

N42237.AR.000223
NSB KINGS BAY
5090.3a

LETTER REGARDING AUTHORIZATION TO DISCHARGE GROUNDWATER INTO ST
MARYS POINT PETER SEWAGE TREATMENT FACILITY NSB KINGS BAY GA
3/3/1994
ABB ENVIRONMENTAL



31547.000
09.01.00.0058

0672

3 March 1994

Georgia Department of Natural Resources
Georgia Environmental Protection Division
Atlanta Tradeport
4244 International Parkway
Suite 110
Atlanta, Georgia 30354

Attention: Mr. Winthrop Brown

Subject: Request for Authorization for Groundwater Discharge into the St. Marys' Point
Peter Sewage Treatment Facility by Naval Submarine Base Kings Bay, Georgia.
Naval Submarine Base Kings Bay, Georgia - Interim Measure
Contract Task Order 094
Prime Contract No. N62467-89-D-0317

Dear Mr. Brown:

ABB Environmental Services, Inc. (ABB-ES) is pleased to provide you with the additional information you requested of Mr. Kurt Sichelstiel of ABB-ES Knoxville Tennessee office. This conversation took place on 10 February 1994. We apologize in the delay for forwarding this information to you. We understand that you had requested that the Interim Measure Treatment System effluent concentrations be calculated based on the efficiencies of the manufacturer's supplied system. Using the manufacturer's system performance model and the estimated concentration levels of the 17 constituents of concern, we have provided a table of the system efficiencies and system effluent concentrations.

The table provides the estimated influent concentration, the percent efficient removal, and the system effluent estimated concentrations. We hope this provides the information you need to evaluate the Naval Submarine Base request to discharge to the City of St. Marys' Point Peter Sewage Treatment Facility. This table is in addition to the information provided in the document prepared by ABB-ES in conjunction with the request for discharge.

If you have any further questions, or need any additional information, please feel free to call me at (615) 531-1922, or contact Mr. John Garner of Naval Submarine Base Kings Bay at (912) 673-8845.

Sincerely,

ABB ENVIRONMENTAL SERVICES, INC.

Frank B. Cater, P.E.
Task Order Manager

pc: John Garner - Subbase
David Driggers - Southern Division
CTO 094 Files

ABB Environmental Services Inc.

Proposed Treatment System, Efficiencies and Estimated Effluent Concentrations For Treatment of Volatile Organic Compounds (VOCs)

Constituent of Concern	Estimated influent Concentration ($\mu\text{g}/\text{l}$)	Percent Efficient Removal	System Effluent Estimated Concentrations ($\mu\text{g}/\text{l}$)
Benzene	28	99.9	<1
2-Butanone	580	7	541
Chlorobenzene	10	99.8	<1
1,4-Dichlorobenzene	12	99.7	<1
1,1-Dichloroethane	100	99.9	<1
1,2-Dichloroethane	9	95.3	<1
cis-1,2-Dichloroethene	3,600	98.9	40
trans-1,2,-Dichloroethene	23	99.9	<1
1,2-Dichloropropane	6	99.0	<1
Ethylbenzene	200	99.9	<1
2-Hexanone	70	3	68
4-Methyl-2-pentanone	1,400	25.8	1,039
Tetrachloroethene	24	99.9	<1
Toluene	840	99.9	<1
Trichloroethene	45	99.9	<1
Xylenes (total)	155	99.9	<1
Vinyl Chloride	1,400	100	0

Notes:

$\mu\text{g}/\text{l}$ - micrograms per liter
 mg/l - milligrams per liter
VOC - volatile organic compounds