	--	--	--	--	/	--	/	/	/	/	--	--	--	--	--	--	--	/	X	--	--	/	/	/	/	
	Debris Accumulation	/	--	--	--	--	--	/	--	/	/	/	/	--	--	--	--	--	--	--	/	X	--	--	/	/	/	/	
	Flooding	/	--	--	--	--	--	/	--	/	/	/	/	--	--	--	--	--	--	--	/	X	--	--	/	/	/	/	
Of the 10 watersheds in the South County sub-region, what number of data gaps are linked to a primary issue?		--	**0**	**0**	**6**	**4**	**9**	**21**	**3**	**16**	**7**	**9**	**14**	**0**	**0**	**2**	**0**	**0**	**5**	**1**	**7**	**7**	**0**	**1**	**13**	**24**	**24**	**7**	

KEY	
X	Complete Data Gap
X	Data Gap is related to Issue
/	Partial Data Gap
	A link between data item and critical issue
-	Complete Data

		Watershed Managemetn Plan	Physical Setting		Hydrology					Biological Setting					Land Use			Demographics	Water Supply				Water Uses	Major Changes in the Watershed	Climate Change Considerations	Watershed Health		
Watershed Name	**Primary Issue**	**Watershed Managemetn Plan(s) Needed**	**Microclimate Data (ie. rain and temp)**	**Geology Analysis**	**Stream Gage**	**Hydrology Models**	**Peak Flow**	**Base Flow**	**Flood Risk Identification and Assessment**	**Vegetation Cover Identification**	**Invasive Species Identification and Assessment**	**Special Status Wildlife / Steelhead Trout Habitat Analysis**	**Stream Habitat Inventory**	**Fish Passage Barriers Analysis**	**Land Use Data**	**Potential Growth Areas**	**Other needed land use information**	**Demographic Data**	**Water Management Entities**	**Water Sources**	**Key Groundwater Percolation Area(s)**	**Water Budget**	**Water Uses**	**Watershed History/Major Changes**	**Climate Change Impact Analysis**	**Tributary Health Analysis**	**Water Quality**	**Groundwater Basin Health Analysis**	**Description of Data Gap**
Black Sulphur Spring	Groundwater Quality	X	--	--	X	X	X	X	--	--	/	/	--	--	--	--	--	--	--	--	X	/	--	--	/	X	X	X	Issues are not well defined for this watershed.
	Groundwater Quantity	X	--	--	X	X	X	X	--	--	/	/	--	--	--	--	--	--	--	--	X	X	--	--	X	X	X	X	Issues are not well defined for this watershed.
	Outdated Studies of the GW Basin	X	--	--	X	X	X	X	--	--	/	/	--	--	--	--	--	--	--	--	X	/	--	--	X	X	X	X	Issues are not well defined for this watershed.
Soda Lake	Groundwater Quality	X	--	--	X	--	X	X	X	/	/	/	X	--	--	--	--	--	--	--	X	--	--	--	/	X	X	X	
	Groundwater Quantity	X	--	--	X	--	X	X	X	/	/	/	X	--	--	--	--	--	--	--	X	--	--	--	X	X	/	X	
	Soda Lake 303(d) listed for ammonia	X	--	--	X	--	X	X	X	/	/	/	X	--	--	--	--	--	--	--	X	--	--	--	X	X	--	/	
	Outdated Studies of the GW Basin	X	--	--	X	--	X	X	X	/	/	/	X	--	--	--	--	--	--	--	X	--	--	--	X	X	X	X	
Cholame Creek	Significant Water Level Declines (Paso Robles Basin)	X	/	--	X	/	X	X	X	/	/	/	X	--	--	--	--	--	--	--	X	*	--	--	X	X	/	*	* Paso Robles Basin study limited by lack of draw information from private
	Limited Groundwater Quality Information- Cholame Valley	X	/	--	X	/	X	X	X	/	/	/	X	--	--	--	--	--	--	--	X	/	--	--	/	X	X	X	
	No Yield Information and Limited Hydrogeologic Information for Cholame Basin	X	/	--	X	/	X	X	X	/	/	/	X	--	--	--	--	--	--	--	X	X	--	--	X	X	/	X	
	Cholame Creek 303(d) listed for boron, chloride, electrical conductivity, Escherichia coli, fecal coliform, low dissolved	X	/	--	X	/	X	X	X	/	/	/	X	--	--	--	--	--	--	--	X	/	--	--	X	X	/	/	
	Groundwater quality	X	/	--	X	/	X	X	X	/	/	/	X	--	--	--	--	--	--	--	X	/	--	--	X	X	X	X	
Estrella River	Significant Water Level Declines (Paso Robles Basin)	X	--	--	--	--	--	--	X	/	/	/	X	--	--	--	--	--	--	--	X	*	--	--	X	X	--	*	* Paso Robles Basin study limited by lack of draw information from private
	Estrella River 303(d) listed for boron, chloride, fecal coliform, sodium and pH	X	--	--	--	--	--	--	X	/	/	/	X	--	--	--	--	--	--	--	X	/	--	--	X	X	--	/	
	Groundwater Quality	X	--	--	--	--	--	--	X	/	/	/	X	--	--	--	--	--	--	--	/	/	--	--	X	X	--	X	
Huer Huerro Creek	Significant Water Level Declines (Paso Robles Basin)	X	--	--	/	--	/	/	X	/	/	/	X	X	--	--	--	--	--	--	/	*	--	--	X	X	X	*	* Paso Robles Basin study limited by lack of draw information from private
	Groundwater Quality	X	--	--	/	--	/	/	X	/	/	/	X	X	--	--	--	--	--	--	/	/	--	--	X	X	X	X	Issues are not well defined for this

Watershed Name	Primary Issue	Watershed Managemetn Plan(s) Needed	Microclimate Data (ie. rain and temp)	Geology Analysis	Stream Gage	Hydrology Models	Peak Flow	Base Flow	Flood Risk Identification and Assessment	Vegetation Cover Identification	Invasive Species Identification and Assessment	Special Status Wildlife / Steelhead Trout Habitat Analysis	Stream Habitat Inventory	Fish Passage Barriers Analysis	Land Use Data	Potential Growth Areas	Other needed land use information	Demographic Data	Water Management Entities	Water Sources	Key Groundwater Percolation Area(s)	Water Budget	Water Uses	Watershed History/Major Changes	Climate Change Impact Analysis	Tributary Health Analysis	Water Quality	Groundwater Basin Health Analysis	Description of Data Gap
Nacimiento River	Significant Water Level Declines (Paso Robles Basin)	--	--	--	--	--	--	--	/	/	/	/	--	--	--	--	--	--	--	--	X	*	--	--	X	X	/	*	* Paso Robles Basin study limited by lack of draw information from private
	Las Tablas Creek 303(d) listed for metals	--	--	--	--	--	--	--	/	/	/	/	--	--	--	--	--	--	--	--	/	/	--	--	X	X	--	/	
	Nacimiento Reservoir 303(d) listed for mercury, metals	--	--	--	--	--	--	--	/	/	/	/	--	--	--	--	--	--	--	--	/	/	--	--	X	X	--	/	
	Groundwater Quality	--	--	--	--	--	--	--	/	/	/	/	--	--	--	--	--	--	--	--	X	/	--	--	X	X	/	X	
	Steelhead Passage	--	--	--	--	--	--	--	/	/	/	/	--	--	--	--	--	--	--	--	/	/	--	--	X	X	/	X	
Lower Salinas - Paso Robles Creek Area	Significant Water Level Declines (Paso Robles Basin)	X	--	--	--	--	--	X--	/	/	X	/	--	--	--	--	--	--	--	--	X	*	--	--	X	X	/	*	* Paso Robles Basin study limited by lack of draw information from private
	Salinas River 303(d) listed for sodium and chloride	X	--	--	--	--	--	--	/	/	X	/	--	--	--	--	--	--	--	--	/	/	--	--	X	X	--	/	
	Groundwater Quality	X	--	--	--	--	--	--	/	/	X	/	--	--	--	--	--	--	--	--	/	/	--	--	/	X	X	X	
	Steelhead Passage	X	--	--	--	--	--	--	/	/	X	--	--	--	--	--	--	--	--	--	/	/	--	--	X	X	X	X	
Lower San Juan Creek	Significant Water Level Declines (Paso Robles Basin)	X	/	--	X	--	X	X	/	/	X	/	X	--	--	--	--	--	--	--	/	*	--	--	X	X	X	*	* Paso Robles Basin study limited by lack of draw information from private
	Groundwater Quality	X	/	--	X	--	X	X	/	/	X	/	X	--	--	--	--	--	--	--	/	/	--	--	/	X	X	X	Issues are not well defined for this
Upper San Juan Creek	Significant Water Level Declines (Paso Robles Basin)	X	--	--	X	/	X	X	X	/	X	/	X	--	--	--	--	--	--	--	X	*	--	--	X	X	X	*	* Paso Robles Basin study limited by lack of draw information from private
	Groundwater Quality	X	--	--	X	/	X	X	X	/	X	/	X	--	--	--	--	--	--	--	/	/	--	--	/	X	X	X	Issues are not well defined for this
Mid Salinas - Atascadero Area	Significant Water Level Declines (Paso Robles Basin)	X	/	--	--	--	--	--	/	/	/	/	--	--	--	--	--	--	--	--	X	*	--	--	X	X	X	*	* Paso Robles Basin study limited by lack of draw information from private
	Groundwater Quality	X	/	--	--	--	--	--	/	/	/	/	--	--	--	--	--	--	--	--	/	/	--	--	/	X	X	X	
	Atascadero (Hale) Creek 303(d) listed for chloride, Escherichia coli, fecal coliform, low dissolved oxygen, and sodium	X	/	--	--	--	--	--	/	/	/	/	--	--	--	--	--	--	--	--	/	/	--	--	/	X	X	X	
	Limited Groundwater Basin Information (Rinconada Basin)	X	/	--	--	--	--	--	/	/	/	/	--	--	--	--	--	--	--	--	X	X	--	--	X	X	X	X	
	Steelhead Passage	X	/	--	--	--	--	--	/	/	/	/	--	--	--	--	--	--	--	--	X	X	--	--	X	X	X	X	
Upper Salinas - Santa Margarita Area	No Comprehensive Studies to Determine the Perennial Yield (Pozo Basin)	X	--	--	X	/	X	X	--	/	/	/	X	--	--	--	--	--	--	--	X	X	--	--	X	X	/	X	
	Declining Groundwater Levels	X	--	--	X	/	X	X	--	/	/	/	X	--	--	--	--	--	--	--	X	X	--	--	X	X	/	X	
	Salinas River 303(d) listed for sodium and chloride	X	--	--	X	/	X	X	--	/	/	/	X	--	--	--	--	--	--	--	/	/	--	--	X	X	--	X	
	Outdated information for Pozo GW Basin	X	--	--	X	/	X	X	--	/	/	/	X	--	--	--	--	--	--	--	X	X	--	--	X	X	/	X	
Of the 11 watersheds in the North County sub-region, what number of data gaps are linked to a primary issues?			**1**	**0**	**14**	**2**	**16**	**16**	**1**	**0**	**1**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**19**	**14**	**0**	**0**	**29**	**29**	**15**	**25**	