

Fang Yang - Fuel Consumption Estimates.doc

Thomas.

Gahagen and Bryant Associates, Inc. (GBA)

Personal communications with T. Ahmed. June 1, 2001

70716

Fuel Consumption Estimates

All estimates make the following assumptions:

Fuel consumption rate = 0.06 Gal/HP Hour

Average Working day = 17 hours/day

Average Working Month = 26 days/month (based on 6 day workweek)

\*Booster(s) = figures listed are for 1 booster. A maximum of 6 boosters would be used, spaced at 10,000 ft. apart for a maximum distance of 50,000 ft. If all 6 boosters were in use, there would be a corresponding reduction in the average workday to 14 hours.

Type of Vessel	Description of Equipment	Rated HP	Percent HP Used	Average HP Used	Monthly Operating Hours	Gals Fuel per Month
12" Hydraulic Cutterhead Suction Dredge (direct pipeline)	Main engines	600	60	360	442	9547
	Auxilliarics	100	60	60	442	1591
	Booster*	1000	60	600	442	15912
	Totals	1700		1020		27050
800 HP Towing Tug	Propulsion	800	50	400	442	10608
	Auxilliarics	100	50	50	442	1326
	Totals	1000		500		11934
150 HP Tender Tug	Propulsion	150	70	105	442	2785
	Auxilliarics	50	70	35	442	928
	Totals	200		140		3713
Survey Boat	Propulsion	100	70	70	442	1856
Totals						1856

Tang,  
the email - attached  
file sent by Jen. Am.

Fang

Post-It Fax Note

9971  
7671

To	Tang Ahmed	Date	12/05/01	# of pages	1
Co./Dept.	NYO	From	Fang Yang	Co.	NYO
Phone #		Phone #		Fax #	
Fax #		Fax #			

403523

\*\* TOTAL PAGE 01 \*\*