LOOP Information

	LOOP LA0049492
Flow	5.13-11.33MGD
Outfall/Type	Brine discharge from 004 to Gulf of Mexico (Louisiana)
Critical Dilution	Around 6-7%
Average TDS	318,500mg/L (319ppth)

Region 6
(Texas Permits)

Permit	Bryan Mound Oil Storage TX0074012 (Strategic Petroleum Reserve)	Big Hills Oil Storage TX0092827 (Strategic Petroleum Reserve)	Chevron Phillips TX0007587 (Similar operation to LOOP)
Flow MGD	2.6 MGD	2.86 MGD	1.26MGD
Outfall/Type	Brine discharge from 001 to Gulf of Mexico (Texas)	Brine discharge from 001 to Gulf of Mexico (Texas)	Brine discharge from 001 to San Bernard River
Critical Dilution	2.9%	2.6%	2%
WET Requirement	7day Chronic Marine	7day Chronic Marine	7day Chronic Marine
Average TDS	270,148mg/L (270ppth)	145,885mg/L (146ppth)	
WET Compliance History	16 years of WET testing (In compliance)	10 years of WET testing (In compliance)	WET failures led to a flow limit after a TRE was conducted and ion imbalance was established as source. (per industry request)
Mechanism to control WET	Flow Regulation CORMIX modeling using the MSTR to target a NOEC of 2.9%. Achieved by controlling nozzle exit velocity.	Flow Regulation CORMIX modeling using the MSTR to target a NOEC of 2.6%. Achieved by controlling nozzle exit velocity.	Flow LIMIT Discharge Percent of Stream Flow cannot exceed 2%

Region 6
(Louisiana)

Permit	West Hackberry **(Strategic Petroleum Reserve)**	Bayou Choctaw (Strategic Petroleum Reserve)
Deep well inject brine water.		

Region 10
(Alaska)

Permit	Type of Waste	Type of Test	Requirement (limit or report)
Beaufort Sea Oil and Gas Exploration GP (AKG292100)	Desalination Unit Wastes	7day Chronic- 3 species	Reporting – NOEC and IC25 (as TUc), LC50 at 24hr, 48hr, 96hr
Chukchi Sea Oil and Gas Exploration GP (AKG288100)	Desalination Unit Wastes	7day Chronic- 3 species	Reporting – NOEC and IC25 (as TUc), LC50 at 24hr, 48hr, 96hr
Oil and Gas Geotechnical Surveys and Related Activities in Federal Waters (AKG284300)	Desalination Unit Wastes	7day Chronic- 3 species	Reporting – NOEC and IC25 (as TUc), LC50 at 24hr, 48hr, 96hr
Prudhoe Bay (AK0029840)			
Kuparuk (AK0043354)			
Endicott (AK0038661)			

Region 4

(desalination brine discharges to marine waters)

Info to come…