



United States of America  
Department of Homeland Security  
United States Coast Guard

Certification Date: 27 Nov 2023

Expiration Date: 27 Nov 2028

# Certificate of Inspection

For ships on international voyages this certificate fulfills the requirements of SOLAS 74 as amended, regulation V/14, for a SAFE MANNING DOCUMENT.

Vessel Name	Official Number	IMO Number	Call Sign	Service
CBR 2022	1248783			Tank Barge

Hailing Port	Hull Material	Horsepower	Propulsion
MORGAN CITY, LA	Steel		
UNITED STATES			

Place Built	Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
MORGAN CITY, LA	08Oct2013	01Aug2013	R-1619	R-1619		R-297.5
UNITED STATES			I-	I-		I-0

Owner	Operator
CENTRAL BOAT RENTALS INC 1640 RIVER RD PO BOX 2545 MORGAN CITY, LA 70381 UNITED STATES	CHEMICAL CARRIERS 1237 HIGHWAY 75 SUNSHINE, LA 70780 UNITED STATES

This vessel must be manned with the following licensed and unlicensed Personnel. Included in which there must be 0 Certified Lifeboatmen, 0 Certified Tankermen, 0 HSC Type Rating, and 0 GMDSS Operators.

0 Masters	0 Licensed Mates	0 Chief Engineers	0 Oilers
0 Chief Mates	0 First Class Pilots	0 First Assistant Engineers	
0 Second Mates	0 Radio Officers	0 Second Assistant Engineers	
0 Third Mates	0 Able Seamen	0 Third Assistant Engineers	
0 Master First Class Pilot	0 Ordinary Seamen	0 Licensed Engineers	
0 Mate First Class Pilots	0 Deckhands	0 Qualified Member Engineer	

In addition, this vessel may carry 0 Passengers, 0 Other Persons in crew, 0 Persons in addition to crew, and no Others. Total Persons allowed: 0

Route Permitted And Conditions Of Operation:  
**---Lakes, Bays, and Sounds plus Limited Coastwise---**

LIMITED COASTWISE SERVICE: IN SEAS OF LESS THAN THREE (03) FEET, WIND LESS THAN TWENTY (20) KNOTS AND CLEAR VISIBILITY, NOT MORE THAN TWELVE (12) MILES FROM SHORE BETWEEN ST. MARKS AND CARRABELLE, FLORIDA.

THIS VESSEL HAS BEEN GRANTED A FRESH WATER SERVICE EXAMINATION INTERVAL IN ACCORDANCE WITH 46 CFR 31.10-21 (a) (2). IF THIS VESSEL IS OPERATED IN SALT WATER MORE THAN SIX (6) MONTHS IN ANY TWELVE (12) MONTH PERIOD, THE VESSEL MUST BE INSPECTED USING SALT WATER INTERVALS AND THE COGNIZANT OCMI NOTIFIED IN WRITING AS SOON AS THIS CHANGE IN STATUS OCCURS.

\*\*\*SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION\*\*\*

With this Inspection for Certification having been completed at Houma, LA, UNITED STATES, the Officer in Charge, Marine Inspection, Houma, Louisiana certified the vessel, in all respects, is in conformity with the applicable vessel inspection laws and the rules and regulations prescribed thereunder.

Annual/Periodic/Re-Inspection				This Amended certificate issued by: <b>M. A. GILDAY, CDR, USCG BY DIRECTION</b> Officer in Charge, Marine Inspection Marine Safety Unit Morgan City Inspection Zone
Date	Zone	A/P/R	Signature	
15 FEB 25	SFB	A	[Signature]	
21 Nov 25	Sector Houma	P	[Signature]	



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UNITED STATES						10

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Date	Zone	A/P/R	Signature	
10 SEP 25	SHG	A		



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UNITED STATES			-	-		-0

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Date	Zone	A/P/R	Signature	



# Certificate of Inspection

Vessel Name: CBR 2022

### ---Hull Exams---

Exam Type	Next Exam	Last Exam	Prior Exam
DryDock	30Nov2033	03Nov2023	17Oct2013
Internal Structure	30Nov2028	03Nov2023	13Oct2018

### --- Liquid/Gas/Solid Cargo Authority/Conditions ---

Authorization: FLAMMABLE/COMBUSTIBLE LIQUIDS AND SPECIFIED HAZARDOUS CARGOES

Total Capacity	Units	Highest Grade Type	Part151 Regulated	Part153 Regulated	Part154 Regulated
29300	Barrels	A	Yes	No	No

#### \*Hazardous Bulk Solids Authority\*

Not Authorized

#### \*Loading Constraints - Structural\*

Tank Number	Max Cargo Weight per Tank (short tons)	Maximum Density (lbs/gal)
1 P/S	817	12.5
2 P/S	814	12.5
3 P/S	682	12.5

#### \*Loading Constraints - Stability\*

Hull Type	Maximum Load (short tons)	Maximum Draft (ft/in)	Max Density (lbs/gal)	Route Description
III	4406	11ft 0in	12.5	R, LBS, LC
II	3723	9ft 7in	12.5	R, LBS, LC

#### \*Conditions Of Carriage\*

ONLY THOSE HAZARDOUS CARGOES NAMED IN THE VESSEL'S CARGO AUTHORITY ATTACHMENT, SERIAL NO. C1-1303087 DATED 12 SEP 2013, MAY BE CARRIED AND THEN ONLY IN THE TANKS INDICATED, SUBJECT TO THE LOADING CONSTRAINTS OF THIS DOCUMENT.

PER 46 CFR 150.130, THE PERSON IN CHARGE OF THE VESSEL IS RESPONSIBLE FOR ENSURING THAT THE COMPATIBILITY REQUIREMENTS OF 46 CFR 150 ARE MET. CARGOES MUST BE CHECKED FOR COMPATIBILITY USING THE FIGURES, TABLES, AND APPENDICES OF 46 CFR 150 IN CONJUNCTION WITH THE REACTIVE GROUP NUMBERS FROM THE "COMPAT GROUP NO" COLUMN LISTED IN THE VESSEL'S CAA.

WHEN THE VESSEL IS CARRYING CARGOES CONTAINING GREATER THAN 0.5% BENZENE, THE PERSON IN CHARGE IS RESPONSIBLE FOR ENSURING THE PROVISIONS OF 46 CFR 197, SUBPART C, ARE APPLIED.

#### \*VAPOR CONTROL AUTHORIZATION\*

IN ACCORDANCE WITH 46 CFR 39, EXCLUDING PART 39.4000, THIS VESSEL'S VAPOR COLLECTION SYSTEM (VCS) HAS BEEN INSPECTED TO THE PLANS APPROVED BY MARINE SAFETY CENTER LETTER SERIAL NO. C1-1204161 DATED SEPTEMBER 25, 2012, AND EXTENDED BY MARINE SAFETY CENTER LETTER SERIAL C1-1303087 DATED SEPTEMBER 12, 2013 AND HAS BEEN FOUND ACCEPTABLE FOR THE COLLECTION OF BULK LIQUID CARGO VAPORS ANNOTATED WITH "YES" IN THE VCS COLUMN OF THE VESSEL'S CAA.

IN ACCORDANCE WITH 46 CFR 39.1017 AND 39.5000, THIS VESSEL'S VCS HAS BEEN EVALUATED AND APPROVED FOR MULTI-BREADED TANDEM LOADING WITH OTHER VESSELS SPECIFICALLY APPROVED TO TANDEM LOAD WITH THIS VESSEL.



# Certificate of Inspection

Vessel Name: CBR 2022

PER MSC PLAN REVIEW SHEET (PRIS) SERIAL NO. C1-1303087 DATED SEPTEMBER 12, 2013, THE CARGO TANK MAXIMUM DESIGN WORKING PRESSURE: 3.00 PSIG.

**\*STABILITY AND TRIM\***

PER 46 CFR 151.10-15(c)(2), THE MAXIMUM TANK WEIGHTS LISTED ABOVE REFLECT UNIFORM (WITHIN 5%) LOADING AT THE DEEPEST DRAFT ALLOWED. WHEN CARRYING SUBCHAPTER O CARGOES AT SHALLOWER DRAFTS, THE BARGE SHOULD ALWAYS BE LOADED UNIFORMLY.

THE MAXIMUM DESIGN DENSITY OF CARGO WHICH MAY BE FILLED TO THE TANK TOP IS 8.74 LBS/GAL. CARGOES WITH HIGHER DENSITIES, UP TO 12.5 LBS/GAL, MAY BE CARRIED AS SLACK LOADS, BUT SHALL NOT EXCEED THE TANK WEIGHT LIMITS AS LISTED ABOVE.

**--- Inspection Status ---**

**\*Cargo Tanks\***

Tank Id	Internal Exam			External Exam		
	Previous	Last	Next	Previous	Last	Next
1 P/S	17Oct2013	03Nov2023	30Nov2033	-	-	-
2 P/S	17Oct2013	03Nov2023	30Nov2033	-	-	-
3 P/S	17Oct2013	03Nov2023	30Nov2033	-	-	-

Hydro Test

Tank Id	Safety Valves	Previous	Last	Next
1 P/S	-	-	17Oct2013	-
2 P/S	-	-	17Oct2013	-
3 P/S	-	-	17Oct2013	-

**---Conditional Portable Fire Extinguisher Requirements---**

Required Only During Transfer of Cargo or Operation of Barge Machinery

**--- Fire Fighting Equipment ---**

**\*Fire Extinguishers - Hand portable and semi-portable\***

Quantity	Class Type
2	40-B

**---Certificate Amendments---**

Amending Unit	Amendment Date	Amendment Remark
Marine Safety Unit Morgan City	26Mar2024	CHANGED OPERATOR NAME AND ADDRESS.

\*\*\*END\*\*\*



Department of Homeland Security  
United States Coast Guard

Serial #: C1-1303087  
Dated: 12-Sep-13

# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: CBR 2022  
Official #: 1248783

Shipyard: Conrad Industries  
Hull #: C-1033

### 46 CFR 151 Tank Group Characteristics

Tank Group Information		Cargo Identification			Hull Typ	Cargo Seg Tank	Tanks			Cargo Transfer		Environmental Control		Fire Protection Provided	Special Requirements		Elec Haz	Temp Cont
Tnk Grp	Tanks In Group	Density	Press.	Temp.			Type	Vent	Gauge	Pipe Class	Cont	Tanks	Handling Space		General	Materials of Construction		
A	#1P/S, #2P/S, #3P/S	12.5	Atmos.	Amb.	II	1II, 2II	Integral Gravity	PV	Closed	II	G-1	NR	NA	Portable	.50-5, .50-5(d), .50-60, .50-70(a), .50-70(b), .50-73, .50-81(a)	55-1(b), (c), (e), (f), (h), (i), 56-1(a), (b), (d), (f), (g)	NR	No

- Notes: 1. Under Environmental Control, Tanks, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo tanks.  
 2. Under Environmental Control, Handling Space, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo handling space. NA means that the vessel does not have a cargo control space, and this requirement is not applied.  
 3. Under Electrical Hazard Class, NA means that the tank group is suitable only for those cargoes which have no electrical hazard class requirement. NR means that the vessel has no electrical equipment located in a hazardous location.

### List of Authorized Cargoes

Cargo Identification							Conditions of Carriage					
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat's of	Insp. Period		
							App'd (Y or N)	VCS Category				

#### Authorized Subchapter O Cargoes

Acetonitrile	ATN	37	O	C	III	A	Yes	3	No	G
Acrylonitrile	ACN	15 <sup>2</sup>	O	C	II	A	No	N/A	.50-70(a), .55-1(e)	G
Adiponitrile	ADN	37	O	E	II	A	Yes	1	No	G
Alkyl(C7-C9) nitrates	AKN	34 <sup>2</sup>	O	NA	III	A	No	N/A	.50-81, .50-66	G
Aminoethylethanolamine	AEE	8	O	E	III	A	Yes	1	.55-1(b)	G
Anthracene oil (Coal tar fraction)	AHO	33	O	NA	II	A	No	N/A	No	G
Benzene	BNZ	32	O	C	III	A	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (having 10% Benzene or more)	BHB	32 <sup>2</sup>	O	C	III	A	Yes	1	.50-60	G
Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)	BHA	32 <sup>2</sup>	O	C	III	A	Yes	1	.50-60, 56-1(b), (d), (f), (g)	G
Benzene, Toluene, Xylene mixtures (10% Benzene or more)	BTX	32	O	B/C	III	A	Yes	1	.50-60	G
Butyl acrylate (all isomers)	BAR	14	O	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyl methacrylate	BMH	14	O	D	III	A	Yes	2	.50-70(a), .50-81(a), (b)	G
Butyraldehyde (all isomers)	BAE	19	O	C	III	A	Yes	1	.55-1(h)	G
Camphor oil (light)	CPO	18	O	D	II	A	No	N/A	No	G
Chemical Oil (refined, containing phenolics)	COD	21	O	E	II	A	No	N/A	.50-73	G
Chlorobenzene	CRB	36	O	D	III	A	Yes	1	No	G
Chloroform	CRF	36	O	NA	III	A	Yes	3	No	G
Coal tar naphtha solvent	NCT	33	O	D	III	A	Yes	1	.50-73	G
Creosole	CCW	21 <sup>2</sup>	O	E	III	A	Yes	1	No	G
Cresols (all isomers)	CRS	21	O	E	III	A	Yes	1	No	G
Cresylic spent caustic	CSC	5	O	NA	III	A	No	N/A	.50-73, .55-1(b)	G
Cresylic acid tar	CRX		O	E	III	A	Yes	1	.55-1(f)	G
Crotonaldehyde	CTA	19 <sup>2</sup>	O	C	II	A	No	N/A	.55-1(h)	G
Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein)	CHG		O	C	III	A	No	N/A	No	G
Cyclohexanone	CCH	18	O	D	III	A	Yes	1	.56-1(a), (b)	G
Cyclohexanone, Cyclohexanol mixture	CYX	18 <sup>2</sup>	O	E	III	A	Yes	1	.56-1 (b)	G
Cyclohexadiene, Styrene, Benzene mixture	CSB	30	O	D	III	A	Yes	1	.50-60, 56-1(b)	G
Iso-Decyl acrylate	IAI	14	O	E	III	A	Yes	2	.50-70(a), .50-81(a), (b), .55-1(c)	G
Dichlorobenzene (all isomers)	DBX	36	O	E	III	A	Yes	3	.56-1(a), (b)	G
1,1-Dichloroethane	DCH	36	O	C	III	A	Yes	1	No	G
2,2-Dichloroethyl ether	DEE	41	O	D	II	A	Yes	1	.55-1(f)	G
Dichloromethane	DCM	36	O	NA	III	A	Yes	5	No	G

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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: CBR 2022  
Official #: 1248783

Page 2 of 7

Shipyard: Conrad Industries  
Hull #: C-1033

Cargo Identification							Conditions of Carriage				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat'l's of	Insp. Period	
							App'd (Y or N)	VCS Category			
1,1-Dichloropropane	DPB	36	O	C	III	A	Yes	3	No	G	
1,2-Dichloropropane	DPP	36	O	C	III	A	Yes	3	No	G	
1,3-Dichloropropane	DPC	36	O	C	III	A	Yes	3	No	G	
1,3-Dichloropropene	DPU	15	O	D	II	A	No	N/A	No	G	
Dichloropropene, Dichloropropane mixtures	DMX	15	O	C	II	A	Yes	1	No	G	
Diethanolamine	DEA	8	O	E	III	A	Yes	1	55-1(e)	G	
Diethylamine	DEN	7	O	C	III	A	Yes	3	55-1(e)	G	
Diethylenetriamine	DET	7 <sup>2</sup>	O	E	III	A	Yes	1	55-1(e)	G	
Diisobutylamine	DBU	7	O	D	III	A	Yes	3	55-1(e)	G	
Diisopropanolamine	DIP	8	O	E	III	A	Yes	1	55-1(c)	G	
Diisopropylamine	DIA	7	O	C	II	A	Yes	3	55-1(c)	G	
N,N-Dimethylacetamide	DAC	10	O	E	III	A	Yes	3	55-1(b)	G	
Dimethylformamide	DMF	10	O	D	III	A	Yes	1	55-1(e)	G	
Di-n-propylamine	DNA	7	O	C	II	A	Yes	3	55-1(c)	G	
Dodecyl dimethylamine, Tetradecyl dimethylamine mixture	DOT	7	O	E	III	A	No	N/A	55-1(b)	G	
Dodecyl diphenyl ether disulfonate solution	DOS	43	O	#	II	A	No	N/A	No	G	
EE Glycol Ether Mixture	EEG	40	O	D	III	A	No	N/A	No	G	
Ethanolamine	MEA	8	O	E	III	A	Yes	1	55-1(c)	G	
Ethyl acrylate	EAC	14	O	C	III	A	Yes	2	50-70(a), 50-81(a), (b)	G	
Ethylamine solution (72% or less)	EAN	7	O	A	II	A	No	N/A	55-1(b)	G	
N-Ethylbutylamine	EBA	7	O	D	III	A	Yes	3	55-1(b)	G	
N-Ethylcyclohexylamine	ECC	7	O	D	III	A	Yes	1	55-1(b)	G	
Ethylene cyanohydrin	ETC	20	O	E	III	A	Yes	1	No	G	
Ethylenediamine	EDA	7 <sup>2</sup>	O	D	III	A	Yes	1	55-1(c)	G	
Ethylene dichloride	EDC	36 <sup>2</sup>	O	C	III	A	Yes	1	No	G	
Ethylene glycol hexyl ether	EGH	40	O	E	III	A	No	N/A	No	G	
Ethylene glycol monoalkyl ethers	EGC	40	O	D/E	III	A	Yes	1	No	G	
Ethylene glycol propyl ether	EGP	40	O	E	III	A	Yes	1	No	G	
2-Ethylhexyl acrylate	EAI	14	O	E	III	A	Yes	2	50-70(a), 50-81(a), (b)	G	
Ethyl methacrylate	ETM	14	O	D/E	III	A	Yes	2	50-70(a)	G	
2-Ethyl-3-propylacrolein	EPA	19 <sup>2</sup>	O	E	III	A	Yes	1	No	G	
Formaldehyde solution (37% to 50%)	FMS	19 <sup>2</sup>	O	D/E	III	A	Yes	1	55-1(h)	G	
Furfural	FFA	19	O	D	III	A	Yes	1	55-1(h)	G	
Glutaraldehyde solution (50% or less)	GTA	19	O	NA	III	A	No	N/A	No	G	
Hexamethylenediamine solution	HMC	7	O	E	III	A	Yes	1	55-1(c)	G	
Hydrocarbon 5-9	HFN		O	C	III	A	Yes	1	50-70(a), 50-81(a), (b)	G	
Isoprene	IPR	30	O	A	III	A	No	N/A	50-70(a), 50-81(a), (b)	G	
Isoprene, Pentadiene mixture	IPN		O	B	III	A	No	N/A	50-70(a), 55-1(c)	G	
Mesityl oxide	MSO	18 <sup>2</sup>	O	D	III	A	Yes	1	No	G	
Methyl acrylate	MAM	14	O	C	III	A	Yes	2	50-70(a), 50-81(a), (b)	G	
Methylcyclopentadiene dimer	MCK	30	O	C	III	A	Yes	1	No	G	
2-Methyl-5-ethylpyridine	MEP	9	O	E	III	A	Yes	1	55-1(e)	G	
Methyl methacrylate	MMM	14	O	C	III	A	Yes	2	50-70(a), 50-81(a), (b)	G	
2-Methylpyridine	MPR	9	O	D	III	A	Yes	3	55-1(c)	G	
alpha-Methylstyrene	MSR	30	O	D	III	A	Yes	2	50-70(a), 50-81(a), (b)	G	
Morpholine	MPL	7 <sup>2</sup>	O	D	III	A	Yes	1	55-1(c)	G	
Nitroethane	NTE	42	O	D	II	A	No	N/A	50-81, 55-1(b)	G	
1- or 2-Nitropropane	NPM	42	O	D	III	A	Yes	1	50-81	G	

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							App'd (Y or N)	VCS Category			
1,3-Pentadlene	PDE	30	O	A	III	A	No	N/A	50-70(a), 50-81	G	
Polyethylene polyamines	PEB	7 <sup>2</sup>	O	E	III	A	Yes	1	55-1(e)	G	
Iso-Propanolamine	MPA	8	O	E	III	A	Yes	1	55-1(e)	G	
Iso-Propylamine	IPP	7	O	A	II	A	Yes	5	55-1(c)	G	
Pyridine	PRD	9	O	C	III	A	Yes	1	55-1(e)	G	
Sodium chlorate solution (50% or less)	SDD	0 <sup>1,2</sup>	O	NA	III	A	No	N/A	50-73	G	
Sodium hypochlorite solution (20% or less)	SHQ	5	O	NA	III	A	No	N/A	50-73, 56-1(a), (b)	G	
Sodium sulfide, hydrosulfide solution (H2S 15 ppm or less)	SSH	0 <sup>1,2</sup>	O	NA	III	A	Yes	1	50-73, 55-1(b)	G	
Sodium sulfide, hydrosulfide solution (H2S greater than 15 ppm but less than 200 ppm)	SSI	0 <sup>1,2</sup>	O	NA	III	A	No	N/A	50-73, 55-1(b)	G	
Sodium sulfide, hydrosulfide solution (H2S greater than 200 ppm)	SSJ	0 <sup>1,2</sup>	O	NA	II	A	No	N/A	50-73, 55-1(b)	G	
Styrene (crude)	STX		O	D	III	A	Yes	2	No	G	
Styrene monomer	STY	30	O	D	III	A	Yes	2	50-70(a), 50-81(a), (b)	G	
Tetraethylenepentamine	TTP	7	O	E	III	A	Yes	1	55-1(c)	G	
Tetrahydrofuran	THE	41	O	C	III	A	Yes	1	50-70(b)	G	
o-Toluidine	TLI	9	O	E	II	A	Yes	3	50-5, 50-73	G	
1,2,4-Trichlorobenzene	TCB	36	O	E	III	A	Yes	1	No	G	
1,1,2-Trichloroethane	TCM	36	O	NA	III	A	Yes	1	50-73, 56-1(a)	G	
Trichloroethylene	TCL	36 <sup>2</sup>	O	NA	III	A	Yes	1	No	G	
1,2,3-Trichloropropane	TCN	36	O	E	II	A	Yes	3	50-73, 56-1(a)	G	
Triethanolamine	TEA	8 <sup>2</sup>	O	E	III	A	Yes	1	55-1(b)	G	
Triethylamine	TEN	7	O	C	II	A	Yes	3	55-1(e)	G	
Triethylenetetramine	TET	7 <sup>2</sup>	O	E	III	A	Yes	1	55-1(b)	G	
Urea, Ammonium nitrate solution (containing more than 2% NH3)	UAS	6	O	NA	III	A	No	N/A	56-1(b)	G	
Vinyl acetate	VAM	13	O	C	III	A	Yes	2	50-70(a), 50-81(a), (b)	G	
Vinyl neodecanate	VND	13	O	E	III	A	No	N/A	50-70(a), 50-81(a), (b)	G	

### Subchapter D Cargoes Authorized for Vapor Control

Acetone	ACT	18 <sup>2</sup>	D	C		A	Yes	1	
Acetophenone	ACP	18	D	E		A	Yes	1	
Alcohol(C12-C16) poly(1-6)ethoxylates	APU	20	D	E		A	Yes	1	
Alcohol(C8-C17)(secondary) poly(7-12)ethoxylates	AEB	20	D	E		A	Yes	1	
Amyl acetate (all isomers)	AEC	34	D	D		A	Yes	1	
Amyl alcohol (iso-, n-, sec-, primary)	AAI	20	D	D		A	Yes	1	
Benzyl alcohol	BAL	21	D	E		A	Yes	1	
Brake fluid base mixtures (containing Poly(2-8)alkylene(C2-C3) glycols, Polyalkylene(C2-C10) glycol monoalkyl(C1-C4) ethers, and their borate esters)	BFX	20	D	E		A	Yes	1	
Butyl acetate (all isomers)	BAX	34	D	D		A	Yes	1	
Butyl alcohol (iso-)	IAL	20 <sup>2</sup>	D	D		A	Yes	1	
Butyl alcohol (n-)	BAN	20 <sup>2</sup>	D	D		A	Yes	1	
Butyl alcohol (sec-)	BAS	20 <sup>2</sup>	D	C		A	Yes	1	
Butyl alcohol (tert-)	BAT		D	C		A	Yes	1	
Butyl benzyl phthalate	BPH	34	D	E		A	Yes	1	
Butyl toluene	BUE	32	D	D		A	Yes	1	
Caprolactam solutions	CLS	22	D	E		A	Yes	1	
Cyclohexane	CHX	31	D	C		A	Yes	1	
Cyclohexanol	CHN	20	D	E		A	Yes	1	
1,3-Cyclopentadiene dimer (molten)	CPD	30	D	D/E		A	Yes	2	

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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: GBR 2022

Official #: 1248783

Page 4 of 7

Shipyard: Conrad Industries

Hull #: C-1033

Cargo Identification							Conditions of Carriage				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery App'd (Y or N)	VCS Category	Special Requirements in 46 CFR 151 General and Mat'ls of	Insp. Period	
p-Cymene	CMP	32	D	D		A	Yes	1			
Iso-Decaldehyde	IDA	19	D	E		A	Yes	1			
n-Decaldehyde	DAL	19	D	E		A	Yes	1			
Decene	DCE	30	D	D		A	Yes	1			
Decyl alcohol (all isomers)	DAX	20 <sup>2</sup>	D	E		A	Yes	1			
n-Decylbenzene, see Alkyl(C9+)benzenes	DBZ	32	D	E		A	Yes	1			
Diacetone alcohol	DAA	20 <sup>2</sup>	D	D		A	Yes	1			
ortho-Dibutyl phthalate	DPA	34	D	E		A	Yes	1			
Diethylbenzene	DEB	32	D	D		A	Yes	1			
Diethylene glycol	DEG	40 <sup>2</sup>	D	E		A	Yes	1			
Diisobutylene	DBL	30	D	C		A	Yes	1			
Diisobutyl ketone	DIK	18	D	D		A	Yes	1			
Diisopropylbenzene (all isomers)	DIX	32	D	E		A	Yes	1			
Dimethyl phthalate	DTL	34	D	E		A	Yes	1			
Diethyl phthalate	DOP	34	D	E		A	Yes	1			
Dipentene	DPN	30	D	D		A	Yes	1			
Diphenyl	DIL	32	D	D/E		A	Yes	1			
Diphenyl, Diphenyl ether mixtures	DDO	33	D	E		A	Yes	1			
Diphenyl ether	DPE	41	D	(E)		A	Yes	1			
Dipropylene glycol	DPG	40	D	E		A	Yes	1			
Distillates: Flashed feed stocks	DFF	33	D	E		A	Yes	1			
Distillates: Straight run	DSR	33	D	E		A	Yes	1			
Dodecene (all isomers)	DOZ	30	D	D		A	Yes	1			
Dodecylbenzene, see Alkyl(C9+)benzenes	DDB	32	D	E		A	Yes	1			
2-Ethoxyethyl acetate	EEA	34	D	D		A	Yes	1			
Ethoxy triglycol (crude)	ETG	40	D	E		A	Yes	1			
Ethyl acetate	ETA	34	D	C		A	Yes	1			
Ethyl acetoacetate	EAA	34	D	E		A	Yes	1			
Ethyl alcohol	EAL	20 <sup>2</sup>	D	C		A	Yes	1			
Ethylbenzene	ETB	32	D	C		A	Yes	1			
Ethyl butanol	EBT	20	D	D		A	Yes	1			
Ethyl tert-butyl ether	EBE	41	D	C		A	Yes	1			
Ethyl butyrate	EBR	34	D	D		A	Yes	1			
Ethyl cyclohexane	ECY	31	D	D		A	Yes	1			
Ethylene glycol	EGL	20 <sup>2</sup>	D	E		A	Yes	1			
Ethylene glycol butyl ether acetate	EMA	34	D	E		A	Yes	1			
Ethylene glycol diacetate	EGY	34	D	E		A	Yes	1			
Ethylene glycol phenyl ether	EPE	40	D	E		A	Yes	1			
Ethyl-3-ethoxypropionate	EEP	34	D	D		A	Yes	1			
2-Ethylhexanol	EHX	20	D	E		A	Yes	1			
Ethyl propionate	EPR	34	D	C		A	Yes	1			
Ethyl toluene	ETE	32	D	D		A	Yes	1			
Formamide	FAM	10	D	E		A	Yes	1			
Furfuryl alcohol	FAL	20 <sup>2</sup>	D	E		A	Yes	1			
Gasoline blending stocks: Alkylates	GAK	33	D	A/C		A	Yes	1			
Gasoline blending stocks: Reformates	GRF	33	D	A/C		A	Yes	1			
Gasolines: Automotive (containing not over 4.23 grams lead per gallon)	GAT	33	D	C		A	Yes	1			

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Department of Homeland Security  
United States Coast Guard

Serial #: C1-1303087  
Dated: 12-Sep-13

# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: CBR 2022  
Official #: 1248783

Page 5 of 7

Shipyard: Conrad Industries  
Hull #: C-1033

Cargo Identification						Conditions of Carriage				
Name	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mats of	Insp. Period
							App'd (Y or N)	VCS Category		
Gasolines: Aviation (containing not over 4.86 grams of lead per gallon)	GAV	33	D	C		A	Yes	1		
Gasolines: Casinghead (natural)	GCS	33	D	A/C		A	Yes	1		
Gasolines: Polymer	GPL	33	D	A/C		A	Yes	1		
Gasolines: Straight run	GSR	33	D	A/C		A	Yes	1		
Glycerine	GCR	20 <sup>2</sup>	D	E		A	Yes	1		
Heptane (all isomers), see Alkanes (C6-C9) (all isomers)	HMX	31	D	C		A	Yes	1		
Heptanoic acid	HEP	4	D	E		A	Yes	1		
Heptanol (all isomers)	HTX	20	D	D/E		A	Yes	1		
Heptene (all isomers)	HPX	30	D	C		A	Yes	2		
Heptyl acetate	HPE	34	D	E		A	Yes	1		
Hexane (all isomers), see Alkanes (C6-C9)	HXS	31 <sup>2</sup>	D	B/C		A	Yes	1		
Hexanoic acid	HXO	4	D	E		A	Yes	1		
Hexanol	HXN	20	D	D		A	Yes	1		
Hexene (all isomers)	HEX	30	D	C		A	Yes	2		
Hexylene glycol	HXG	20	D	E		A	Yes	1		
Isophorone	IPH	18 <sup>2</sup>	D	E		A	Yes	1		
Jet fuel: JP-4	JPF	33	D	E		A	Yes	1		
Jet fuel: JP-5 (kerosene, heavy)	JPV	33	D	D		A	Yes	1		
Kerosene	KRS	33	D	D		A	Yes	1		
Methyl acetate	MTT	34	D	D		A	Yes	1		
Methyl alcohol	MAL	20 <sup>2</sup>	D	C		A	Yes	1		
Methylamyl acetate	MAC	34	D	D		A	Yes	1		
Methylamyl alcohol	MAA	20	D	D		A	Yes	1		
Methyl amyl ketone	MAK	18	D	D		A	Yes	1		
Methyl tert-butyl ether	MBE	41 <sup>2</sup>	D	C		A	Yes	1		
Methyl butyl ketone	MBK	18	D	C		A	Yes	1		
Methyl butyrate	MBU	34	D	C		A	Yes	1		
Methyl ethyl ketone	MEK	18 <sup>2</sup>	D	C		A	Yes	1		
Methyl heptyl ketone	MHK	18	D	D		A	Yes	1		
Methyl isobutyl ketone	MIK	18 <sup>2</sup>	D	C		A	Yes	1		
Methyl naphthalene (mollen)	MNA	32	D	E		A	Yes	1		
Mineral spirits	MNS	33	D	D		A	Yes	1		
Myrcene	MRE	30	D	D		A	Yes	1		
Naphtha: Heavy	NAG	33	D	#		A	Yes	1		
Naphtha: Petroleum	PTN	33	D	#		A	Yes	1		
Naphtha: Solvent	NSV	33	D	D		A	Yes	1		
Naphtha: Standard solvent	NSS	33	D	D		A	Yes	1		
Naphtha: Varnish makers and painters (75%)	NVM	33	D	C		A	Yes	1		
Nonane (all isomers), see Alkanes (C6-C9)	NAX	31	D	D		A	Yes	1		
Nonene (all isomers)	NON	30	D	D		A	Yes	2		
Nonyl alcohol (all isomers)	NNS	20 <sup>2</sup>	D	E		A	Yes	1		
Nonyl phenol	NNP	21	D	E		A	Yes	1		
Nonyl phenol poly(4+)ethoxylates	NPE	40	D	E		A	Yes	1		
Octane (all isomers), see Alkanes (C6-C9)	OAX	31	D	C		A	Yes	1		
Octanoic acid (all isomers)	OAY	4	D	E		A	Yes	1		
Octanol (all isomers)	OCX	20 <sup>2</sup>	D	E		A	Yes	1		
Octene (all isomers)	OTX	30	D	C		A	Yes	2		

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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: CBR 2022

Official #: 1248783

Page 6 of 7

Shipyard: Conrad Industries

Hull #: C-1033

Name	Cargo Identification						Conditions of Carriage				
	Chem Code	Compat Group No	Sub Chapter	Grade	Hull Type	Tank Group	Vapor Recovery		Special Requirements in 46 CFR 151 General and Mat's of	Insp. Period	
							App'd (Y or N)	VCS Category			
Oil, fuel: No. 2	OTW	33	D	D/E		A	Yes	1			
Oil, fuel: No. 2-D	OTD	33	D	D		A	Yes	1			
Oil, fuel: No. 4	OFR	33	D	D/E		A	Yes	1			
Oil, fuel: No. 5	OFV	33	D	D/E		A	Yes	1			
Oil, fuel: No. 6	OSX	33	D	E		A	Yes	1			
Oil, misc: Crude	OIL	33	D	C/D		A	Yes	1			
Oil, misc: Diesel	ODS	33	D	D/E		A	Yes	1			
Oil, misc: Gas, high pour	OGP	33	D	E		A	Yes	1			
Oil, misc: Lubricating	OLB	33	D	E		A	Yes	1			
Oil, misc: Residual	ORL	33	D	E		A	Yes	1			
Oil, misc: Turbine	OTB	33	D	E		A	Yes	1			
Pentlene (all isomers)	PTX	30	D	A		A	Yes	5			
n-Pentyl proplonate	PPE	34	D	D		A	Yes	1			
alpha-Pinene	PIO	30	D	D		A	Yes	1			
beta-Pinene	PIP	30	D	D		A	Yes	1			
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	PAG	40	D	E		A	Yes	1			
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	PAF	34	D	E		A	Yes	1			
Polybutene	PLB	30	D	E		A	Yes	1			
Polypropylene glycol	PGC	40	D	E		A	Yes	1			
iso-Propyl acetate	IAC	34	D	C		A	Yes	1			
n-Propyl acetate	PAT	34	D	C		A	Yes	1			
iso-Propyl alcohol	IPA	20 <sup>2</sup>	D	C		A	Yes	1			
n-Propyl alcohol	PAL	20 <sup>2</sup>	D	C		A	Yes	1			
Propylbenzene (all isomers)	PBY	32	D	D		A	Yes	1			
iso-Propylcyclohexane	IPX	31	D	D		A	Yes	1			
Propylene glycol	PPG	20 <sup>2</sup>	D	E		A	Yes	1			
Propylene glycol methyl ether acetate	PGN	34	D	D		A	Yes	1			
Propylene tetramer	PTT	30	D	D		A	Yes	1			
Sulfolane	SFL	39	D	E		A	Yes	1			
Tetraethylene glycol	TTG	40	D	E		A	Yes	1			
Tetrahydronaphthalene	THN	32	D	E		A	Yes	1			
Toluene	TOL	32	D	C		A	Yes	1			
Tricresyl phosphate (less than 1% of the ortho isomer)	TCP	34	D	E		A	Yes	1			
Triethylbenzene	TEB	32	D	E		A	Yes	1			
Triethylene glycol	TEG	40	D	E		A	Yes	1			
Triethyl phosphate	TPS	34	D	E		A	Yes	1			
Trimethylbenzene (all isomers)	TRE	32	D	{D}		A	Yes	1			
Trixylenyl phosphate	TRP	34	D	E		A	Yes	1			
Undecene	UDC	30	D	D/E		A	Yes	1			
1-Undecyl alcohol	UND	20	D	E		A	Yes	1			
Xylenes (ortho-, meta-, para-)	XLX	32	D	D		A	Yes	1			

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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: CBR 2022  
Official #: 1248783

Page 7 of 7

Shipyard: Conrad Industr  
Hull #: C-1033

### Explanation of terms & symbols used in the Table:

#### Cargo Identification

Name	The proper shipping name as listed in 46 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2.
Chem Code none	The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual. Certain mixtures of cargoes may not have a CHRIS Code assigned.
Compatibility Group No.	The cargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 46 CFR 150.130, the Person-in-Charge of the barge is responsible for ensuring that the compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the assigned reactive group number.
Note 1	Because of the very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (CG-3PSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001; Telephone (202) 372-1425.
Note 2	See Appendix I to 46 CFR Part 150 - exceptions to the compatibility chart.
Subchapter Subchapter D Subchapter O Note 3	The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified. Those flammable and combustible liquids listed in 46 CFR Table 30.25-1. Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2. Those cargoes listed in 46 CFR Part 153 Table 2 are non-regulated cargoes when carried in bulk on non-ocean-going barges.
Grade	The cargo classification assigned to each flammable or combustible liquid. Grades inside of "( )" indicate a provisional assignment based upon literature sources which were not verified by manufacturers data. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.
A, B, C	Flammable liquid cargoes, as defined in 46 CFR 30-10.22.
D, E	Combustible liquid cargoes, as defined in 46 CFR 30-10.15.
Note 4	The flammability/combustibility grade of these cargoes may vary depending upon the flashpoint and Reid vapor pressure. The Person-in-Charge shall verify the cargo grade based on Manufacturers data and ensure that the barge is authorized for carriage of that grade of cargo.
NA	Those subchapter O cargoes which are not classified as a flammable or combustible liquid.
#	No flammability/combustibility grade has been assigned yet, as the necessary flash point/vapor pressure data for such assignments are presently not available.
Hull Type	The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1.
I	Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of the cargo. See 46 CFR 151.10-1(b)(1).
II	Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3).
III	Designed to carry products of sufficient hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4).
NA	Not applicable to barges certificated under Subchapter D.

#### Conditions of Carriage

Tank Group	The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo.
Vapor Recovery Approved (Y or N)	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.

#### Conditions of Carriage

Tank Group	The vessel's tank group (as defined under the "46 CFR Tank Group Characteristics" listed on page 1) which is authorized for carriage of the named cargo.
Vapor Recovery Approved (Y or N)	Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo. No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.

#### VCS Category:

Category 1	The specified cargo's provisional classification for vapor control systems. (No additional VCS requirements above those for benzene, gasolines and crude oil) All requirements applying to the handling of oil and hazardous materials in Titles 33 and 46 Code of Federal Regulations (CFR) apply to these cargoes. Those specifically dealing with vapor control systems are in 33 CFR 155.750, 33 CFR 156.120, 33 CFR 156.170, 46 CFR 35.35 and 46 CFR 39. The cargo tank venting system calculations (46 CFR 39.20-1.1) and the pressure drop calculations (46 CFR 39.30-1(b)) must use appropriate friction factors, vapor densities and vapor growth rates.
Category 2	(Polymerizes) Polymerization and residue build-up of these cargoes can adversely affect the vessel by fouling safety components and restricting vapor flow which could lead to cargo tank overpressurization. The vessel's owner must develop a method of ensuring all VCS safety components are functional and polymer build-up is not causing an unsafe condition due to increased pressure in the vapor control piping and cargo tanks. The method shall be acceptable to the local Officer in Charge, Marine Inspection. This is in addition to the requirements of Category 1. Please note that a material not normally considered a monomer can be a problem in detonation.
Category 3	(Highly toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39.20-9. This requirement is in addition to the requirements of Category 1.
Category 4	(Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.
Category 5	(High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1 cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.
Category 6	(High vapor pressure and highly toxic) Must comply with requirements of Categories 1, 3 and 5.
Category 7	(High vapor pressure and polymerizes) Must comply with requirements of Categories 1, 2 and 5.
none	The cargo has not been evaluated/classified for use in vapor control systems.



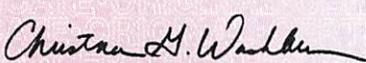
# UNITED STATES OF AMERICA

DEPARTMENT OF HOMELAND SECURITY  
UNITED STATES COAST GUARD



NATIONAL VESSEL DOCUMENTATION CENTER

## CERTIFICATE OF DOCUMENTATION

VESSEL NAME CBR 2022		OFFICIAL NUMBER 1248783	IMO OR OTHER NUMBER C-1033	YEAR COMPLETED 2013	
HAILING PORT MORGAN CITY LA		HULL MATERIAL STEEL		MECHANICAL PROPULSION NO	
GROSS TONNAGE 1619 GRT	NET TONNAGE 1619 NRT	LENGTH 297.5	BREADTH 54.0	DEPTH 12.0	
PLACE BUILT MORGAN CITY LA					
OWNERS BERWICK BAY TRANSPORTATION CO INC			OPERATIONAL ENDORSEMENTS REGISTRY COASTWISE		
MANAGING OWNER BERWICK BAY TRANSPORTATION CO INC 1640 RIVER ROAD (BERWICK) PO BOX 2545 MORGAN CITY LA 70381					
RESTRICTIONS NONE					
ENTITLEMENTS NONE					
REMARKS None					
ISSUE DATE AUGUST 06, 2025		 DIRECTOR, NATIONAL VESSEL DOCUMENTATION CENTER			
THIS CERTIFICATE EXPIRES SEPTEMBER 30, 2026					



U.S. Department of  
Homeland Security

United States  
Coast Guard



Commandant  
United States Coast Guard

Stop 7516  
2703 Martin Luther King Jr. Ave SE  
Washington, DC 20593-7516  
CG-MER-1 (VRP)  
202-372-1005  
202-372-8376  
vp@uscg.mil

16450  
April 13, 2023

CENTRAL BOAT RENTALS, INC.  
C/O: AB MARINE CONSULTING, LLC  
ATTN: ANTHONY BUANCORE  
14615 COTTAGE OAK AVE.  
BATON ROUGE, LA 70810

CBR 2022 (1248783):

Your Vessel Response Plan (Control Number 20080) submitted to meet the requirements of Title 33, Code of Federal Regulations (CFR), Part 155, Subparts D and I, is **approved**. Approval will remain valid until **June 28, 2028**.

The CBR 2022 is authorized to operate only in the ports or geographic areas indicated in the Captain of the Port zones listed below. If carrying oil as cargo, the vessel is prohibited from handling, storing, transporting, transferring, or lightering oil unless it is operating in full compliance with this plan. Compliance includes ensuring that required resources have been identified and planned for or are in place and available through contract or other approved means. If applicable to your routes, this includes the dispersant and aerial observation requirements of 33 CFR 155.1050.

You are reminded that your chosen salvage and marine firefighting resource provider may have submitted waivers from meeting one or more of the specified response times in accordance with 33 CFR 155.4055. If so, this may be rescinded by the U.S. Coast Guard if the appropriate response resources are not available when the approved waiver expires. You shall continue to assess the adequacy of your chosen salvors and firefighters as required by 33 CFR 155.4050.

The vessel must keep a copy of this approval letter onboard in addition to the minimum sections of the plan as required by 33 CFR 155.1030. In accordance with 33 CFR 155.1070, you are required to review your plan annually and submit plan amendments for approval. As per 33 CFR 155.1070(b), the entire plan must be resubmitted for a comprehensive review and approval no later than six (6) months prior to the expiration date.

**APPROVED CAPTAIN OF THE PORT ZONES**

CORPUS CHRISTI	KEY WEST	NEW ORLEANS	PORT ARTHUR AND LAKE CHARLES
HOUMA	LOWER MISSISSIPPI RIVER (MEMPHIS)	OHIO VALLEY	ST. PETERSBURG
HOUSTON-GALVESTON	MIAMI	PITTSBURGH	UPPER MISSISSIPPI RIVER (ST. LOUIS)
JACKSONVILLE	MOBILE		

Sincerely,

R. RIVERA  
Commander  
Chief, Industry Preparedness and Incident Coordination Division  
U.S. Coast Guard  
By direction

U.S. Department of  
Homeland Security

United States  
Coast Guard



Commanding Officer  
United States Coast Guard  
Marine Safety Center

2100 2nd Street, S.W. Stop 7102  
Washington, DC 20593-7102  
Staff Symbol: MSC-3  
Phone: (202) 475-3403  
Fax: (202) 475-3920  
Email: msc@uscg.mil

16710/P018437  
Serial: C1-1303087  
September 12, 2013

Conrad Industries, Inc  
Attn: Mr. Richard Soudelier  
P.O. Box 790  
Morgan City, LA 70381  
Email: RLSoudelier@conradindustries.com

Subj: CBR 2021, O.N. 1248194, Conrad Shipyard Hull No. C-1032  
CBR 2022, O.N. 1248783, Conrad Shipyard Hull No. C-1033  
HSM 1001, O.N. 1249240, Conrad Shipyard Hull No. C-1035  
HSM 1002, O.N. 1249241, Conrad Shipyard Hull No. C-1036  
CBC 388, O.N. 1248751, Conrad Shipyard Hull No. C-1040  
CBC 389, O.N. 1248047, Conrad Shipyard Hull No. C-1041  
NEW CONSTRUCTION, CG1249506, Conrad Shipyard Hull No. C-1042  
NEW CONSTRUCTION, CG1249510, Conrad Shipyard Hull No. C-1044  
297'-6" x 54' x 12' Unmanned Double Hull Type II/III Tank Barges (D/O)  
Grade A (max. 25 psia Reid) and Lower Grades Flammable or Combustible Liquids  
Identified in 46 CFR Table 30.25-1 or 46 CFR 153 Table 2, and Specified Hazardous  
Cargoes  
Rivers; Lakes, Bays, and Sounds; Limited Coastwise on unmanned fair weather voyages  
only, not more than 12 miles offshore between St. Marks and Carrabelle, Florida  
Plan Approval Extension: Vapor Collection System and List of Authorized Cargoes

Dear Mr. Soudelier:

We have reviewed the information submitted with your e-mail dated August 22, 2013 (MSC Document No. 1315809), wherein you have requested that plans previously approved under project P014938 Conrad Shipyard Hulls C-994 through C-997, be used for the construction of the subject vessels. While we have no objection to you using the plans that were previously approved plans, please be advised that the cognizant Officer in Charge, Marine Inspection (OCMI) has the final authority for these issues.

Enclosure (1) includes details regarding MSC approval letters for previously approved plans you wish to use for the construction of the subject vessels. By copy of this letter, we recommend the OCMI extend approval of all drawings and calculations addressed in enclosure (1) to the subject vessels. This extension of plan approval is based on our understanding that:

- a. The subject vessel will be built to the same plans as those specified in enclosure (1),
- b. The regulations used for the original plan approval have not changed since the original plan approval,

16710/P018437  
Serial: C1-1303087  
September 12, 2013

Subj: Conrad Shipyard Hulls C-1032, C-1033, C-1035, C-1036, C-1040, C-1041, C-1042, and C-1044

Plan Approval Extension: Vapor Collection System and List of Authorized Cargoes

- c. The owner of the original plans specifically authorizes the use of the plans for new construction,
- d. There are no modifications to subject vessel or any of the installed systems which would require additional review, and
- e. All comments provided in the original approval letters, accompanying the approved plans, still apply.

You must provide the OCMI a copy of each item listed in enclosure (1) with its corresponding MSC approval letter. Plans that do not conform to any part of (a) through (e) above shall be submitted to our office for approval. The installation, workmanship, and testing shall be to the satisfaction of the OCMI. Any vessel system, arrangement, structure, or other item that requires plan approval but is not covered by an extension must be either submitted to the MSC for review or reviewed by the OCMI.

The Vapor Control System (VCS) PRIS for the subject vessels is included as enclosure (2). In addition, we have updated each vessel's cargo and vapor control authority. The 46 CFR 151 Cargo List and VCS List of Cargoes are included as enclosures (3) and (4).

At the time of this review, some of the vessels' official numbers were not available. Once you provide the vessel names and official numbers to this office, the updated Cargo Authority Attachments (CAAs), containing the cargoes found in enclosure (3) and vapor control authority for the cargoes found in enclosure (4), will be made available for issuance by the OCMI.

Please note that only the local OCMI can issue a vessel's CAA as part of the Certificate of Inspection (COI). The OCMI will verify the carriage authority and vapor control tank group characteristics we used as a basis for creating enclosures (3) and (4) are consistent with the vessel's actual design. For the OCMI's convenience, we have included the following recommended COI endorsement:

Only those hazardous cargoes named in the vessel's Cargo Authority Attachment, Serial No. C1-1303087 dated September 12, 2013, may be carried and then only in the tanks indicated.

When the vessel is carrying cargoes containing greater than 0.5% benzene, the person in charge is responsible for ensuring the provisions of 46 US Code of Federal Regulations Part 197, Subpart C are applied.

In accordance with 46 CFR Part 39, excluding part 39.40, this vessel's vapor control system has been inspected to the plans approved by Marine Safety Center letters Serial No. C1-1204161 dated September 25, 2013 and extended by C1-

16710/P018437  
Serial: C1-1303087  
September 12, 2013

Subj: Conrad Shipyard Hulls C-1032, C-1033, C-1035, C-1036, C-1040, C-1041, C-1042, and C-1044

Plan Approval Extension: Vapor Collection System and List of Authorized Cargoes

1303087 dated September 12, 2013 and found acceptable for collection of bulk liquid cargo vapors annotated with "Yes" in the CAA's VCS column.

Our Project Number for these vessels is **P018437**. Please ensure that future correspondence includes the Project Number, and either the Coast Guard (CG) number that appears in the subject line or the Official Number of each barge once assigned. To avoid confusion, the owners are encouraged to provide the National Vessel Documentation Center with the vessel CG numbers when applying for documentation.

If you have any questions concerning our review, please contact Lieutenant Rachel Beckmann at the number listed above.

Sincerely,



M. J. SEXTON  
Lieutenant, U. S. Coast Guard  
Assistant Chief, Tank Vessel and Offshore Division  
By direction

- Encl: (1) Plan Approval Extension Form, dated August 21, 2013  
(2) VCS PRIS, Conrad Shipyard Hulls C-1032, C-1033, C-1035, C-1036, C-1040, C-1041, C-1042, and C-1044, dated September 12, 2013  
(3) 46 CFR Part 151 Cargo List, Conrad Shipyard Hulls C-1032, C-1033, C-1035, C-1036, C-1040, C-1041, C-1042, and C-1044, dated September 12, 2013  
(4) VCS List of Cargoes, Conrad Shipyard Hulls C-1032, C-1033, C-1035, C-1036, C-1040, C-1041, C-1042, and C-1044, dated September 12, 2013

Copy: Commander, Coast Guard Sector Marine Safety Unit, Morgan City

U.S. Department of  
Homeland Security

United States  
Coast Guard



Commanding Officer  
United States Coast Guard  
Marine Safety Center

US Coast Guard Stop 7410  
4200 Wilson Blvd., Ste 400  
Arlington, VA 20598-7410  
Staff Symbol: MSC-3  
Phone: (703) 872-6731  
Email: msc@uscg.mil

16710/P019704/jmw  
Serial: C1-1503434  
August 7, 2015

Guarino and Cox, LLC  
Attn: Mr. Ryan Ingerick  
19399 Helenbirg Rd, Suite 203  
Covington, LA 70433  
Email: r.ingerick@gaurino-cox.com

Subj: CBR 2011, O.N. 1236628, Conrad Orange Shipyard Hull No. H-438  
CBR 2012, O.N. 1237591, Conrad Hull No. C-970  
CBR 2013, O.N. 1237669, Conrad Hull No. C-975  
CBR 2014, O.N. 1237668, Conrad Hull No. C-976  
CBR 2015, O.N. 1240420, Conrad Hull No. C-987  
CBR 2016, O.N. 1240419, Conrad Hull No. C-988  
CBR 2017, O.N. 1240560, Conrad Hull No. C-990  
CBR 2018, O.N. 1240559, Conrad Hull No. C-989  
CBR 2021, O.N. 1248194, Conrad Hull No. C-1032  
CBR 2022, O.N. 1248783, Conrad Hull No. C-1033  
CBR 2023, O.N. 1250545, Conrad Hull No. C-1053  
CBR 2024, O.N. 1250579, Conrad Hull No. C-1054.  
297' 6" x 54' x 12' Unmanned Tank Barges (D/O)  
Grade A (max. 25 psia Reid) and Lower Flammable or Combustible Liquids Identified in  
46 CFR Table 30.25-1 or 46 CFR Part 153 Table 2, and Specified Hazardous Cargoes  
Rivers; Lakes, Bays, and Sounds; Limited Coastwise on unmanned fair weather voyages  
only, not more than 12 miles offshore between St. Marks and Carrabelle, Florida  
Multi-breasted Tandem Loading

Ref: (a) Guarino & Cox, LLC, Dwg No. C-32T, Rev. 0, "Vapor Control System Calculations  
for Tandem Loading," dated June 29, 2015  
(b) Our letter Serial No. C1-1103116 dated September 29, 2011  
(c) Our letter Serial No. C1-1200006 dated January 23, 2012  
(d) Our letter Serial No. C1-1201224 dated March 6, 2012  
(e) Our letter Serial No. C1-1303087 dated September 12, 2013  
(f) Our letter Serial No. C1-1304280 dated December 30, 2013  
(g) Marine Safety Information Bulletin 11-14 dated July 18, 2014

Dear Mr. Ingerick:

In response to your email dated July 7, 2015, we have reviewed the pressure drop calculations  
for multi-breasted tandem loading on the subject vessels. Reference (a) is "Examined."

Subj: Central Boat Rental Barges  
Multi-Breasted Tandem Loading

16710/P019704/jmw  
Serial: C1-1503434  
August 7, 2015

These barges have vapor control systems previously approved by references (b) through (f), and are acceptable for dual loading operations. Based on the calculations in reference (a), tandem loading is limited to simultaneous collection of those cargoes listed in the vessels' CAA at a maximum transfer rate of **5,000 bbl/hr** per barge.

For the OCMI's convenience, we have included the following additional recommended COI endorsement:

In accordance with 46 CFR Part 39.1017 and 39.5000(e) this vessel's VCS has been evaluated and approved for multi-breasted tandem loading with other vessels specifically approved to tandem load with this vessel.

Please note that in accordance with the procedural changes outlined in reference (g), tandem loading no longer requires final approval by Commandant (CG-ENG-5), but may be approved by the local Officer in Charge, Marine Inspection (OCMI) and may be subject to additional operational requirements.

As a condition of your participation in MSC's electronic commerce program, you must provide a copy of this letter to the cognizant OCMI.

Please contact LT Jack Walsh at (703) 872-6775 with questions concerning our review.

Sincerely,



R. W. MOWBRAY  
Lieutenant, U. S. Coast Guard  
Chief, Vessel and Cargo Branch  
By direction

Copy: Commander, Coast Guard Sector Houston-Galveston, Prevention Department  
Commander, Marine Safety Unit Lake Charles,  
Commander, Marine Safety Unit Morgan City  
Commanding Officer, Marine Safety Unit Vicksburg



# National Pollution Funds Center

- Vessel COFR Search
- E-COFR
- Online Enrollment
- Contact Us
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- Frequently Asked Questions
- Disclaimer
- Forms/Regulations
- NPFC Home

Click on the Document Icon  to the left of a record to display a COFR Confirmation in html. You may print the COFR Confirmation by right clicking your mouse and selecting "print" from the list.

VESEL NAME	VESEL TYPE	HULL TYPE	GROSS TONNAGE	COFR NUMBER	EFFECTIVE DATE	EXPIRATION DATE	COFR APPLICANT	VIN	INSURANCE CANCEL FLAG
 CBR 2022 TANKBARGE D			1619	832273 - 22	10/23/2022	10/23/2025	CENTRAL BOAT RENTALS INC	D1248783	
 CBR 2022 TANKBARGE D			1619	841310 - 21	3/15/2024	3/15/2027	CHEM CARRIERS, L.L.C	D1248783	

< Prev Next >

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Version 3.7 -- This version is designed for Internet Explorer, Edge, Chrome, Firefox and Safari.



**SOUTHWEST SHIPYARD, L.P.**  
18310 Market Street, Channelview, Texas 77530  
Phone: 281-860-3200 Fax: 281-860-3215

Form # 7.5.1(C).19 - D

## BARGE VAPOR TIGHTNESS DOCUMENT

THE FOLLOWING BARGE WAS TESTED IN ACCORDANCE WITH THE NATIONAL EMISSION STANDARD FOR BENZENE EMISSIONS FROM BENZENE TRANSFER OPERATIONS, 40 CFR – Sub-Chapter C, Part 61, Sub-Part bb, Section 302(e)(2), MARINE VESSEL VAPOR TIGHTNESS REQUIREMENTS.

BARGE NAME/NUMBER: CBR - 2022

BARGE OWNER: CHOM CARROLLS

TESTING LOCATION: SOUTHWEST SHIPYARD, L.P.  
GAS FRONT OPERATIONS  
18310 MARKET STREET  
CHANNELVIEW, TX 77530

DATE OF TEST: 7.29.25

SWSLP TESTER / POSITION: LoMarcus Johnson / foreman

SIGNATURE OF SWSLP TESTER: LoMarcus Johnson / foreman

WITNESSING SWSLP INSPECTOR/POSITION: Michael Carroll / Supervisor

SWSLP INSPECTOR SIGNATURE: Michael Carroll

## TEST RESULTS

THIS BARGE HAS BEEN TESTED IN ACCORDANCE WITH 40 CFR PART 60 APPENDIX A-7 TEST METHOD 21 AND IS CONSIDERED VAPOR TIGHT.

TIME START: 21:30

STARTING PRESSURE: 28.0

TIME STOP: 22:40

ENDING PRESSURE: 27.9

LEAK INDICATOR: NO VISUAL LEAK INDICATIONS OBSERVED



# SOUTHWEST SHIPYARD, L.P.

F-7.5.1(R).6.3-E

18310 Market Street, Channelview, Texas 77530 Phone: 281-860-3200 Fax: 281-860-3215  
8502 Cypress Street, Houston, Texas 77012 Phone: 713-967-6300 Fax: 713-967-6301  
1002 Texas Clipper Rd., Galveston, Texas 77554 Phone: 409-740-3755 Fax: 409-740-3451

## BARGE PIPELINE PRESSURE TEST

THE FOLLOWING BARGE PIPELINE WAS PRESSURE TESTED USING AIR OR LIQUID NITROGEN IN ACCORDANCE WITH SOUTHWEST SHIPYARD PRESSURE TESTING AND INSPECTION PROCEDURES.

BARGE NAME/NUMBER: CBR 2022

BARGE OWNER: CHEM CARRIERS

OWNER ADDRESS: \_\_\_\_\_

TESTING LOCATION:

SOUTHWEST SHIPYARD, L.P.  
18310 MARKET STREET  
CHANNELVIEW, TX 77530

SOUTHWEST SHIPYARD, L.P.  
8502 CYPRESS  
HOUSTON, TX 77012

SOUTHWEST SHIPYARD, L.P.  
1002 TEXAS CLIPPER RD.  
GALVESTON, TX 77554

Identify Location by Checking Box

DATE OF TEST: 7/29/25

SWSLP TESTER/POSITION: Lo Marcus Johnson / Foreman

SWSLP TESTER SIGNATURE: Lo Marcus Johnson / foreman

WITNESSING SWSLP INSPECTOR/POSITION: Michael Carrico / Supervisor

SWSLP INSPECTOR SIGNATURE: Michael C

## TEST RESULTS

THIS BARGE HAS BEEN TESTED AND INSPECTED IN ACCORDANCE WITH SOUTHWEST SHIPYARD PIPELINE PRESSURE TESTING PROCEDURE, USING THE FOLLOWING GAS: AIR

TIME START: 20:00 TIME STOP: 21:00

PIPING TEST PRESSURE: 20 PSI BELOW DECK, 188 PSI ABOVE DECK

ENDING PRESSURE: 187.9 PSI WITH 10 MIN MINIMUM HOLD TIME

NO LEAKS DETECTED FROM PRESSURE DROP OR AT JOINTS, CONNECTIONS AND HIGH STRESS REGIONS AROUND OPENING AREAS.

U.S. Department of  
Homeland Security

United States  
Coast Guard



Commanding Officer  
United States Coast Guard  
Marine Safety Center

US Coast Guard Stop 7430  
2703 Martin Luther King Jr. Ave. SE  
Washington, DC 20593-7430  
Staff Symbol: MSC-5  
Phone: (202) 795-6729  
Email: securityplaninfo@uscg.mil

16710  
VS-373528  
September 20, 2022

Central Boat Rentals, Inc.  
Attn: Mike Defelice  
P.O. Box 2545  
Morgan City, LA 70381  
mdefelice@centralboat.com

Subj: CENTRAL BOAT RENTALS, INC. VESSELS  
VESSEL SECURITY PLAN APPROVAL WITH AMENDMENTS

Ref: (a) Your correspondence dated September 8, 2022  
(b) Title 33 Code of Federal Regulations (CFR) Part 104  
(c) MSC Vessel Security Plan Approval letter dated November 30, 2017

Dear Mr. Defelice:

We have conducted a review of the amendments to your approved Vessel Security Plan (VSP) submitted with reference (a) in accordance with reference (b) and they are **"Approved."** A list of the approved VSP Amendments is attached as enclosure (1). The list of vessels covered by this letter is attached as enclosure (2).

Your vessels must operate in compliance with this amended VSP and the requirements contained in reference (b). You are reminded to immediately report any deviation from this approved plan to the local Captain of the Port (COTP)/Officer in Charge, Marine Inspection (OCMI).

This approval will remain valid until five years from the date of reference (c) unless rescinded in writing by the local COTP/OCMI. You must review your plans annually and submit any amendments to this office for approval. Please ensure that a copy of the VSP, the approval letter as identified in reference (c), and this letter with enclosures are maintained on board the vessels if manned, or, if unmanned, at a suitable secure location so they are available during an emergency or security incident. Our Case Number for this plan is 373528. Please ensure that all future correspondence includes this Case Number.

Sincerely,

*Kathryn C. Williams*

K. C. WILLIAMS  
Lieutenant Commander, U.S. Coast Guard  
Chief, Vessel Security Division  
By direction

Enclosures: (1) List of Vessel Security Plan Amendments  
(2) List of Vessels Covered

**AMENDMENTS TO VSP APPROVED ON NOVEMBER 30, 2017**

Correspondence Dated	Page Number	Paragraph Number or Section Title	Brief Description of Changes
May 2, 2019	All	Throughout	Added one vessel to the VSP: CBR 2027, O.N. 1293956
February 23, 2020	All	Throughout	Added two vessel to the VSP: CBR 2028, O.N. 1301261 CBR 2029, O.N. 1301262
August 14, 2020	All	Throughout	Added two vessels to the VSP: HFL 429, O.N. 1257754 HFL 431, O.N. 1257764
December 4, 2021	All	Throughout	Changed CSO from David Adams to Mike Defelice and updated contact information.
September 8, 2022	All	Throughout	Added four vessels to the VSP: CBR 2030, O.N. 1328176 CBR 2031, O.N. 1328177 CBR 2032, O.N. 1328178 CBR 2033, O.N. 1328179
September 8, 2022	All	Throughout	Removed four vessels from the VSP: CBR 100, O.N. 640557 CBR 103, O.N. 642682 CBR 2229, O.N. 1135054 FOURSOME 1, O.N. 645692

**List of Vessels Covered**

<u>Vessel Name</u>	<u>Official Number (O.N.)</u>
CBR 104	649883
CBR 765	1171258
CBR 774	1133259
CBR 779	1208899
CBR 783	1214399
CBR 784	1214400
CBR 789	1217716
CBR 2011	1236628
CBR 2012	1237591
CBR 2013	1237669
CBR 2014	1237668
CBR 2015	1240420
CBR 2016	1240419
CBR 2017	1240560
CBR 2018	1240559
CBR 2021	1248194
CBR 2022	1248783
CBR 2023	1250545
CBR 2024	1250579
CBR 2025	1252880
CBR 2026	1254168
CBR 2027	1293956
CBR 2028	1301261
CBR 2029	1301262
CBR 2030	1328176
CBR 2031	1328177
CBR 2032	1328178
CBR 2033	1328179
CBR 2190	1118924
CBR 2227	1135052
CBR 2228	1135053
CBR 2301	1149254
CBR 2302	1149255
CBR 2303	1149250
CBR 2306	1247528
CBR 2307	1247549
CBR 2308	1258611
CBR 2309	1258612
CBR 2310	1258613
CBR 2311	1258614
CCS 1208	1214282
CCS 1708	1214287
D.B. 101	632049
HFL 429	1257754

Enclosure 2, page 2 of 2, to MSC letter VS-373528 of September 20, 2022

<u>Vessel Name</u>	<u>Official Number (O.N.)</u>
HFL 431	1257764
LMP 790	1218118
MARSHLAND 201	1043054
MARSHLAND 202	1049851
MARSHLAND 203	1055816
MARSHLAND 204	1063313
MARSHLAND 205	1110833
MARSHLAND 206	1117380

## NOTIFICATION AND VESSEL EMERGENCY PROCEDURES

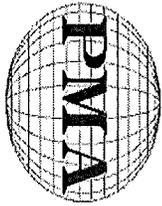
Should a vessel experience an oil spill or have a significant risk of an unplanned discharge, the following emergency notification checklist is to be used. It should be clearly understood that the Captain of the vessel has the responsibility for reporting, however, circumstances dictate that other crewmembers may have to make the proper notification. Also, the Captain's first responsibility is to protect the lives and safety of the crew and the second responsibility is to protect the vessel. When these have been accomplished, the response procedures shall be implemented.

Through use of the following information, communications with the operators of the CENTRAL BOAT barges can be established at any time from any attending towboat or from any other terminal at which any of the barges may be loading or unloading.

The owner/operator of the tank barges listed is:

CENTRAL BOAT RENTALS.  
INC.  
Attn: Mike Patterson  
1640 River Road  
Berwick, La. 70381

24 Hour Telephone:  
985-384-8200



# BARGE "CBR 2022"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>										
1 PORT	-00-0/8	00-0/8	-00-1/8	00-1/8	-00-1/4	00-1/4	-00-1/4	00-1/4	-00-2/8	00-2/8	-00-3/8	00-3/8
1 STBD	-00-0/8	00-0/8	-00-1/8	00-1/8	-00-1/4	00-1/4	-00-1/4	00-1/4	-00-2/8	00-2/8	-00-3/8	00-3/8
2 PORT	-00-0/8	00-0/8	-00-1/8	00-1/8	-00-1/4	00-1/4	-00-1/4	00-1/4	-00-2/8	00-2/8	-00-3/8	00-3/8
2 STBD	-00-1/8	00-1/8	-00-1/8	00-1/8	-00-2/8	00-2/8	-00-1/4	00-1/4	-00-1/4	00-1/4	-00-3/8	00-3/8
3 PORT	00-1/2	-00-1/2	01-1/8	-01-1/8	01-5/8	-01-5/8	02-1/4	-02-1/4	02-3/4	-02-3/4	03-3/8	-03-3/8
3 STBD	00-5/8	-00-5/8	01-1/8	-01-1/8	01-3/4	-01-3/4	02-1/4	-02-1/4	02-7/8	-02-7/8	03-3/8	-03-3/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 4'-00"  
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 253'-03"

September 5, 2013

**PRECISION MEASUREMENT**  
**& ANALYSIS, INC.**  
 P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CBR 2022"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS												GAUGE HEIGHT 15'-07 3/4"											
0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.					
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0				
0	5,290.30	0	4,949.15	0	4,586.96	0	4,224.00	0	3,861.03	0	3,498.06	0	3,135.10	0	2,772.13	0	2,409.09	0	2,046.02				
1/4	5,285.80	1/4	4,941.62	1/4	4,579.40	1/4	4,216.44	1/4	3,853.47	1/4	3,490.50	1/4	3,127.54	1/4	2,764.57	1/4	2,401.52	1/4	2,038.45				
1/2	5,281.31	1/2	4,937.09	1/2	4,571.84	1/2	4,208.87	1/2	3,845.91	1/2	3,482.94	1/2	3,119.97	1/2	2,757.01	1/2	2,393.96	1/2	2,030.89				
3/4	5,276.82	3/4	4,926.56	3/4	4,564.28	3/4	4,200.31	3/4	3,838.35	3/4	3,475.38	3/4	3,112.41	3/4	2,749.45	3/4	2,386.39	3/4	2,027.82				
1	5,271.09	1	4,919.02	1	4,556.72	1	4,193.75	1	3,830.78	1	3,467.82	1	3,104.85	1	2,741.88	1	2,378.83	1	2,023.76				
1 1/4	5,265.36	1 1/4	4,914.49	1 1/4	4,549.15	1 1/4	4,186.19	1 1/4	3,823.22	1 1/4	3,460.26	1 1/4	3,097.29	1 1/4	2,734.32	1 1/4	2,373.76	1 1/4	2,019.69				
1 1/2	5,259.63	1 1/2	4,903.36	1 1/2	4,541.59	1 1/2	4,178.63	1 1/2	3,815.66	1 1/2	3,452.69	1 1/2	3,089.73	1 1/2	2,726.76	1 1/2	2,366.14	1 1/2	2,015.62				
3/4	5,253.90	3/4	4,896.43	3/4	4,534.03	3/4	4,171.06	3/4	3,808.10	3/4	3,445.13	3/4	3,082.17	3/4	2,719.20	3/4	2,356.70	3/4	2,011.55				
2	5,246.99	2	4,888.89	2	4,526.47	2	4,163.50	2	3,800.54	2	3,437.57	2	3,074.60	2	2,711.64	2	2,348.57	2	2,007.50				
1 1/4	5,240.08	1 1/4	4,881.36	1 1/4	4,518.91	1 1/4	4,155.94	1 1/4	3,792.97	1 1/4	3,430.00	1 1/4	3,067.04	1 1/4	2,704.08	1 1/4	2,341.01	1 1/4	2,003.43				
1 1/2	5,233.16	1 1/2	4,873.83	1 1/2	4,511.35	1 1/2	4,148.38	1 1/2	3,785.41	1 1/2	3,422.45	1 1/2	3,059.48	1 1/2	2,696.51	1 1/2	2,333.44	1 1/2	2,000.36				
3/4	5,226.25	3/4	4,866.30	3/4	4,503.78	3/4	4,140.82	3/4	3,777.85	3/4	3,414.88	3/4	3,051.92	3/4	2,688.95	3/4	2,325.88	3/4	1,997.29				
3	5,218.79	3	4,858.76	3	4,496.22	3	4,133.26	3	3,770.29	3	3,407.32	3	3,044.36	3	2,681.39	3	2,318.31	3	1,993.22				
1 1/4	5,211.33	1 1/4	4,851.23	1 1/4	4,488.66	1 1/4	4,125.69	1 1/4	3,762.73	1 1/4	3,399.76	1 1/4	3,036.79	1 1/4	2,673.83	1 1/4	2,310.75	1 1/4	1,989.15				
1 1/2	5,203.86	1 1/2	4,843.70	1 1/2	4,481.10	1 1/2	4,118.13	1 1/2	3,755.17	1 1/2	3,392.20	1 1/2	3,029.23	1 1/2	2,666.27	1 1/2	2,303.18	1 1/2	1,985.08				
3/4	5,196.40	3/4	4,836.16	3/4	4,473.54	3/4	4,110.57	3/4	3,747.60	3/4	3,384.64	3/4	3,021.67	3/4	2,658.70	3/4	2,295.62	3/4	1,981.01				
4	5,188.94	4	4,828.63	4	4,465.97	4	4,103.01	4	3,740.04	4	3,377.08	4	3,014.11	4	2,651.14	4	2,288.05	4	1,976.94				
1 1/4	5,181.47	1 1/4	4,821.10	1 1/4	4,458.41	1 1/4	4,095.45	1 1/4	3,732.48	1 1/4	3,369.51	1 1/4	3,006.55	1 1/4	2,643.58	1 1/4	2,280.49	1 1/4	1,972.87				
1 1/2	5,174.01	1 1/2	4,813.57	1 1/2	4,450.85	1 1/2	4,087.88	1 1/2	3,724.92	1 1/2	3,361.95	1 1/2	2,998.99	1 1/2	2,636.02	1 1/2	2,272.92	1 1/2	1,968.80				
3/4	5,166.55	3/4	4,806.03	3/4	4,443.29	3/4	4,080.32	3/4	3,717.36	3/4	3,354.39	3/4	2,991.42	3/4	2,628.46	3/4	2,265.36	3/4	1,964.73				
5	5,159.08	5	4,798.50	5	4,435.73	5	4,072.76	5	3,709.79	5	3,346.83	5	2,983.86	5	2,620.90	5	2,257.80	5	1,960.66				
1 1/4	5,151.62	1 1/4	4,790.97	1 1/4	4,428.17	1 1/4	4,065.20	1 1/4	3,702.23	1 1/4	3,339.27	1 1/4	2,976.30	1 1/4	2,613.33	1 1/4	2,250.23	1 1/4	1,956.53				
1 1/2	5,144.16	1 1/2	4,783.44	1 1/2	4,420.60	1 1/2	4,057.64	1 1/2	3,694.67	1 1/2	3,331.70	1 1/2	2,968.74	1 1/2	2,605.77	1 1/2	2,242.67	1 1/2	1,952.40				
3/4	5,136.69	3/4	4,775.90	3/4	4,413.04	3/4	4,050.08	3/4	3,687.11	3/4	3,324.14	3/4	2,961.18	3/4	2,598.20	3/4	2,235.10	3/4	1,948.27				
6	5,129.23	6	4,768.37	6	4,405.48	6	4,042.51	6	3,679.55	6	3,316.58	6	2,953.61	6	2,593.64	6	2,227.54	6	1,944.14				
1 1/4	5,121.77	1 1/4	4,760.83	1 1/4	4,397.92	1 1/4	4,034.95	1 1/4	3,671.99	1 1/4	3,309.02	1 1/4	2,946.05	1 1/4	2,588.07	1 1/4	2,219.97	1 1/4	1,940.01				
1 1/2	5,114.30	1 1/2	4,753.30	1 1/2	4,390.36	1 1/2	4,027.39	1 1/2	3,664.42	1 1/2	3,301.46	1 1/2	2,938.49	1 1/2	2,583.51	1 1/2	2,212.41	1 1/2	1,935.88				
3/4	5,106.84	3/4	4,745.76	3/4	4,382.79	3/4	4,019.83	3/4	3,656.86	3/4	3,293.90	3/4	2,930.93	3/4	2,575.94	3/4	2,204.84	3/4	1,931.75				
7	5,099.38	7	4,738.20	7	4,375.23	7	4,012.27	7	3,649.30	7	3,286.33	7	2,923.37	7	2,568.38	7	2,197.28	7	1,927.62				
1 1/4	5,091.91	1 1/4	4,730.64	1 1/4	4,367.67	1 1/4	4,004.70	1 1/4	3,641.74	1 1/4	3,278.77	1 1/4	2,915.81	1 1/4	2,562.81	1 1/4	2,189.71	1 1/4	1,923.49				
1 1/2	5,084.45	1 1/2	4,723.08	1 1/2	4,360.11	1 1/2	3,997.14	1 1/2	3,634.18	1 1/2	3,271.21	1 1/2	2,908.24	1 1/2	2,545.25	1 1/2	2,182.15	1 1/2	1,919.36				
3/4	5,076.99	3/4	4,715.51	3/4	4,352.55	3/4	3,989.58	3/4	3,626.61	3/4	3,263.65	3/4	2,900.68	3/4	2,537.69	3/4	2,174.58	3/4	1,915.23				
8	5,069.51	8	4,707.95	8	4,344.99	8	3,982.02	8	3,619.05	8	3,256.09	8	2,893.12	8	2,530.12	8	2,167.02	8	1,911.10				
1 1/4	5,062.04	1 1/4	4,700.39	1 1/4	4,337.42	1 1/4	3,974.46	1 1/4	3,611.49	1 1/4	3,248.52	1 1/4	2,885.56	1 1/4	2,522.56	1 1/4	2,159.46	1 1/4	1,906.97				
1 1/2	5,054.57	1 1/2	4,692.83	1 1/2	4,329.86	1 1/2	3,966.80	1 1/2	3,603.93	1 1/2	3,240.96	1 1/2	2,878.00	1 1/2	2,514.99	1 1/2	2,151.89	1 1/2	1,902.84				
3/4	5,047.10	3/4	4,685.27	3/4	4,322.30	3/4	3,959.33	3/4	3,596.37	3/4	3,233.40	3/4	2,870.43	3/4	2,507.43	3/4	2,144.33	3/4	1,898.71				
9	5,039.56	9	4,677.71	9	4,314.74	9	3,951.77	9	3,588.81	9	3,225.84	9	2,862.87	9	2,499.86	9	2,136.76	9	1,894.58				
1 1/4	5,032.03	1 1/4	4,670.14	1 1/4	4,307.18	1 1/4	3,944.21	1 1/4	3,581.24	1 1/4	3,218.28	1 1/4	2,855.31	1 1/4	2,492.30	1 1/4	2,129.20	1 1/4	1,890.45				
1 1/2	5,024.49	1 1/2	4,662.58	1 1/2	4,299.61	1 1/2	3,936.65	1 1/2	3,573.68	1 1/2	3,210.72	1 1/2	2,847.75	1 1/2	2,484.73	1 1/2	2,121.63	1 1/2	1,886.32				
3/4	5,016.96	3/4	4,655.02	3/4	4,292.05	3/4	3,929.09	3/4	3,566.12	3/4	3,203.15	3/4	2,840.19	3/4	2,477.17	3/4	2,114.07	3/4	1,882.19				
10	5,009.42	10	4,647.46	10	4,284.49	10	3,921.52	10	3,558.56	10	3,195.59	10	2,832.63	10	2,469.60	10	2,106.50	10	1,878.06				
1 1/4	5,001.89	1 1/4	4,639.90	1 1/4	4,276.93	1 1/4	3,913.96	1 1/4	3,551.00	1 1/4	3,188.03	1 1/4	2,825.06	1 1/4	2,462.04	1 1/4	2,098.94	1 1/4	1,873.93				
1 1/2	4,994.35	1 1/2	4,632.33	1 1/2	4,269.37	1 1/2	3,906.40	1 1/2	3,543.43	1 1/2	3,180.47	1 1/2	2,817.50	1 1/2	2,454.47	1 1/2	2,091.37	1 1/2	1,869.80				
3/4	4,986.82	3/4	4,624.77	3/4	4,261.81	3/4	3,898.84	3/4	3,535.87	3/4	3,172.91	3/4	2,809.94	3/4	2,446.91	3/4	2,083.31	3/4	1,865.67				
11	4,979.28	11	4,617.21	11	4,254.24	11	3,891.28	11	3,528.31	11	3,165.34	11	2,802.38	11	2,439.35	11	2,076.24	11	1,861.54				
1 1/4	4,971.75	1 1/4	4,609.65	1 1/4	4,246.68	1 1/4	3,883.72	1 1/4	3,520.75	1 1/4	3,157.78	1 1/4	2,794.82	1 1/4	2,431.78	1 1/4	2,068.68	1 1/4	1,857.41				
1 1/2	4,964.22	1 1/2	4,602.09	1 1/2	4,239.12	1 1/2	3,876.15	1 1/2	3,513.19	1 1/2	3,150.22	1 1/2	2,787.25	1 1/2	2,424.22	1 1/2	2,061.52	1 1/2	1,853.28				
3/4	4,956.69	3/4	4,594.53	3/4	4,231.56	3/4	3,868.59	3/4	3,505.63	3/4	3,142.66	3/4	2,779.69	3/4	2,416.65	3/4	2,057.39	3/4	1,849.15				

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF "HERMETIC" CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

http://www.pmaocorp.net



# BARGE "CBR 2022"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15-07 3/4"

IN	10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
	IN	3/4	IN	3/4	IN	3/4	IN	3/4	IN	3/4	IN	3/4	IN	3/4	IN	3/4	IN	3/4	IN	3/4
0	2,045.99	0	1,682.89	0	1,319.78	0	957.15	0	594.09	0	231.01	0	0	0	0	0	0	0	0	0
1/4	2,038.42	1/4	1,675.32	1/4	1,312.22	1/4	949.59	1/4	586.53	1/4	223.44	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,030.86	1/2	1,667.76	1/2	1,304.66	1/2	942.04	1/2	578.96	1/2	215.88	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,023.29	3/4	1,660.19	3/4	1,297.09	3/4	934.49	3/4	571.40	3/4	208.31	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,015.73	1	1,652.63	1	1,289.53	1	926.92	1	563.84	1	200.75	1	1	1	1	1	1	1	1	1
1 1/4	2,008.16	1 1/4	1,645.06	1 1/4	1,281.96	1 1/4	919.36	1 1/4	556.27	1 1/4	193.19	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,000.60	1 1/2	1,637.50	1 1/2	1,274.40	1 1/2	914.79	1 1/2	548.71	1 1/2	185.62	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,993.03	3/4	1,629.93	3/4	1,266.83	3/4	904.23	3/4	541.14	3/4	178.06	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,985.47	2	1,622.37	2	1,259.27	2	896.67	2	533.58	2	170.49	2	2	2	2	2	2	2	2	2
1 1/4	1,977.91	1 1/4	1,614.80	1 1/4	1,251.17	1 1/4	889.10	1 1/4	526.01	1 1/4	162.93	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,970.34	1 1/2	1,607.24	1 1/2	1,244.14	1 1/2	881.54	1 1/2	518.45	1 1/2	155.36	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,962.78	3/4	1,599.68	3/4	1,236.58	3/4	873.97	3/4	510.89	3/4	147.80	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,955.21	3	1,592.11	3	1,229.03	3	866.41	3	503.32	3	140.24	3	3	3	3	3	3	3	3	3
1 1/4	1,947.65	1 1/4	1,584.55	1 1/4	1,221.47	1 1/4	858.84	1 1/4	495.76	1 1/4	132.67	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,940.08	1 1/2	1,576.98	1 1/2	1,213.92	1 1/2	851.28	1 1/2	488.19	1 1/2	125.11	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,932.52	3/4	1,569.42	3/4	1,206.37	3/4	843.72	3/4	480.63	3/4	117.54	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,924.95	4	1,561.85	4	1,198.82	4	836.15	4	473.06	4	110.06	4	4	4	4	4	4	4	4	4
1 1/4	1,917.39	1 1/4	1,554.29	1 1/4	1,191.26	1 1/4	828.59	1 1/4	465.50	1 1/4	102.57	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,909.82	1 1/2	1,546.72	1 1/2	1,183.71	1 1/2	821.02	1 1/2	457.94	1 1/2	95.09	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,902.26	3/4	1,539.16	3/4	1,176.16	3/4	813.46	3/4	450.37	3/4	87.60	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,894.69	5	1,531.59	5	1,168.61	5	805.89	5	442.81	5	80.82	5	5	5	5	5	5	5	5	5
1 1/4	1,887.13	1 1/4	1,524.03	1 1/4	1,161.06	1 1/4	798.33	1 1/4	435.24	1 1/4	74.05	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,879.57	1 1/2	1,516.46	1 1/2	1,153.50	1 1/2	790.77	1 1/2	427.68	1 1/2	67.27	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,872.00	3/4	1,508.90	3/4	1,145.95	3/4	783.20	3/4	420.11	3/4	60.50	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,864.44	6	1,501.34	6	1,138.40	6	775.64	6	412.55	6	54.98	6	6	6	6	6	6	6	6	6
1 1/4	1,856.87	1 1/4	1,493.77	1 1/4	1,130.85	1 1/4	768.07	1 1/4	404.99	1 1/4	49.47	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,849.31	1 1/2	1,486.21	1 1/2	1,123.29	1 1/2	760.51	1 1/2	397.42	1 1/2	43.95	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,841.74	3/4	1,478.64	3/4	1,115.74	3/4	752.94	3/4	389.86	3/4	38.44	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,834.18	7	1,471.08	7	1,108.19	7	745.38	7	382.29	7	34.18	7	7	7	7	7	7	7	7	7
1 1/4	1,826.61	1 1/4	1,463.51	1 1/4	1,100.64	1 1/4	737.81	1 1/4	374.73	1 1/4	29.93	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,819.05	1 1/2	1,455.95	1 1/2	1,093.09	1 1/2	730.25	1 1/2	367.16	1 1/2	25.68	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,811.48	3/4	1,448.38	3/4	1,085.53	3/4	722.69	3/4	359.60	3/4	21.42	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,803.92	8	1,440.82	8	1,077.98	8	715.12	8	352.04	8	17.94	8	8	8	8	8	8	8	8	8
1 1/4	1,796.35	1 1/4	1,433.25	1 1/4	1,070.43	1 1/4	707.56	1 1/4	344.47	1 1/4	14.47	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,788.79	1 1/2	1,425.69	1 1/2	1,062.88	1 1/2	699.99	1 1/2	336.91	1 1/2	11.00	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,781.23	3/4	1,418.12	3/4	1,055.33	3/4	692.43	3/4	329.34	3/4	7.54	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,773.66	9	1,410.56	9	1,047.77	9	684.86	9	321.78	9	4.07	9	9	9	9	9	9	9	9	9
1 1/4	1,766.10	1 1/4	1,403.00	1 1/4	1,040.22	1 1/4	677.30	1 1/4	314.21	1 1/4	0.60	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,758.53	1 1/2	1,395.43	1 1/2	1,032.67	1 1/2	669.74	1 1/2	306.65	1 1/2	0.13	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,750.97	3/4	1,387.87	3/4	1,025.12	3/4	662.17	3/4	299.09	3/4	0.44	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,743.40	10	1,380.30	10	1,017.56	10	654.61	10	291.52	10	0.90	10	10	10	10	10	10	10	10	10
1 1/4	1,735.84	1 1/4	1,372.74	1 1/4	1,010.01	1 1/4	647.04	1 1/4	283.96	1 1/4	0.36	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,728.27	1 1/2	1,365.17	1 1/2	1,002.46	1 1/2	639.48	1 1/2	276.39	1 1/2	0.19	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,720.71	3/4	1,357.61	3/4	994.91	3/4	631.91	3/4	268.83	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,713.14	11	1,350.04	11	987.36	11	624.35	11	261.26	11	0.00	11	11	11	11	11	11	11	11	11
1 1/4	1,705.58	1 1/4	1,342.48	1 1/4	979.80	1 1/4	616.79	1 1/4	253.70	1 1/4	0.00	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,698.01	1 1/2	1,334.91	1 1/2	972.25	1 1/2	609.22	1 1/2	246.14	1 1/2	0.00	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,690.45	3/4	1,327.35	3/4	964.70	3/4	601.66	3/4	238.57	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/05/2013 CL  
CALCULATED: 09/05/2013 CL  
PRINTED: 09/06/2013 SNV  
CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588  
http://www.pmaacorp.net



# BARGE "CBR 2022"

## 1 STBD

### ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS		GAUGE HEIGHT 15'-08 1/4"							
0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.
0	0	0	0	0	0	0	0	0	0
1/4	5,290.35	4,959.94	4,597.96	4,235.17	3,872.38	3,509.59	3,146.80	2,784.01	2,421.14
1/2	5,285.86	4,944.88	4,582.41	4,220.61	3,858.48	3,502.03	3,139.25	2,776.46	2,413.58
3/4	5,281.37	4,937.35	4,575.28	4,212.50	3,849.71	3,486.92	3,124.13	2,761.34	2,400.02
1	5,276.88	4,929.82	4,567.73	4,204.94	3,842.15	3,479.36	3,116.57	2,753.78	2,390.90
1 1/4	5,272.38	4,922.29	4,560.17	4,197.38	3,834.59	3,471.80	3,109.01	2,746.22	2,383.34
1 1/2	5,266.66	4,914.76	4,552.61	4,189.82	3,827.03	3,464.24	3,101.46	2,738.67	2,375.75
1 3/4	5,260.93	4,907.23	4,545.05	4,182.26	3,819.47	3,456.69	3,093.90	2,731.11	2,368.21
2	5,255.20	4,899.71	4,537.49	4,174.71	3,811.92	3,449.13	3,086.34	2,723.55	2,360.65
2 1/4	5,249.48	4,892.18	4,529.94	4,167.15	3,804.36	3,441.57	3,078.78	2,715.99	2,353.09
2 1/2	5,242.57	4,884.65	4,522.38	4,159.59	3,796.80	3,434.01	3,071.22	2,708.43	2,345.53
2 3/4	5,235.66	4,877.12	4,514.82	4,152.03	3,789.24	3,426.45	3,063.66	2,700.88	2,337.97
3	5,228.75	4,869.59	4,507.26	4,144.47	3,781.68	3,418.90	3,056.11	2,693.32	2,330.41
3 1/4	5,221.84	4,862.06	4,499.70	4,136.91	3,774.13	3,411.34	3,048.55	2,685.76	2,322.85
3 1/2	5,214.39	4,854.53	4,492.15	4,129.36	3,766.57	3,403.78	3,040.99	2,678.20	2,315.29
3 3/4	5,206.93	4,847.00	4,484.59	4,121.80	3,759.01	3,396.22	3,033.43	2,670.64	2,307.73
4	5,199.47	4,839.47	4,477.03	4,114.24	3,751.45	3,388.66	3,025.87	2,663.09	2,300.17
4 1/4	5,192.01	4,831.94	4,469.47	4,106.68	3,743.89	3,381.10	3,018.32	2,655.53	2,292.61
4 1/2	5,184.55	4,824.42	4,461.91	4,099.12	3,736.34	3,373.55	3,010.76	2,647.97	2,285.04
4 3/4	5,177.09	4,816.89	4,454.35	4,091.57	3,728.78	3,365.99	3,003.20	2,640.41	2,277.48
5	5,169.63	4,809.36	4,446.80	4,084.01	3,721.22	3,358.43	2,995.64	2,632.85	2,269.92
5 1/4	5,162.17	4,801.83	4,439.24	4,076.45	3,713.66	3,350.87	2,988.08	2,625.28	2,262.36
5 1/2	5,154.71	4,794.30	4,431.68	4,068.89	3,706.10	3,343.31	2,980.53	2,617.72	2,254.80
5 3/4	5,147.25	4,786.77	4,424.12	4,061.33	3,698.54	3,335.76	2,972.97	2,610.16	2,247.24
6	5,139.79	4,779.24	4,416.56	4,053.78	3,690.99	3,328.20	2,965.41	2,602.60	2,239.68
6 1/4	5,132.33	4,771.71	4,409.01	4,046.22	3,683.43	3,320.64	2,957.85	2,595.04	2,232.12
6 1/2	5,124.87	4,764.18	4,401.45	4,038.66	3,675.87	3,313.08	2,950.29	2,587.48	2,224.56
6 3/4	5,117.41	4,756.64	4,393.89	4,031.10	3,668.31	3,305.52	2,942.73	2,579.92	2,217.00
7	5,109.95	4,749.10	4,386.33	4,023.54	3,660.75	3,297.97	2,935.18	2,572.36	2,209.44
7 1/4	5,102.49	4,741.56	4,378.77	4,015.99	3,653.20	3,290.41	2,927.62	2,564.80	2,201.87
7 1/2	5,095.03	4,734.00	4,371.22	4,008.43	3,645.64	3,282.85	2,920.06	2,557.24	2,194.31
7 3/4	5,087.57	4,726.45	4,363.66	4,000.87	3,638.08	3,275.29	2,912.50	2,549.68	2,186.75
8	5,080.11	4,718.89	4,356.10	3,993.31	3,630.52	3,267.73	2,904.94	2,542.11	2,179.19
8 1/4	5,072.65	4,711.33	4,348.54	3,985.75	3,622.96	3,260.18	2,897.39	2,534.55	2,171.63
8 1/2	5,065.18	4,703.77	4,340.98	3,978.19	3,615.41	3,252.62	2,889.83	2,526.99	2,164.07
8 3/4	5,057.71	4,696.21	4,333.43	3,970.64	3,607.85	3,245.06	2,882.27	2,519.43	2,156.51
9	5,050.24	4,688.66	4,325.87	3,963.08	3,600.29	3,237.50	2,874.71	2,511.87	2,148.95
9 1/4	5,042.78	4,681.10	4,318.31	3,955.52	3,592.73	3,229.94	2,867.15	2,504.31	2,141.39
9 1/2	5,035.24	4,673.54	4,310.75	3,947.96	3,585.17	3,222.38	2,859.60	2,496.75	2,133.83
9 3/4	5,027.71	4,665.98	4,303.19	3,940.40	3,577.62	3,214.83	2,852.04	2,489.19	2,126.27
10	5,020.18	4,658.42	4,295.63	3,932.85	3,570.06	3,207.27	2,844.48	2,481.63	2,118.70
10 1/4	5,012.65	4,650.87	4,288.08	3,925.29	3,562.50	3,199.71	2,836.92	2,474.07	2,111.14
10 1/2	5,005.12	4,643.31	4,280.52	3,917.73	3,554.94	3,192.15	2,829.36	2,466.51	2,103.58
10 3/4	4,997.59	4,635.75	4,272.96	3,910.17	3,547.38	3,184.59	2,821.81	2,458.94	2,096.02
11	4,990.06	4,628.19	4,265.40	3,902.61	3,539.82	3,177.04	2,814.25	2,451.38	2,088.46
11 1/4	4,982.52	4,620.63	4,257.84	3,895.06	3,532.27	3,169.48	2,806.69	2,443.82	2,080.90
11 1/2	4,975.00	4,613.08	4,250.29	3,887.50	3,524.71	3,161.92	2,799.13	2,436.26	2,073.34
11 3/4	4,967.47	4,605.52	4,242.73	3,879.94	3,517.15	3,154.36	2,791.57	2,428.70	2,065.78

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT & ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
 http://www.pmacorp.net

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH IAPMO CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF "HERMETIC" CLOSED GAUGING VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.



# BARGE "CBR 2022"

1 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,058.22	0	1,695.29	0	1,332.37	0	971.44	0	608.92	0	246.01	0		0		0		0	
1/4	2,050.66	1/4	1,687.73	1/4	1,324.81	1/4	963.93	1/4	601.36	1/4	238.45	1/4		1/4		1/4		1/4	
1/2	2,043.10	1/2	1,680.17	1/2	1,317.25	1/2	956.42	1/2	598.80	1/2	230.89	1/2		1/2		1/2		1/2	
3/4	2,035.53	3/4	1,672.61	3/4	1,309.69	3/4	948.91	3/4	586.24	3/4	223.33	3/4		3/4		3/4		3/4	
1	2,027.97	1	1,665.05	1	1,302.13	1	941.40	1	578.68	1	215.77	1		1		1		1	
1/4	2,020.41	1/4	1,657.49	1/4	1,294.57	1/4	933.89	1/4	571.12	1/4	208.21	1/4		1/4		1/4		1/4	
1/2	2,012.85	1/2	1,649.93	1/2	1,287.01	1/2	926.36	1/2	563.55	1/2	200.65	1/2		1/2		1/2		1/2	
3/4	2,005.29	3/4	1,642.37	3/4	1,279.45	3/4	918.84	3/4	555.99	3/4	193.09	3/4		3/4		3/4		3/4	
2	1,997.73	2	1,634.81	2	1,271.90	2	911.31	2	548.43	2	185.52	2		2		2		2	
1/4	1,990.17	1/4	1,627.25	1/4	1,264.34	1/4	903.78	1/4	540.87	1/4	177.96	1/4		1/4		1/4		1/4	
1/2	1,982.61	1/2	1,619.69	1/2	1,256.82	1/2	896.22	1/2	533.31	1/2	170.40	1/2		1/2		1/2		1/2	
3/4	1,975.05	3/4	1,612.12	3/4	1,249.30	3/4	888.66	3/4	525.75	3/4	162.84	3/4		3/4		3/4		3/4	
3	1,967.49	3	1,604.56	3	1,241.78	3	881.10	3	518.19	3	155.28	3		3		3		3	
1/4	1,959.93	1/4	1,597.00	1/4	1,234.26	1/4	873.54	1/4	510.63	1/4	147.72	1/4		1/4		1/4		1/4	
1/2	1,952.36	1/2	1,589.44	1/2	1,226.75	1/2	865.98	1/2	503.07	1/2	140.16	1/2		1/2		1/2		1/2	
3/4	1,944.80	3/4	1,581.88	3/4	1,219.24	3/4	858.42	3/4	495.51	3/4	132.60	3/4		3/4		3/4		3/4	
4	1,937.24	4	1,574.32	4	1,211.73	4	850.86	4	487.95	4	125.04	4		4		4		4	
1/4	1,929.68	1/4	1,566.76	1/4	1,204.22	1/4	843.30	1/4	480.39	1/4	117.48	1/4		1/4		1/4		1/4	
1/2	1,922.12	1/2	1,559.20	1/2	1,196.72	1/2	835.74	1/2	472.83	1/2	110.00	1/2		1/2		1/2		1/2	
3/4	1,914.56	3/4	1,551.64	3/4	1,189.21	3/4	828.18	3/4	465.27	3/4	102.52	3/4		3/4		3/4		3/4	
5	1,907.00	5	1,544.08	5	1,181.70	5	820.62	5	457.71	5	95.03	5		5		5		5	
1/4	1,899.44	1/4	1,536.52	1/4	1,174.19	1/4	813.05	1/4	450.15	1/4	87.55	1/4		1/4		1/4		1/4	
1/2	1,891.88	1/2	1,528.95	1/2	1,166.68	1/2	805.49	1/2	442.59	1/2	80.78	1/2		1/2		1/2		1/2	
3/4	1,884.32	3/4	1,521.39	3/4	1,159.17	3/4	797.93	3/4	435.02	3/4	74.01	3/4		3/4		3/4		3/4	
6	1,876.76	6	1,513.83	6	1,151.66	6	790.37	6	427.46	6	67.23	6		6		6		6	
1/4	1,869.19	1/4	1,506.27	1/4	1,144.15	1/4	782.81	1/4	419.90	1/4	60.46	1/4		1/4		1/4		1/4	
1/2	1,861.63	1/2	1,498.71	1/2	1,136.64	1/2	775.25	1/2	412.34	1/2	54.95	1/2		1/2		1/2		1/2	
3/4	1,854.07	3/4	1,491.15	3/4	1,129.13	3/4	767.69	3/4	404.78	3/4	49.44	3/4		3/4		3/4		3/4	
7	1,846.51	7	1,483.59	7	1,121.62	7	760.13	7	397.22	7	43.92	7		7		7		7	
1/4	1,838.95	1/4	1,476.03	1/4	1,114.12	1/4	752.57	1/4	389.66	1/4	38.41	1/4		1/4		1/4		1/4	
1/2	1,831.39	1/2	1,468.47	1/2	1,106.61	1/2	745.01	1/2	382.10	1/2	34.16	1/2		1/2		1/2		1/2	
3/4	1,823.83	3/4	1,460.91	3/4	1,099.10	3/4	737.45	3/4	374.54	3/4	29.91	3/4		3/4		3/4		3/4	
8	1,816.27	8	1,453.35	8	1,091.59	8	729.89	8	366.98	8	25.66	8		8		8		8	
1/4	1,808.71	1/4	1,445.78	1/4	1,084.08	1/4	722.33	1/4	359.42	1/4	21.41	1/4		1/4		1/4		1/4	
1/2	1,801.15	1/2	1,438.22	1/2	1,076.57	1/2	714.77	1/2	351.86	1/2		1/2		1/2		1/2		1/2	
3/4	1,793.59	3/4	1,430.66	3/4	1,069.06	3/4	707.21	3/4	344.30	3/4		3/4		3/4		3/4		3/4	
9	1,786.02	9	1,423.10	9	1,061.55	9	699.65	9	336.74	9		9		9		9		9	
1/4	1,778.46	1/4	1,415.54	1/4	1,054.04	1/4	692.09	1/4	329.18	1/4		1/4		1/4		1/4		1/4	
1/2	1,770.90	1/2	1,407.98	1/2	1,046.53	1/2	684.52	1/2	321.62	1/2		1/2		1/2		1/2		1/2	
3/4	1,763.34	3/4	1,400.42	3/4	1,039.02	3/4	676.96	3/4	314.06	3/4		3/4		3/4		3/4		3/4	
10	1,755.78	10	1,392.86	10	1,031.52	10	669.40	10	306.49	10		10		10		10		10	
1/4	1,748.22	1/4	1,385.30	1/4	1,024.01	1/4	661.84	1/4	298.93	1/4		1/4		1/4		1/4		1/4	
1/2	1,740.66	1/2	1,377.74	1/2	1,016.50	1/2	654.28	1/2	291.37	1/2		1/2		1/2		1/2		1/2	
3/4	1,733.10	3/4	1,370.18	3/4	1,008.99	3/4	646.72	3/4	283.81	3/4		3/4		3/4		3/4		3/4	
11	1,725.54	11	1,362.61	11	1,001.48	11	639.16	11	276.25	11		11		11		11		11	
1/4	1,717.98	1/4	1,355.05	1/4	993.97	1/4	631.60	1/4	268.69	1/4		1/4		1/4		1/4		1/4	
1/2	1,710.42	1/2	1,347.49	1/2	986.46	1/2	624.04	1/2	261.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,702.85	3/4	1,339.93	3/4	978.95	3/4	616.48	3/4	253.57	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/05/2013 CL  
 CALCULATED: 09/05/2013 CL  
 PRINTED: 09/06/2013 SW  
 CANCELS AND SUPERCEDES  
 ALL PRIOR TO 09/2013

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
 http://www.pmacorp.net



# BARGE "CBR 2022"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS		GAUGE HEIGHT 15'-0" / 12"																	
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	5,259.82	0	4,917.34	0	4,556.91	0	4,195.73	0	3,834.54	0	3,473.36	0	3,112.17	0	2,750.98	0	2,389.73
1/4	1/4	1/4	5,255.35	1/4	4,909.85	1/4	4,549.39	1/4	4,188.20	1/4	3,827.02	1/4	3,465.83	1/4	3,104.64	1/4	2,743.46	1/4	2,382.20
1/2	1/2	1/2	4,541.87	1/2	4,202.55	1/2	3,819.49	1/2	3,458.31	1/2	3,097.12	1/2	2,735.93	1/2	2,374.74	1/2	2,013.55	1/2	1,652.36
3/4	3/4	3/4	5,245.17	3/4	4,894.86	3/4	4,534.34	3/4	4,173.15	3/4	3,811.97	3/4	3,450.78	3/4	3,089.60	3/4	2,728.41	3/4	2,367.14
1	1	1	4,239.47	1	4,887.36	1	4,526.81	1	4,165.63	1	3,804.44	1	3,443.26	1	3,082.07	1	2,720.89	1	2,359.62
1/4	1/4	1/4	5,233.77	1/4	4,879.86	1/4	4,519.29	1/4	4,158.10	1/4	3,796.92	1/4	3,435.73	1/4	3,074.55	1/4	2,713.36	1/4	2,352.09
1/2	1/2	1/2	5,228.07	1/2	4,872.37	1/2	4,511.76	1/2	4,150.58	1/2	3,789.39	1/2	3,428.21	1/2	3,067.02	1/2	2,705.84	1/2	2,344.56
3/4	3/4	3/4	5,221.20	3/4	4,864.87	3/4	4,504.24	3/4	4,143.05	3/4	3,781.87	3/4	3,420.68	3/4	3,059.50	3/4	2,698.31	3/4	2,337.03
2	2	2	5,214.32	2	4,857.38	2	4,496.71	2	4,135.53	2	3,774.34	2	3,413.16	2	3,051.97	2	2,690.79	2	2,329.51
1/4	1/4	1/4	5,207.44	1/4	4,849.88	1/4	4,489.19	1/4	4,128.00	1/4	3,766.82	1/4	3,405.63	1/4	3,044.45	1/4	2,683.26	1/4	2,321.98
1/2	1/2	1/2	5,200.57	1/2	4,842.39	1/2	4,481.66	1/2	4,120.48	1/2	3,759.29	1/2	3,398.11	1/2	3,036.92	1/2	2,675.74	1/2	2,314.45
3/4	3/4	3/4	5,193.14	3/4	4,834.89	3/4	4,474.14	3/4	4,112.95	3/4	3,751.77	3/4	3,390.58	3/4	3,029.40	3/4	2,668.21	3/4	2,306.92
3	3	3	5,185.71	3	4,827.39	3	4,466.62	3	4,105.43	3	3,744.24	3	3,383.06	3	3,021.87	3	2,660.69	3	2,299.40
1/4	1/4	1/4	5,178.29	1/4	4,819.90	1/4	4,459.09	1/4	4,097.91	1/4	3,736.72	1/4	3,375.53	1/4	3,014.35	1/4	2,653.16	1/4	2,291.87
1/2	1/2	1/2	5,170.86	1/2	4,812.40	1/2	4,451.57	1/2	4,090.38	1/2	3,729.19	1/2	3,368.01	1/2	3,006.82	1/2	2,645.64	1/2	2,284.34
3/4	3/4	3/4	5,163.43	3/4	4,804.91	3/4	4,444.04	3/4	4,082.86	3/4	3,721.67	3/4	3,360.48	3/4	2,999.30	3/4	2,638.12	3/4	2,276.81
4	4	4	5,156.01	4	4,797.41	4	4,436.52	4	4,075.33	4	3,714.15	4	3,352.96	4	2,991.77	4	2,630.59	4	2,269.29
1/4	1/4	1/4	5,148.58	1/4	4,789.92	1/4	4,428.99	1/4	4,067.81	1/4	3,706.62	1/4	3,345.44	1/4	2,984.25	1/4	2,623.07	1/4	2,261.76
1/2	1/2	1/2	5,141.15	1/2	4,782.42	1/2	4,421.47	1/2	4,060.28	1/2	3,699.10	1/2	3,337.91	1/2	2,976.72	1/2	2,615.55	1/2	2,254.23
3/4	3/4	3/4	5,133.73	3/4	4,774.93	3/4	4,413.94	3/4	4,052.76	3/4	3,691.57	3/4	3,330.39	3/4	2,969.20	3/4	2,608.02	3/4	2,246.70
5	5	5	5,126.30	5	4,767.43	5	4,406.42	5	4,045.23	5	3,684.05	5	3,322.86	5	2,964.15	5	2,602.50	5	2,239.18
1/4	1/4	1/4	5,118.85	1/4	4,759.94	1/4	4,398.89	1/4	4,037.71	1/4	3,676.52	1/4	3,315.34	1/4	2,954.15	1/4	2,592.97	1/4	2,231.65
1/2	1/2	1/2	5,111.45	1/2	4,752.44	1/2	4,391.37	1/2	4,030.18	1/2	3,669.00	1/2	3,307.81	1/2	2,946.63	1/2	2,585.44	1/2	2,224.12
3/4	3/4	3/4	5,104.02	3/4	4,744.94	3/4	4,383.84	3/4	4,022.66	3/4	3,661.47	3/4	3,300.29	3/4	2,939.10	3/4	2,577.91	3/4	2,216.59
6	6	6	5,096.60	6	4,737.45	6	4,376.32	6	4,015.13	6	3,653.95	6	3,292.76	6	2,931.58	6	2,570.39	6	2,209.07
1/4	1/4	1/4	5,089.17	1/4	4,729.95	1/4	4,368.79	1/4	4,007.61	1/4	3,646.42	1/4	3,285.24	1/4	2,924.05	1/4	2,562.86	1/4	2,201.54
1/2	1/2	1/2	5,081.74	1/2	4,722.46	1/2	4,361.27	1/2	4,000.08	1/2	3,638.90	1/2	3,277.71	1/2	2,916.53	1/2	2,555.33	1/2	2,194.01
3/4	3/4	3/4	5,074.32	3/4	4,714.93	3/4	4,353.74	3/4	3,992.56	3/4	3,631.37	3/4	3,270.19	3/4	2,909.00	3/4	2,547.80	3/4	2,186.48
7	7	7	5,066.89	7	4,707.41	7	4,346.22	7	3,985.03	7	3,623.85	7	3,262.66	7	2,901.48	7	2,540.28	7	2,178.96
1/4	1/4	1/4	5,059.46	1/4	4,699.88	1/4	4,338.70	1/4	3,977.51	1/4	3,616.32	1/4	3,255.14	1/4	2,893.95	1/4	2,532.75	1/4	2,171.43
1/2	1/2	1/2	5,052.04	1/2	4,692.36	1/2	4,331.17	1/2	3,969.99	1/2	3,608.80	1/2	3,247.61	1/2	2,886.43	1/2	2,525.22	1/2	2,163.90
3/4	3/4	3/4	5,044.60	3/4	4,684.83	3/4	4,323.65	3/4	3,962.46	3/4	3,601.27	3/4	3,240.09	3/4	2,878.90	3/4	2,517.69	3/4	2,156.37
8	8	8	5,037.17	8	4,677.31	8	4,316.12	8	3,954.94	8	3,593.75	8	3,232.56	8	2,871.38	8	2,510.17	8	2,148.85
1/4	1/4	1/4	5,029.73	1/4	4,669.78	1/4	4,308.60	1/4	3,947.41	1/4	3,586.23	1/4	3,225.04	1/4	2,863.85	1/4	2,502.64	1/4	2,141.32
1/2	1/2	1/2	5,022.30	1/2	4,662.26	1/2	4,301.07	1/2	3,939.89	1/2	3,578.70	1/2	3,217.52	1/2	2,856.33	1/2	2,495.11	1/2	2,133.79
3/4	3/4	3/4	5,014.80	3/4	4,654.73	3/4	4,293.55	3/4	3,932.36	3/4	3,571.18	3/4	3,209.99	3/4	2,848.80	3/4	2,487.58	3/4	2,126.26
9	9	9	5,007.30	9	4,647.21	9	4,286.02	9	3,924.84	9	3,563.65	9	3,202.47	9	2,841.28	9	2,480.06	9	2,118.74
1/4	1/4	1/4	4,999.80	1/4	4,639.68	1/4	4,278.50	1/4	3,917.31	1/4	3,556.13	1/4	3,194.94	1/4	2,833.76	1/4	2,472.53	1/4	2,111.21
1/2	1/2	1/2	4,992.31	1/2	4,632.16	1/2	4,270.97	1/2	3,909.79	1/2	3,548.60	1/2	3,187.42	1/2	2,826.23	1/2	2,465.00	1/2	2,103.68
3/4	3/4	3/4	4,984.81	3/4	4,624.63	3/4	4,263.45	3/4	3,902.26	3/4	3,541.08	3/4	3,179.89	3/4	2,818.18	3/4	2,457.47	3/4	2,096.15
10	10	10	4,977.31	10	4,617.11	10	4,255.92	10	3,894.74	10	3,533.55	10	3,173.37	10	2,811.11	10	2,449.95	10	2,088.63
1/4	1/4	1/4	4,969.81	1/4	4,609.58	1/4	4,248.40	1/4	3,887.21	1/4	3,526.03	1/4	3,164.84	1/4	2,803.66	1/4	2,442.42	1/4	2,081.10
1/2	1/2	1/2	4,962.32	1/2	4,602.06	1/2	4,240.87	1/2	3,880.69	1/2	3,515.50	1/2	3,157.32	1/2	2,798.13	1/2	2,434.89	1/2	2,073.57
3/4	3/4	3/4	4,954.82	3/4	4,594.54	3/4	4,233.35	3/4	3,872.16	3/4	3,510.98	3/4	3,150.98	3/4	2,788.61	3/4	2,427.36	3/4	2,066.04
11	11	11	4,947.32	11	4,587.01	11	4,225.82	11	3,864.64	11	3,503.45	11	3,144.27	11	2,781.08	11	2,419.84	11	2,058.52
1/4	1/4	1/4	4,939.83	1/4	4,579.49	1/4	4,218.30	1/4	3,857.11	1/4	3,495.93	1/4	3,134.74	1/4	2,773.56	1/4	2,412.31	1/4	2,050.99
1/2	1/2	1/2	4,932.33	1/2	4,571.96	1/2	4,210.78	1/2	3,849.59	1/2	3,488.40	1/2	3,127.22	1/2	2,766.03	1/2	2,404.78	1/2	2,043.46
3/4	3/4	3/4	4,924.84	3/4	4,564.44	3/4	4,203.25	3/4	3,842.07	3/4	3,480.88	3/4	3,119.69	3/4	2,758.51	3/4	2,397.25	3/4	2,035.93

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588  
http://www.pmmcorp.net

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH NIPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF "HERMETIC" CLOSED GAUGING VALVE.  
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.



# BARGE "CBR 2022"

2 PORT  
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS		GAUGE HEIGHT 15'-07 1/2"																	
IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,028.41	0	1,667.09	0	1,305.77	0	944.92	0	563.64	0	222.34	0		0		0		0	
1/4	2,020.88	1/4	1,659.56	1/4	1,298.24	1/4	937.41	1/4	576.12	1/4	214.81	1/4		1/4		1/4		1/4	
1/2	2,013.35	1/2	1,652.03	1/2	1,290.71	1/2	929.89	1/2	568.59	1/2	207.28	1/2		1/2		1/2		1/2	
3/4	2,005.82	3/4	1,644.50	3/4	1,283.18	3/4	922.37	3/4	561.06	3/4	199.76	3/4		3/4		3/4		3/4	
1	1,998.30	1	1,636.98	1	1,275.66	1	914.84	1	553.53	1	192.23	1		1		1		1	
1/4	1,990.77	1/4	1,629.45	1/4	1,268.13	1/4	907.31	1/4	546.01	1/4	184.70	1/4		1/4		1/4		1/4	
1/2	1,983.24	1/2	1,621.92	1/2	1,260.60	1/2	899.78	1/2	538.48	1/2	177.17	1/2		1/2		1/2		1/2	
3/4	1,975.71	3/4	1,614.39	3/4	1,253.08	3/4	892.26	3/4	530.95	3/4	169.65	3/4		3/4		3/4		3/4	
2	1,968.19	2	1,606.87	2	1,245.55	2	884.73	2	523.42	2	162.12	2		2		2		2	
1/4	1,960.66	1/4	1,599.34	1/4	1,238.03	1/4	877.20	1/4	515.90	1/4	154.59	1/4		1/4		1/4		1/4	
1/2	1,953.13	1/2	1,591.81	1/2	1,230.50	1/2	869.68	1/2	508.37	1/2	147.06	1/2		1/2		1/2		1/2	
3/4	1,945.60	3/4	1,584.28	3/4	1,222.98	3/4	862.15	3/4	500.84	3/4	139.54	3/4		3/4		3/4		3/4	
3	1,938.08	3	1,576.76	3	1,215.47	3	854.62	3	493.32	3	132.01	3		3		3		3	
1/4	1,930.55	1/4	1,569.23	1/4	1,207.95	1/4	847.09	1/4	485.79	1/4	124.48	1/4		1/4		1/4		1/4	
1/2	1,923.02	1/2	1,561.70	1/2	1,200.44	1/2	839.57	1/2	478.26	1/2	116.96	1/2		1/2		1/2		1/2	
3/4	1,915.49	3/4	1,554.17	3/4	1,192.92	3/4	832.04	3/4	470.73	3/4	109.51	3/4		3/4		3/4		3/4	
4	1,907.97	4	1,546.65	4	1,185.41	4	824.51	4	463.21	4	102.06	4		4		4		4	
1/4	1,900.44	1/4	1,539.12	1/4	1,177.89	1/4	816.99	1/4	455.68	1/4	94.61	1/4		1/4		1/4		1/4	
1/2	1,892.91	1/2	1,531.59	1/2	1,170.38	1/2	809.46	1/2	448.15	1/2	87.16	1/2		1/2		1/2		1/2	
3/4	1,885.38	3/4	1,524.06	3/4	1,162.86	3/4	801.93	3/4	440.63	3/4	80.42	3/4		3/4		3/4		3/4	
5	1,877.86	5	1,516.54	5	1,155.35	5	794.40	5	433.10	5	73.68	5		5		5		5	
1/4	1,870.33	1/4	1,509.01	1/4	1,147.83	1/4	786.88	1/4	425.57	1/4	66.93	1/4		1/4		1/4		1/4	
1/2	1,862.80	1/2	1,501.48	1/2	1,140.32	1/2	779.35	1/2	418.04	1/2	60.19	1/2		1/2		1/2		1/2	
3/4	1,855.27	3/4	1,493.95	3/4	1,132.80	3/4	771.82	3/4	410.52	3/4	54.70	3/4		3/4		3/4		3/4	
6	1,847.75	6	1,486.43	6	1,125.29	6	764.30	6	402.99	6	49.21	6		6		6		6	
1/4	1,840.22	1/4	1,478.90	1/4	1,117.77	1/4	756.77	1/4	395.46	1/4	43.73	1/4		1/4		1/4		1/4	
1/2	1,832.69	1/2	1,471.37	1/2	1,110.26	1/2	749.24	1/2	387.94	1/2	38.24	1/2		1/2		1/2		1/2	
3/4	1,825.16	3/4	1,463.84	3/4	1,102.74	3/4	741.71	3/4	380.41	3/4	34.01	3/4		3/4		3/4		3/4	
7	1,817.64	7	1,456.32	7	1,095.23	7	734.19	7	372.88	7	29.77	7		7		7		7	
1/4	1,810.11	1/4	1,448.79	1/4	1,087.71	1/4	726.66	1/4	365.35	1/4	25.54	1/4		1/4		1/4		1/4	
1/2	1,802.58	1/2	1,441.26	1/2	1,080.20	1/2	719.13	1/2	357.83	1/2	21.31	1/2		1/2		1/2		1/2	
3/4	1,795.05	3/4	1,433.73	3/4	1,072.68	3/4	711.60	3/4	350.30	3/4	17.08	3/4		3/4		3/4		3/4	
8	1,787.53	8	1,426.21	8	1,065.17	8	704.08	8	342.77	8	12.85	8		8		8		8	
1/4	1,780.00	1/4	1,418.68	1/4	1,057.65	1/4	696.55	1/4	335.24	1/4	8.62	1/4		1/4		1/4		1/4	
1/2	1,772.47	1/2	1,411.15	1/2	1,050.13	1/2	689.02	1/2	327.72	1/2	4.49	1/2		1/2		1/2		1/2	
3/4	1,764.94	3/4	1,403.62	3/4	1,042.62	3/4	681.50	3/4	320.19	3/4	0.36	3/4		3/4		3/4		3/4	
9	1,757.42	9	1,396.10	9	1,035.10	9	673.97	9	312.66	9	0.23	9		9		9		9	
1/4	1,749.89	1/4	1,388.57	1/4	1,027.59	1/4	666.44	1/4	305.14	1/4	0.10	1/4		1/4		1/4		1/4	
1/2	1,742.36	1/2	1,381.04	1/2	1,020.07	1/2	658.91	1/2	297.61	1/2	0.07	1/2		1/2		1/2		1/2	
3/4	1,734.83	3/4	1,373.51	3/4	1,012.56	3/4	651.39	3/4	290.08	3/4	0.04	3/4		3/4		3/4		3/4	
10	1,727.31	10	1,365.99	10	1,005.04	10	643.86	10	282.55	10	0.01	10		10		10		10	
1/4	1,719.78	1/4	1,358.46	1/4	997.53	1/4	636.33	1/4	275.03	1/4	0.00	1/4		1/4		1/4		1/4	
1/2	1,712.25	1/2	1,350.93	1/2	990.01	1/2	628.81	1/2	267.50	1/2	0.00	1/2		1/2		1/2		1/2	
3/4	1,704.72	3/4	1,343.40	3/4	982.50	3/4	621.28	3/4	259.97	3/4	0.00	3/4		3/4		3/4		3/4	
11	1,697.20	11	1,335.88	11	974.98	11	613.75	11	252.45	11	0.00	11		11		11		11	
1/4	1,689.67	1/4	1,328.35	1/4	967.47	1/4	606.22	1/4	244.92	1/4	0.00	1/4		1/4		1/4		1/4	
1/2	1,682.14	1/2	1,320.82	1/2	959.95	1/2	598.70	1/2	237.39	1/2	0.00	1/2		1/2		1/2		1/2	
3/4	1,674.61	3/4	1,313.29	3/4	952.44	3/4	591.17	3/4	229.86	3/4	0.00	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/05/2013 CL  
CALCULATED: 09/05/2013 CL  
PRINTED: 09/06/2013 SW  
CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
http://www.pimacorp.net



# BARGE "CBR 2022"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS		GAUGE HEIGHT 15'-07 1/2"																												
IN	0 FT.	1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			9 FT.				
		IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0			
0	0	5,247.72	0	4,905.00	0	4,544.29	0	4,182.85	0	3,821.41	0	3,459.96	0	3,098.52	0	2,737.07	0	2,375.53	0	2,013.99	0	1,652.44	0	1,290.89	0	929.35	0	567.80	0	206.26
1/4	1/4	5,243.25	1/4	4,897.50	1/4	4,536.76	1/4	4,175.32	1/4	3,813.88	1/4	3,452.43	1/4	3,090.99	1/4	2,729.54	1/4	2,368.00	1/4	1,999.46	1/4	1,637.91	1/4	1,276.37	1/4	914.82	1/4	553.28	1/4	191.73
1/2	1/2	5,238.77	1/2	4,892.00	1/2	4,529.23	1/2	4,167.79	1/2	3,806.35	1/2	3,444.90	1/2	3,083.46	1/2	2,722.01	1/2	2,360.47	1/2	1,991.93	1/2	1,630.38	1/2	1,268.84	1/2	907.29	1/2	545.74	1/2	183.69
3/4	3/4	5,234.30	3/4	4,887.49	3/4	4,524.70	3/4	4,164.26	3/4	3,802.82	3/4	3,441.37	3/4	3,079.93	3/4	2,718.48	3/4	2,356.93	3/4	1,995.38	3/4	1,633.83	3/4	1,272.29	3/4	910.74	3/4	548.19	3/4	186.14
1	1	5,229.83	1	4,882.99	1	4,519.17	1	4,157.73	1	3,796.28	1	3,434.83	1	3,072.39	1	2,710.94	1	2,349.49	1	1,987.04	1	1,624.59	1	1,263.14	1	904.59	1	544.04	1	181.59
1 1/4	1 1/4	5,225.36	1 1/4	4,878.49	1 1/4	4,514.17	1 1/4	4,152.73	1 1/4	3,792.83	1 1/4	3,431.38	1 1/4	3,066.89	1 1/4	2,705.44	1 1/4	2,343.99	1 1/4	1,981.54	1 1/4	1,619.09	1 1/4	1,257.64	1 1/4	899.59	1 1/4	540.04	1 1/4	179.09
1 1/2	1 1/2	5,220.89	1 1/2	4,873.99	1 1/2	4,509.64	1 1/2	4,148.20	1 1/2	3,787.75	1 1/2	3,426.30	1 1/2	3,061.81	1 1/2	2,700.36	1 1/2	2,338.91	1 1/2	1,977.46	1 1/2	1,615.01	1 1/2	1,253.19	1 1/2	895.09	1 1/2	535.59	1 1/2	175.59
1 3/4	1 3/4	5,216.42	1 3/4	4,869.49	1 3/4	4,505.17	1 3/4	4,143.73	1 3/4	3,783.28	1 3/4	3,421.83	1 3/4	3,057.34	1 3/4	2,695.89	1 3/4	2,334.44	1 3/4	1,973.01	1 3/4	1,610.56	1 3/4	1,248.74	1 3/4	891.09	1 3/4	531.09	1 3/4	171.09
2	2	5,211.95	2	4,864.99	2	4,499.11	2	4,142.61	2	3,778.22	2	3,416.77	2	3,052.28	2	2,690.83	2	2,329.38	2	1,968.09	2	1,605.64	2	1,244.29	2	886.59	2	526.59	2	166.59
2 1/4	2 1/4	5,207.48	2 1/4	4,860.49	2 1/4	4,494.64	2 1/4	4,138.11	2 1/4	3,773.73	2 1/4	3,417.88	2 1/4	3,053.39	2 1/4	2,688.94	2 1/4	2,327.94	2 1/4	1,963.59	2 1/4	1,601.14	2 1/4	1,240.34	2 1/4	882.09	2 1/4	522.09	2 1/4	162.09
2 1/2	2 1/2	5,203.01	2 1/2	4,855.99	2 1/2	4,489.79	2 1/2	4,132.61	2 1/2	3,769.24	2 1/2	3,413.39	2 1/2	3,048.90	2 1/2	2,684.45	2 1/2	2,323.45	2 1/2	1,959.14	2 1/2	1,596.69	2 1/2	1,236.44	2 1/2	877.59	2 1/2	517.59	2 1/2	157.59
2 3/4	2 3/4	5,198.54	2 3/4	4,851.49	2 3/4	4,485.33	2 3/4	4,127.43	2 3/4	3,764.79	2 3/4	3,409.94	2 3/4	3,045.45	2 3/4	2,680.00	2 3/4	2,318.50	2 3/4	1,954.74	2 3/4	1,592.29	2 3/4	1,232.64	2 3/4	873.09	2 3/4	513.09	2 3/4	153.09
3	3	5,194.07	3	4,846.99	3	4,479.99	3	4,120.50	3	3,760.24	3	3,405.39	3	3,040.90	3	2,675.45	3	2,314.00	3	1,949.74	3	1,587.29	3	1,228.74	3	868.59	3	508.59	3	148.59
3 1/4	3 1/4	5,189.60	3 1/4	4,842.49	3 1/4	4,475.49	3 1/4	4,116.00	3 1/4	3,755.79	3 1/4	3,400.88	3 1/4	3,036.39	3 1/4	2,670.94	3 1/4	2,310.44	3 1/4	1,945.74	3 1/4	1,583.29	3 1/4	1,224.29	3 1/4	864.09	3 1/4	504.09	3 1/4	144.09
3 1/2	3 1/2	5,185.13	3 1/2	4,837.99	3 1/2	4,470.99	3 1/2	4,111.50	3 1/2	3,751.24	3 1/2	3,396.33	3 1/2	3,031.84	3 1/2	2,666.39	3 1/2	2,305.89	3 1/2	1,941.14	3 1/2	1,578.69	3 1/2	1,219.74	3 1/2	859.59	3 1/2	499.59	3 1/2	140.59
3 3/4	3 3/4	5,180.66	3 3/4	4,833.49	3 3/4	4,466.99	3 3/4	4,107.50	3 3/4	3,746.24	3 3/4	3,391.33	3 3/4	3,026.84	3 3/4	2,661.39	3 3/4	2,300.89	3 3/4	1,936.44	3 3/4	1,574.99	3 3/4	1,215.29	3 3/4	855.09	3 3/4	495.09	3 3/4	136.09
4	4	5,176.19	4	4,828.99	4	4,462.49	4	4,103.00	4	3,741.74	4	3,386.83	4	3,022.34	4	2,656.89	4	2,296.39	4	1,932.14	4	1,570.69	4	1,210.74	4	850.59	4	490.59	4	131.59
4 1/4	4 1/4	5,171.72	4 1/4	4,824.49	4 1/4	4,458.00	4 1/4	4,098.50	4 1/4	3,737.24	4 1/4	3,382.33	4 1/4	3,017.84	4 1/4	2,652.39	4 1/4	2,291.89	4 1/4	1,927.64	4 1/4	1,566.19	4 1/4	1,206.29	4 1/4	846.09	4 1/4	486.09	4 1/4	127.09
4 1/2	4 1/2	5,167.25	4 1/2	4,819.99	4 1/2	4,453.50	4 1/2	4,094.00	4 1/2	3,732.74	4 1/2	3,377.83	4 1/2	3,013.34	4 1/2	2,647.89	4 1/2	2,287.39	4 1/2	1,923.14	4 1/2	1,561.69	4 1/2	1,201.74	4 1/2	841.59	4 1/2	481.59	4 1/2	122.59
4 3/4	4 3/4	5,162.78	4 3/4	4,815.49	4 3/4	4,449.00	4 3/4	4,089.50	4 3/4	3,728.24	4 3/4	3,373.33	4 3/4	3,008.84	4 3/4	2,643.39	4 3/4	2,282.89	4 3/4	1,918.14	4 3/4	1,557.69	4 3/4	1,197.29	4 3/4	837.09	4 3/4	477.09	4 3/4	117.59
5	5	5,158.31	5	4,810.99	5	4,444.50	5	4,085.00	5	3,724.74	5	3,369.83	5	3,005.34	5	2,640.89	5	2,280.39	5	1,913.64	5	1,552.19	5	1,192.74	5	832.59	5	472.59	5	112.59
5 1/4	5 1/4	5,153.84	5 1/4	4,806.49	5 1/4	4,439.00	5 1/4	4,080.50	5 1/4	3,719.24	5 1/4	3,364.33	5 1/4	2,999.84	5 1/4	2,639.39	5 1/4	2,278.89	5 1/4	1,910.14	5 1/4	1,547.69	5 1/4	1,187.74	5 1/4	827.59	5 1/4	467.59	5 1/4	107.59
5 1/2	5 1/2	5,149.37	5 1/2	4,802.00	5 1/2	4,434.50	5 1/2	4,076.00	5 1/2	3,714.74	5 1/2	3,359.83	5 1/2	2,995.34	5 1/2	2,634.89	5 1/2	2,274.39	5 1/2	1,906.14	5 1/2	1,543.69	5 1/2	1,182.74	5 1/2	823.09	5 1/2	463.09	5 1/2	103.09
5 3/4	5 3/4	5,144.90	5 3/4	4,797.50	5 3/4	4,429.00	5 3/4	4,070.50	5 3/4	3,709.24	5 3/4	3,354.33	5 3/4	2,989.84	5 3/4	2,629.39	5 3/4	2,268.89	5 3/4	1,901.64	5 3/4	1,540.19	5 3/4	1,177.74	5 3/4	818.09	5 3/4	458.09	5 3/4	98.09
6	6	5,140.43	6	4,793.00	6	4,424.50	6	4,066.00	6	3,704.74	6	3,349.83	6	2,985.34	6	2,624.89	6	2,264.39	6	1,897.14	6	1,535.69	6	1,173.74	6	813.59	6	453.59	6	93.59
6 1/4	6 1/4	5,135.96	6 1/4	4,788.50	6 1/4	4,420.00	6 1/4	4,061.50	6 1/4	3,700.24	6 1/4	3,345.33	6 1/4	2,980.84	6 1/4	2,620.39	6 1/4	2,259.89	6 1/4	1,892.64	6 1/4	1,531.19	6 1/4	1,169.74	6 1/4	809.09	6 1/4	449.09	6 1/4	89.09
6 1/2	6 1/2	5,131.49	6 1/2	4,784.00	6 1/2	4,415.50	6 1/2	4,057.00	6 1/2	3,695.74	6 1/2	3,340.83	6 1/2	2,976.34	6 1/2	2,615.89	6 1/2	2,255.39	6 1/2	1,888.14	6 1/2	1,526.69	6 1/2	1,165.74	6 1/2	804.59	6 1/2	444.59	6 1/2	84.59
6 3/4	6 3/4	5,127.02	6 3/4	4,779.50	6 3/4	4,411.00	6 3/4	4,052.50	6 3/4	3,691.24	6 3/4	3,336.33	6 3/4	2,971.84	6 3/4	2,611.39	6 3/4	2,250.89	6 3/4	1,883.64	6 3/4	1,522.19	6 3/4	1,161.74	6 3/4	795.09	6 3/4	440.09	6 3/4	80.09
7	7	5,122.55	7	4,775.00	7	4,406.50	7	4,048.00	7	3,686.74	7	3,331.83	7	2,967.34	7	2,606.89	7	2,245.39	7	1,878.14	7	1,517.69	7	1,157.74	7	790.59	7	435.59	7	75.59
7 1/4	7 1/4	5,118.08	7 1/4	4,770.50	7 1/4	4,402.00	7 1/4	4,043.50	7 1/4	3,682.24	7 1/4	3,327.33	7 1/4	2,962.84	7 1/4	2,602.39	7 1/4	2,240.89	7 1/4	1,873.64	7 1/4	1,513.19	7 1/4	1,153.74	7 1/4	785.59	7 1/4	431.09	7 1/4	71.09
7 1/2	7 1/2	5,113.61	7 1/2	4,766.00	7 1/2	4,397.50	7 1/2	4,039.00	7 1/2	3,677.74	7 1/2	3,322.83	7 1/2	2,958.34	7 1/2	2,597.89	7 1/2	2,235.39	7 1/2	1,869.14	7 1/2	1,508.69	7 1/2	1,148.74	7 1/2	780.59	7 1/2	426.59	7 1/2	66.59
7 3/4	7 3/4	5,109.14	7 3/4	4,761.50	7 3/4	4,393.00	7 3/4	4,034.50	7 3/4	3,673.24	7 3/4	3,318.33	7 3/4	2,953.84	7 3/4	2,593.39	7 3/4	2,230.89	7 3/4	1,864.64	7 3/4	1,504.19	7 3/4	1,144.74	7 3/4	775.59	7 3/4	422.09	7 3/4	62.09
8	8	5,104.67	8	4,757.00	8																									



# BARGE "CBR 2022"

2 STBD  
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

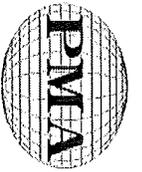
GAUGE HEIGHT 15'-07 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,013.96	0	1,652.38	0	1,290.81	0	943.78	0	584.06	0	222.50	0	0	0	0	0	0	0	0
1/4	2,006.42	1/4	1,644.85	1/4	1,283.28	1/4	936.59	1/4	576.53	1/4	214.97	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,998.89	1/2	1,637.32	1/2	1,275.74	1/2	929.40	1/2	569.00	1/2	207.43	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,991.36	3/4	1,629.78	3/4	1,268.25	3/4	922.16	3/4	561.47	3/4	199.90	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,983.83	1	1,622.25	1	1,260.76	1	914.92	1	553.93	1	192.37	1	1	1	1	1	1	1	1
1/4	1,976.29	1/4	1,614.72	1/4	1,253.27	1/4	907.68	1/4	546.40	1/4	184.84	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,968.76	1/2	1,607.19	1/2	1,245.78	1/2	900.43	1/2	538.87	1/2	177.30	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,961.23	3/4	1,599.65	3/4	1,238.58	3/4	892.90	3/4	531.34	3/4	169.77	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,953.69	2	1,592.12	2	1,231.38	2	885.37	2	523.80	2	162.24	2	2	2	2	2	2	2	2
1/4	1,946.16	1/4	1,584.59	1/4	1,224.18	1/4	877.84	1/4	516.27	1/4	154.71	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,938.63	1/2	1,577.05	1/2	1,216.98	1/2	870.30	1/2	508.74	1/2	147.17	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,931.10	3/4	1,569.52	3/4	1,209.79	3/4	862.77	3/4	501.21	3/4	139.64	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,923.56	3	1,561.99	3	1,202.60	3	855.24	3	493.67	3	132.11	3	3	3	3	3	3	3	3
1/4	1,916.03	1/4	1,554.46	1/4	1,195.41	1/4	847.71	1/4	486.14	1/4	124.58	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,908.50	1/2	1,546.92	1/2	1,188.22	1/2	840.17	1/2	478.61	1/2	117.04	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,900.96	3/4	1,539.39	3/4	1,181.03	3/4	832.64	3/4	471.08	3/4	109.59	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,893.43	4	1,531.86	4	1,173.84	4	825.11	4	463.54	4	102.13	4	4	4	4	4	4	4	4
1/4	1,885.90	1/4	1,524.32	1/4	1,166.65	1/4	817.57	1/4	456.01	1/4	94.68	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,878.37	1/2	1,516.79	1/2	1,159.46	1/2	810.04	1/2	448.48	1/2	87.23	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,870.83	3/4	1,509.26	3/4	1,152.28	3/4	802.51	3/4	440.94	3/4	80.48	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,863.30	5	1,501.73	5	1,145.09	5	794.98	5	433.41	5	73.73	5	5	5	5	5	5	5	5
1/4	1,855.77	1/4	1,494.19	1/4	1,137.90	1/4	787.44	1/4	425.88	1/4	66.98	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,848.24	1/2	1,486.66	1/2	1,130.71	1/2	779.91	1/2	418.35	1/2	60.24	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,840.70	3/4	1,479.13	3/4	1,123.52	3/4	772.38	3/4	410.81	3/4	54.74	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,833.17	6	1,471.60	6	1,116.33	6	764.85	6	403.28	6	49.25	6	6	6	6	6	6	6	6
1/4	1,825.64	1/4	1,464.06	1/4	1,109.14	1/4	757.31	1/4	395.75	1/4	43.76	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,818.10	1/2	1,456.53	1/2	1,101.95	1/2	749.78	1/2	388.22	1/2	38.27	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,810.57	3/4	1,449.00	3/4	1,094.76	3/4	742.25	3/4	380.68	3/4	34.03	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,803.04	7	1,441.46	7	1,087.57	7	734.72	7	373.15	7	29.80	7	7	7	7	7	7	7	7
1/4	1,795.51	1/4	1,433.93	1/4	1,080.38	1/4	727.18	1/4	365.62	1/4	25.56	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,787.97	1/2	1,426.40	1/2	1,073.19	1/2	719.65	1/2	358.09	1/2	21.33	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,780.44	3/4	1,418.87	3/4	1,066.00	3/4	712.12	3/4	350.55	3/4	17.10	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,772.91	8	1,411.33	8	1,058.81	8	704.59	8	343.02	8	12.87	8	8	8	8	8	8	8	8
1/4	1,765.37	1/4	1,403.80	1/4	1,051.63	1/4	697.05	1/4	335.49	1/4	8.64	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,757.84	1/2	1,396.27	1/2	1,044.44	1/2	689.52	1/2	327.96	1/2	4.40	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,750.31	3/4	1,388.73	3/4	1,037.25	3/4	681.99	3/4	320.42	3/4	0.16	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,742.78	9	1,381.20	9	1,030.06	9	674.46	9	312.89	9	0.00	9	9	9	9	9	9	9	9
1/4	1,735.24	1/4	1,373.67	1/4	1,022.87	1/4	666.92	1/4	305.36	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,727.71	1/2	1,366.14	1/2	1,015.68	1/2	659.39	1/2	297.83	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,720.18	3/4	1,358.60	3/4	1,008.49	3/4	651.86	3/4	290.29	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,712.64	10	1,351.07	10	1,001.30	10	644.32	10	282.76	10	0.00	10	10	10	10	10	10	10	10
1/4	1,705.11	1/4	1,343.54	1/4	994.11	1/4	636.79	1/4	275.23	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,697.58	1/2	1,336.00	1/2	986.92	1/2	629.26	1/2	267.69	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,690.05	3/4	1,328.47	3/4	979.73	3/4	621.73	3/4	260.16	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,682.51	11	1,320.94	11	972.54	11	614.19	11	252.63	11	0.00	11	11	11	11	11	11	11	11
1/4	1,674.98	1/4	1,313.41	1/4	965.35	1/4	606.66	1/4	245.10	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,667.45	1/2	1,305.87	1/2	958.16	1/2	599.13	1/2	237.56	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,659.92	3/4	1,298.34	3/4	950.97	3/4	591.60	3/4	230.03	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/05/2013 CL  
CALCULATED: 09/05/2013 CL  
PRINTED: 09/06/2013 SW  
CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "CBR 2022"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS												GAUGE HEIGHT 15'-07 3/4"											
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.				
0	0	4,433.06	0	4,259.31	0	4,066.00	0	3,872.30	0	3,678.59	0	3,486.02	0	3,107.93	0	2,748.60	0	2,388.69					
1/4	1/4	4,432.04	1/4	4,255.29	1/4	4,061.96	1/4	3,868.26	1/4	3,674.56	1/4	3,482.58	1/4	3,100.45	1/4	2,741.10	1/4	2,381.19					
1/2	1/2	4,431.01	1/2	4,251.27	1/2	4,057.93	1/2	3,864.23	1/2	3,670.52	1/2	3,478.59	1/2	3,092.96	1/2	2,733.60	1/2	2,373.69					
3/4	3/4	4,429.98	3/4	4,247.25	3/4	4,053.89	3/4	3,860.19	3/4	3,666.49	3/4	3,473.62	3/4	3,085.48	3/4	2,726.11	3/4	2,366.19					
1	1	4,427.72	1	4,243.23	1	4,049.86	1	3,856.15	1	3,662.45	1	3,468.16	1	3,077.99	1	2,718.61	1	2,358.69					
1/4	1/4	4,425.46	1/4	4,239.21	1/4	4,045.82	1/4	3,852.12	1/4	3,658.41	1/4	3,464.23	1/4	3,073.69	1/4	2,714.11	1/4	2,354.19					
1/2	1/2	4,423.19	1/2	4,235.19	1/2	4,041.79	1/2	3,848.08	1/2	3,654.38	1/2	3,460.30	1/2	3,069.02	1/2	2,709.61	1/2	2,349.70					
3/4	3/4	4,420.93	3/4	4,231.16	3/4	4,037.75	3/4	3,844.05	3/4	3,650.34	3/4	3,456.22	3/4	3,064.54	3/4	2,705.12	3/4	2,345.20					
2	2	4,417.49	2	4,227.14	2	4,033.72	2	3,840.01	2	3,646.31	2	3,452.14	2	3,060.30	2	2,700.64	2	2,340.70					
1/4	1/4	4,414.05	1/4	4,223.12	1/4	4,029.68	1/4	3,835.94	1/4	3,642.27	1/4	3,448.19	1/4	3,055.77	1/4	2,696.16	1/4	2,336.20					
1/2	1/2	4,410.62	1/2	4,219.10	1/2	4,025.65	1/2	3,831.98	1/2	3,638.24	1/2	3,444.11	1/2	3,051.36	1/2	2,691.68	1/2	2,331.70					
3/4	3/4	4,407.18	3/4	4,215.08	3/4	4,021.61	3/4	3,827.91	3/4	3,634.20	3/4	3,439.99	3/4	3,046.93	3/4	2,687.20	3/4	2,327.20					
3	3	4,403.20	3	4,211.06	3	4,017.57	3	3,823.87	3	3,630.17	3	3,436.43	3	3,042.43	3	2,682.72	3	2,292.70					
1/4	1/4	4,399.22	1/4	4,207.04	1/4	4,013.54	1/4	3,819.83	1/4	3,626.13	1/4	3,432.97	1/4	3,037.97	1/4	2,678.24	1/4	2,288.20					
1/2	1/2	4,395.23	1/2	4,203.02	1/2	4,009.50	1/2	3,815.80	1/2	3,622.10	1/2	3,428.90	1/2	3,033.47	1/2	2,673.76	1/2	2,283.70					
3/4	3/4	4,391.25	3/4	4,199.00	3/4	4,005.47	3/4	3,811.76	3/4	3,618.06	3/4	3,424.83	3/4	3,028.93	3/4	2,669.28	3/4	2,279.20					
4	4	4,387.27	4	4,194.98	4	4,001.43	4	3,807.73	4	3,614.02	4	3,420.77	4	3,024.43	4	2,664.80	4	2,274.70					
1/4	1/4	4,383.29	1/4	4,190.96	1/4	3,997.40	1/4	3,803.69	1/4	3,609.99	1/4	3,416.74	1/4	3,020.93	1/4	2,660.32	1/4	2,270.20					
1/2	1/2	4,379.30	1/2	4,186.93	1/2	3,993.36	1/2	3,799.66	1/2	3,605.95	1/2	3,412.64	1/2	3,016.43	1/2	2,655.84	1/2	2,265.70					
3/4	3/4	4,375.32	3/4	4,182.91	3/4	3,989.33	3/4	3,795.62	3/4	3,601.92	3/4	3,408.58	3/4	3,011.93	3/4	2,651.36	3/4	2,261.20					
5	5	4,371.34	5	4,178.89	5	3,985.29	5	3,791.59	5	3,597.88	5	3,404.73	5	3,007.43	5	2,646.88	5	2,256.70					
1/4	1/4	4,367.36	1/4	4,174.87	1/4	3,981.25	1/4	3,787.55	1/4	3,593.85	1/4	3,400.28	1/4	3,002.93	1/4	2,642.40	1/4	2,252.20					
1/2	1/2	4,363.37	1/2	4,170.85	1/2	3,977.22	1/2	3,783.52	1/2	3,589.81	1/2	3,395.81	1/2	3,001.43	1/2	2,637.92	1/2	2,247.70					
3/4	3/4	4,359.39	3/4	4,166.83	3/4	3,973.18	3/4	3,779.48	3/4	3,585.78	3/4	3,391.81	3/4	2,996.93	3/4	2,633.44	3/4	2,243.20					
6	6	4,355.41	6	4,162.81	6	3,969.15	6	3,775.44	6	3,581.74	6	3,387.74	6	2,992.43	6	2,628.96	6	2,238.70					
1/4	1/4	4,351.43	1/4	4,158.79	1/4	3,965.11	1/4	3,771.41	1/4	3,577.70	1/4	3,383.74	1/4	2,987.93	1/4	2,624.48	1/4	2,234.20					
1/2	1/2	4,347.44	1/2	4,154.77	1/2	3,961.08	1/2	3,767.37	1/2	3,573.67	1/2	3,379.74	1/2	2,983.43	1/2	2,620.00	1/2	2,229.70					
3/4	3/4	4,343.46	3/4	4,150.75	3/4	3,957.04	3/4	3,763.34	3/4	3,569.63	3/4	3,375.74	3/4	2,978.93	3/4	2,615.52	3/4	2,225.20					
7	7	4,339.48	7	4,146.71	7	3,953.01	7	3,759.30	7	3,565.60	7	3,371.74	7	2,974.43	7	2,611.04	7	2,220.70					
1/4	1/4	4,335.50	1/4	4,142.67	1/4	3,948.97	1/4	3,755.27	1/4	3,561.56	1/4	3,367.74	1/4	2,970.93	1/4	2,606.56	1/4	2,216.20					
1/2	1/2	4,331.51	1/2	4,138.64	1/2	3,944.94	1/2	3,751.23	1/2	3,557.53	1/2	3,363.74	1/2	2,966.43	1/2	2,602.08	1/2	2,211.70					
3/4	3/4	4,327.53	3/4	4,134.60	3/4	3,940.90	3/4	3,747.20	3/4	3,553.49	3/4	3,359.74	3/4	2,961.93	3/4	2,597.60	3/4	2,207.20					
8	8	4,323.54	8	4,130.57	8	3,936.86	8	3,743.16	8	3,549.46	8	3,355.74	8	2,957.43	8	2,593.12	8	2,202.70					
1/4	1/4	4,319.56	1/4	4,126.53	1/4	3,932.83	1/4	3,739.12	1/4	3,545.42	1/4	3,351.74	1/4	2,952.93	1/4	2,588.64	1/4	2,201.20					
1/2	1/2	4,315.57	1/2	4,122.50	1/2	3,928.79	1/2	3,735.09	1/2	3,541.39	1/2	3,347.74	1/2	2,948.43	1/2	2,584.16	1/2	2,196.70					
3/4	3/4	4,311.58	3/4	4,118.46	3/4	3,924.76	3/4	3,731.05	3/4	3,537.35	3/4	3,343.74	3/4	2,943.93	3/4	2,579.68	3/4	2,192.20					
9	9	4,307.56	9	4,114.43	9	3,920.72	9	3,727.02	9	3,533.31	9	3,339.74	9	2,939.43	9	2,575.20	9	2,187.70					
1/4	1/4	4,303.54	1/4	4,110.39	1/4	3,916.69	1/4	3,722.98	1/4	3,529.28	1/4	3,335.74	1/4	2,934.93	1/4	2,570.72	1/4	2,183.20					
1/2	1/2	4,299.52	1/2	4,106.36	1/2	3,912.65	1/2	3,718.95	1/2	3,525.24	1/2	3,331.74	1/2	2,930.43	1/2	2,566.24	1/2	2,178.70					
3/4	3/4	4,295.50	3/4	4,102.32	3/4	3,908.62	3/4	3,714.91	3/4	3,521.21	3/4	3,327.74	3/4	2,925.93	3/4	2,561.76	3/4	2,174.20					
10	10	4,291.48	10	4,098.28	10	3,904.54	10	3,710.88	10	3,517.14	10	3,323.74	10	2,921.43	10	2,557.28	10	2,169.70					
1/4	1/4	4,287.46	1/4	4,094.25	1/4	3,900.54	1/4	3,706.84	1/4	3,513.12	1/4	3,319.74	1/4	2,916.93	1/4	2,552.80	1/4	2,165.20					
1/2	1/2	4,283.44	1/2	4,090.21	1/2	3,896.51	1/2	3,702.81	1/2	3,509.09	1/2	3,315.74	1/2	2,912.43	1/2	2,548.32	1/2	2,160.70					
3/4	3/4	4,279.42	3/4	4,086.18	3/4	3,892.47	3/4	3,698.77	3/4	3,505.06	3/4	3,311.74	3/4	2,907.93	3/4	2,543.84	3/4	2,156.20					
11	11	4,275.39	11	4,082.14	11	3,888.44	11	3,694.73	11	3,495.89	11	3,307.74	11	2,903.43	11	2,539.36	11	2,151.70					
1/4	1/4	4,271.37	1/4	4,078.11	1/4	3,884.40	1/4	3,690.70	1/4	3,491.86	1/4	3,303.74	1/4	2,898.93	1/4	2,534.88	1/4	2,147.20					
1/2	1/2	4,267.35	1/2	4,074.07	1/2	3,880.37	1/2	3,686.66	1/2	3,487.93	1/2	3,301.74	1/2	2,894.43	1/2	2,530.40	1/2	2,142.70					
3/4	3/4	4,263.33	3/4	4,070.04	3/4	3,876.33	3/4	3,682.63	3/4	3,483.99	3/4	3,297.74	3/4	2,889.93	3/4	2,525.92	3/4	2,138.20					

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT & ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmtacorp.net>

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF "HERMETIC" CLOSED GAUGING VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED TO 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.



# BARGE "CBR 2022"

3 PORT  
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,028.75	0	1,668.73	0	1,308.71	0	949.02	0	589.05	0	229.05	0	0	0	0	0	0	0	0
1/4	2,021.25	1/4	1,661.23	1/4	1,301.21	1/4	941.52	1/4	581.55	1/4	221.55	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,013.75	1/2	1,653.73	1/2	1,293.71	1/2	934.03	1/2	574.05	1/2	214.05	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,006.25	3/4	1,646.23	3/4	1,286.21	3/4	926.54	3/4	566.55	3/4	206.55	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,998.74	1	1,638.73	1	1,278.71	1	919.05	1	559.05	1	199.05	1	1	1	1	1	1	1	1
1/4	1,991.24	1/4	1,631.23	1/4	1,271.21	1/4	911.55	1/4	551.55	1/4	191.55	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,983.74	1/2	1,623.74	1/2	1,263.71	1/2	904.05	1/2	544.05	1/2	184.05	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,976.24	3/4	1,616.22	3/4	1,256.21	3/4	896.56	3/4	536.55	3/4	176.55	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,968.74	2	1,608.72	2	1,248.71	2	889.06	2	529.05	2	169.05	2	2	2	2	2	2	2	2
1/4	1,961.24	1/4	1,601.22	1/4	1,241.21	1/4	881.56	1/4	521.55	1/4	161.55	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,953.74	1/2	1,593.72	1/2	1,233.70	1/2	874.06	1/2	514.05	1/2	154.05	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,946.24	3/4	1,586.22	3/4	1,226.20	3/4	866.56	3/4	506.55	3/4	146.55	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,938.74	3	1,578.72	3	1,218.71	3	859.06	3	499.05	3	139.05	3	3	3	3	3	3	3	3
1/4	1,931.24	1/4	1,571.22	1/4	1,211.21	1/4	851.56	1/4	491.55	1/4	131.55	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,923.74	1/2	1,563.72	1/2	1,203.72	1/2	844.06	1/2	484.05	1/2	124.05	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,916.24	3/4	1,556.22	3/4	1,196.22	3/4	836.56	3/4	476.55	3/4	116.55	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,908.74	4	1,548.72	4	1,188.73	4	829.06	4	469.05	4	109.13	4	4	4	4	4	4	4	4
1/4	1,901.24	1/4	1,541.22	1/4	1,181.24	1/4	821.56	1/4	461.55	1/4	101.70	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,893.74	1/2	1,533.72	1/2	1,173.75	1/2	814.06	1/2	454.05	1/2	94.28	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,886.24	3/4	1,526.22	3/4	1,166.25	3/4	806.56	3/4	446.55	3/4	86.86	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,878.74	5	1,518.72	5	1,158.76	5	799.06	5	439.05	5	80.14	5	5	5	5	5	5	5	5
1/4	1,871.24	1/4	1,511.22	1/4	1,151.27	1/4	791.56	1/4	431.55	1/4	73.42	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,863.74	1/2	1,503.72	1/2	1,143.78	1/2	784.06	1/2	424.05	1/2	66.70	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,856.24	3/4	1,496.22	3/4	1,136.29	3/4	776.56	3/4	416.55	3/4	59.98	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,848.74	6	1,488.72	6	1,128.80	6	769.06	6	409.05	6	54.52	6	6	6	6	6	6	6	6
1/4	1,841.24	1/4	1,481.22	1/4	1,121.31	1/4	761.56	1/4	401.55	1/4	49.05	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,833.74	1/2	1,473.72	1/2	1,113.82	1/2	754.06	1/2	394.05	1/2	43.58	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,826.24	3/4	1,466.22	3/4	1,106.33	3/4	746.56	3/4	386.55	3/4	38.11	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,818.74	7	1,458.72	7	1,098.84	7	739.06	7	379.05	7	33.89	7	7	7	7	7	7	7	7
1/4	1,811.23	1/4	1,451.22	1/4	1,091.34	1/4	731.56	1/4	371.55	1/4	29.68	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,803.73	1/2	1,443.72	1/2	1,083.85	1/2	724.06	1/2	364.05	1/2	25.46	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,796.23	3/4	1,436.21	3/4	1,076.36	3/4	716.56	3/4	356.55	3/4	21.24	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,788.73	8	1,428.71	8	1,068.87	8	709.06	8	349.05	8	16.99	8	8	8	8	8	8	8	8
1/4	1,781.23	1/4	1,421.21	1/4	1,061.38	1/4	701.56	1/4	341.55	1/4	12.78	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,773.73	1/2	1,413.71	1/2	1,053.89	1/2	694.05	1/2	334.05	1/2	8.57	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,766.23	3/4	1,406.21	3/4	1,046.40	3/4	686.55	3/4	326.55	3/4	4.36	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,758.73	9	1,398.71	9	1,038.91	9	679.05	9	319.05	9	0.15	9	9	9	9	9	9	9	9
1/4	1,751.23	1/4	1,391.21	1/4	1,031.42	1/4	671.55	1/4	311.55	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,743.73	1/2	1,383.71	1/2	1,023.93	1/2	664.05	1/2	304.05	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,736.23	3/4	1,376.21	3/4	1,016.43	3/4	656.55	3/4	296.55	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,728.73	10	1,368.71	10	1,008.94	10	649.05	10	289.05	10	0	10	10	10	10	10	10	10	10
1/4	1,721.23	1/4	1,361.21	1/4	1,001.45	1/4	641.55	1/4	281.55	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,713.73	1/2	1,353.71	1/2	993.96	1/2	634.05	1/2	274.05	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,706.23	3/4	1,346.21	3/4	986.47	3/4	626.55	3/4	266.55	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,698.73	11	1,338.71	11	978.98	11	619.05	11	259.05	11	0	11	11	11	11	11	11	11	11
1/4	1,691.23	1/4	1,331.21	1/4	971.49	1/4	611.55	1/4	251.55	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,683.73	1/2	1,323.71	1/2	964.00	1/2	604.05	1/2	244.05	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,676.23	3/4	1,316.21	3/4	956.51	3/4	596.55	3/4	236.55	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/05/2013 CL  
CALCULATED: 09/05/2013 CL  
PRINTED: 09/06/2013 SW  
CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 20192  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CBR 2022"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
	IN	IN																		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF "HERMETIC" CLOSED GAUGING VALVE.  
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT & ANALYSIS, INC.

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Pearland, Texas 77588  
http://www.pmacorp.net



# BARGE "CBR 2022"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

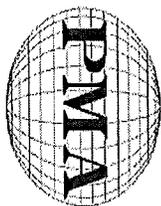
GAUGE HEIGHT 15'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,021.63	0	1,662.37	0	1,304.55	0	955.88	0	603.01	0	243.64	0	0	0	0	0	0	0	0
1/4	2,014.14	1/4	1,654.88	1/4	1,297.13	1/4	948.73	1/4	595.52	1/4	236.16	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,006.66	1/2	1,647.40	1/2	1,289.71	1/2	941.58	1/2	588.03	1/2	228.67	1/2	221.18	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,999.17	3/4	1,639.91	3/4	1,282.28	3/4	934.43	3/4	580.54	3/4	221.18	3/4	221.18	3/4	3/4	3/4	3/4	3/4	3/4
1	1,991.69	1	1,632.43	1	1,274.86	1	927.28	1	573.06	1	213.70	1	1	1	1	1	1	1	1
1/4	1,984.20	1/4	1,624.94	1/4	1,267.44	1/4	920.13	1/4	565.57	1/4	206.21	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,976.72	1/2	1,617.46	1/2	1,260.02	1/2	912.98	1/2	558.08	1/2	198.72	1/2	198.72	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,969.23	3/4	1,609.97	3/4	1,252.60	3/4	905.82	3/4	550.60	3/4	191.24	3/4	191.24	3/4	3/4	3/4	3/4	3/4	3/4
2	1,961.75	2	1,602.49	2	1,245.18	2	898.67	2	543.11	2	183.75	2	183.75	2	2	2	2	2	2
1/4	1,954.26	1/4	1,595.00	1/4	1,237.76	1/4	891.51	1/4	535.62	1/4	176.26	1/4	168.78	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,946.78	1/2	1,587.52	1/2	1,230.35	1/2	884.34	1/2	528.14	1/2	168.78	1/2	168.78	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,939.30	3/4	1,580.03	3/4	1,222.94	3/4	877.16	3/4	520.65	3/4	161.29	3/4	161.29	3/4	3/4	3/4	3/4	3/4	3/4
3	1,931.81	3	1,572.55	3	1,215.54	3	869.99	3	513.16	3	153.80	3	153.80	3	3	3	3	3	3
1/4	1,924.33	1/4	1,565.07	1/4	1,208.13	1/4	862.81	1/4	505.68	1/4	146.31	1/4	138.82	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,916.84	1/2	1,557.58	1/2	1,200.72	1/2	855.64	1/2	498.19	1/2	138.82	1/2	138.82	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,909.36	3/4	1,550.10	3/4	1,193.32	3/4	848.46	3/4	490.70	3/4	131.33	3/4	131.33	3/4	3/4	3/4	3/4	3/4	3/4
4	1,901.87	4	1,542.61	4	1,185.91	4	841.28	4	483.22	4	123.84	4	123.84	4	4	4	4	4	4
1/4	1,894.39	1/4	1,535.13	1/4	1,178.50	1/4	834.10	1/4	475.73	1/4	116.35	1/4	116.35	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,886.90	1/2	1,527.64	1/2	1,171.10	1/2	826.86	1/2	468.24	1/2	108.94	1/2	108.94	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,879.42	3/4	1,520.16	3/4	1,163.71	3/4	819.62	3/4	460.76	3/4	101.53	3/4	101.53	3/4	3/4	3/4	3/4	3/4	3/4
5	1,871.93	5	1,512.67	5	1,156.31	5	812.38	5	453.27	5	94.12	5	94.12	5	5	5	5	5	5
1/4	1,864.45	1/4	1,505.19	1/4	1,148.91	1/4	805.15	1/4	445.78	1/4	86.71	1/4	86.71	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,856.96	1/2	1,497.71	1/2	1,141.76	1/2	797.66	1/2	438.30	1/2	80.02	1/2	80.02	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,849.48	3/4	1,490.23	3/4	1,134.61	3/4	790.17	3/4	430.81	3/4	73.32	3/4	73.32	3/4	3/4	3/4	3/4	3/4	3/4
6	1,842.00	6	1,482.76	6	1,127.46	6	782.69	6	423.32	6	66.63	6	66.63	6	6	6	6	6	6
1/4	1,834.51	1/4	1,475.28	1/4	1,120.31	1/4	775.20	1/4	415.84	1/4	59.93	1/4	59.93	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,827.03	1/2	1,467.86	1/2	1,113.16	1/2	767.71	1/2	408.35	1/2	54.47	1/2	54.47	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,819.54	3/4	1,460.43	3/4	1,106.01	3/4	760.23	3/4	400.86	3/4	49.01	3/4	49.01	3/4	3/4	3/4	3/4	3/4	3/4
7	1,812.06	7	1,453.01	7	1,098.87	7	752.74	7	393.38	7	43.56	7	43.56	7	7	7	7	7	7
1/4	1,804.57	1/4	1,445.59	1/4	1,091.72	1/4	745.25	1/4	385.89	1/4	38.10	1/4	38.10	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,797.09	1/2	1,438.17	1/2	1,084.57	1/2	737.77	1/2	378.40	1/2	33.88	1/2	33.88	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,789.60	3/4	1,430.74	3/4	1,077.42	3/4	730.28	3/4	370.92	3/4	29.67	3/4	29.67	3/4	3/4	3/4	3/4	3/4	3/4
8	1,782.12	8	1,423.32	8	1,070.27	8	722.79	8	363.43	8	25.45	8	25.45	8	8	8	8	8	8
1/4	1,774.63	1/4	1,415.90	1/4	1,063.12	1/4	715.31	1/4	355.94	1/4	21.23	1/4	21.23	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,767.15	1/2	1,408.47	1/2	1,055.97	1/2	707.82	1/2	348.46	1/2	16.88	1/2	16.88	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,759.67	3/4	1,401.05	3/4	1,048.82	3/4	700.33	3/4	340.97	3/4	12.47	3/4	12.47	3/4	3/4	3/4	3/4	3/4	3/4
9	1,752.18	9	1,393.63	9	1,041.67	9	692.85	9	333.48	9	8.06	9	8.06	9	9	9	9	9	9
1/4	1,744.70	1/4	1,386.21	1/4	1,034.52	1/4	685.36	1/4	326.00	1/4	3.65	1/4	3.65	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,737.21	1/2	1,378.78	1/2	1,027.37	1/2	677.87	1/2	318.51	1/2	0	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,729.73	3/4	1,371.36	3/4	1,020.22	3/4	670.39	3/4	311.02	3/4	0	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
10	1,722.24	10	1,363.94	10	1,013.07	10	662.90	10	303.54	10	0	10	0	10	10	10	10	10	10
1/4	1,714.76	1/4	1,356.51	1/4	1,005.93	1/4	655.41	1/4	296.05	1/4	0	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,707.27	1/2	1,349.09	1/2	998.78	1/2	647.93	1/2	288.56	1/2	0	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,699.79	3/4	1,341.67	3/4	991.63	3/4	640.44	3/4	281.08	3/4	0	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
11	1,692.30	11	1,334.25	11	984.48	11	632.95	11	273.59	11	0	11	0	11	11	11	11	11	11
1/4	1,684.82	1/4	1,326.82	1/4	977.33	1/4	625.47	1/4	266.10	1/4	0	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,677.33	1/2	1,319.40	1/2	970.18	1/2	617.98	1/2	258.62	1/2	0	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,669.85	3/4	1,311.98	3/4	963.03	3/4	610.49	3/4	251.13	3/4	0	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/05/2013 CL  
 CALCULATED: 09/05/2013 CL  
 PRINTED: 09/06/2013 SW  
 CANCELS AND SUPERCEDES  
 ALL PRIOR TO 09/2013

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmaacorp.net>



# BARGE "CBR 2022"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	STERN										
1 PORT	00-0/8	-00-0/8	00-1/8	-00-1/8	00-1/4	-00-1/4	00-1/4	-00-1/4	00-2/8	-00-2/8	00-3/8	-00-3/8
1 STBD	00-0/8	-00-0/8	00-1/8	-00-1/8	00-1/4	-00-1/4	00-1/4	-00-1/4	00-2/8	-00-2/8	00-3/8	-00-3/8
2 PORT	00-0/8	-00-0/8	00-1/8	-00-1/8	00-1/4	-00-1/4	00-1/4	-00-1/4	00-2/8	-00-2/8	00-3/8	-00-3/8
2 STBD	00-1/8	-00-1/8	00-1/8	-00-1/8	00-2/8	-00-2/8	00-1/4	-00-1/4	00-1/4	-00-1/4	00-3/8	-00-3/8
3 PORT	-00-1/2	00-1/2	-01-1/8	01-1/8	-01-5/8	01-5/8	-02-1/4	02-1/4	-02-3/4	02-3/4	-03-3/8	03-3/8
3 STBD	-00-5/8	00-5/8	-01-1/8	01-1/8	-01-3/4	01-3/4	-02-1/4	02-1/4	-02-7/8	02-7/8	-03-3/8	03-3/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD DRAFT = 2'-00"  
 AFT DRAFT = 4'-00"  
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS -00-1/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 253'-03"

September 5, 2013

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CBR 2022"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	21.42	0	359.60	0	722.68	0	1,085.53	0	1,448.38	0	1,811.48	0	2,174.58	0	2,537.68	0	2,900.68	0	3,263.64
1/4	25.67	1/4	367.16	1/4	730.25	1/4	1,093.08	1/4	1,455.94	1/4	1,819.04	1/4	2,182.14	1/4	2,545.25	1/4	2,908.24	1/4	3,271.21
1/2	29.92	1/2	374.72	1/2	737.81	1/2	1,100.63	1/2	1,463.51	1/2	1,826.61	1/2	2,189.71	1/2	2,552.81	1/2	2,915.80	1/2	3,278.77
3/4	34.18	3/4	382.29	3/4	745.37	3/4	1,108.19	3/4	1,471.07	3/4	1,834.17	3/4	2,197.27	3/4	2,560.37	3/4	2,923.36	3/4	3,286.33
1	38.43	1	389.85	1	752.94	1	1,115.74	1	1,478.64	1	1,841.74	1	2,204.84	1	2,567.94	1	2,930.92	1	3,293.89
1 1/4	43.95	1 1/4	397.42	1 1/4	760.50	1 1/4	1,123.29	1 1/4	1,486.20	1 1/4	1,849.30	1 1/4	2,212.40	1 1/4	2,575.50	1 1/4	2,938.49	1 1/4	3,301.45
1 1/2	49.46	1 1/2	404.98	1 1/2	768.07	1 1/2	1,130.84	1 1/2	1,493.77	1 1/2	1,856.87	1 1/2	2,219.97	1 1/2	2,583.07	1 1/2	2,946.05	1 1/2	3,309.01
2	54.98	2	412.55	2	775.63	2	1,138.39	2	1,501.33	2	1,864.43	2	2,227.53	2	2,590.63	2	2,953.61	2	3,316.58
2 1/4	60.49	2 1/4	420.11	2 1/4	783.20	2 1/4	1,145.95	2 1/4	1,508.90	2 1/4	1,872.00	2 1/4	2,235.10	2 1/4	2,598.20	2 1/4	2,961.17	2 1/4	3,324.14
2 1/2	67.27	2 1/2	427.67	2 1/2	790.76	2 1/2	1,153.50	2 1/2	1,516.46	2 1/2	1,879.56	2 1/2	2,242.66	2 1/2	2,605.76	2 1/2	2,968.73	2 1/2	3,331.70
2 3/4	74.04	2 3/4	435.24	2 3/4	798.32	2 3/4	1,161.05	2 3/4	1,524.02	2 3/4	1,887.13	2 3/4	2,250.23	2 3/4	2,613.33	2 3/4	2,976.30	2 3/4	3,339.26
3	80.82	3	442.80	3	805.89	3	1,168.60	3	1,531.59	3	1,894.69	3	2,257.79	3	2,620.89	3	2,983.86	3	3,346.82
3 1/4	87.60	3 1/4	450.37	3 1/4	813.45	3 1/4	1,176.16	3 1/4	1,539.15	3 1/4	1,902.25	3 1/4	2,265.36	3 1/4	2,628.46	3 1/4	2,991.42	3 1/4	3,354.39
3 1/2	95.08	3 1/2	457.93	3 1/2	821.02	3 1/2	1,183.71	3 1/2	1,546.72	3 1/2	1,909.82	3 1/2	2,272.92	3 1/2	2,636.02	3 1/2	2,998.98	3 1/2	3,361.95
3 3/4	102.57	3 3/4	465.50	3 3/4	828.58	3 3/4	1,191.26	3 3/4	1,554.28	3 3/4	1,917.38	3 3/4	2,280.48	3 3/4	2,645.58	3 3/4	3,006.54	3 3/4	3,369.51
4	110.05	4	473.06	4	836.15	4	1,198.81	4	1,561.85	4	1,924.95	4	2,288.05	4	2,651.14	4	3,014.10	4	3,377.07
4 1/4	117.54	4 1/4	480.62	4 1/4	843.71	4 1/4	1,206.36	4 1/4	1,569.41	4 1/4	1,932.51	4 1/4	2,295.61	4 1/4	2,658.70	4 1/4	3,021.67	4 1/4	3,384.63
4 1/2	125.10	4 1/2	488.19	4 1/2	851.27	4 1/2	1,213.92	4 1/2	1,576.98	4 1/2	1,940.08	4 1/2	2,303.18	4 1/2	2,666.26	4 1/2	3,029.23	4 1/2	3,392.19
4 3/4	132.67	4 3/4	495.75	4 3/4	858.84	4 3/4	1,221.47	4 3/4	1,584.54	4 3/4	1,947.64	4 3/4	2,310.74	4 3/4	2,673.82	4 3/4	3,036.79	4 3/4	3,399.76
5	140.23	5	503.32	5	866.40	5	1,229.02	5	1,592.11	5	1,955.21	5	2,318.31	5	2,681.38	5	3,044.35	5	3,407.32
5 1/4	147.79	5 1/4	510.88	5 1/4	873.97	5 1/4	1,234.14	5 1/4	1,607.23	5 1/4	1,962.77	5 1/4	2,325.87	5 1/4	2,688.95	5 1/4	3,051.91	5 1/4	3,414.88
5 1/2	155.36	5 1/2	518.45	5 1/2	881.53	5 1/2	1,244.14	5 1/2	1,620.23	5 1/2	1,970.34	5 1/2	2,333.44	5 1/2	2,696.51	5 1/2	3,059.47	5 1/2	3,422.44
5 3/4	162.92	5 3/4	526.01	5 3/4	889.10	5 3/4	1,251.70	5 3/4	1,634.80	5 3/4	1,977.90	5 3/4	2,341.00	5 3/4	2,704.07	5 3/4	3,067.04	5 3/4	3,430.00
6	170.49	6	533.57	6	896.66	6	1,259.26	6	1,642.36	6	1,985.46	6	2,348.57	6	2,711.63	6	3,074.60	6	3,437.56
6 1/4	178.05	6 1/4	541.14	6 1/4	904.22	6 1/4	1,266.83	6 1/4	1,652.36	6 1/4	1,993.03	6 1/4	2,356.19	6 1/4	2,719.19	6 1/4	3,082.16	6 1/4	3,445.13
6 1/2	185.62	6 1/2	548.70	6 1/2	911.79	6 1/2	1,274.39	6 1/2	1,662.93	6 1/2	2,000.59	6 1/2	2,363.69	6 1/2	2,726.76	6 1/2	3,089.72	6 1/2	3,452.69
6 3/4	193.18	6 3/4	556.27	6 3/4	919.35	6 3/4	1,281.96	6 3/4	1,673.06	6 3/4	2,008.16	6 3/4	2,371.26	6 3/4	2,734.32	6 3/4	3,097.28	6 3/4	3,460.25
7	200.74	7	563.83	7	926.92	7	1,289.52	7	1,682.88	7	2,015.72	7	2,378.82	7	2,741.88	7	3,104.85	7	3,467.81
7 1/4	208.31	7 1/4	571.40	7 1/4	934.48	7 1/4	1,297.09	7 1/4	1,690.19	7 1/4	2,023.29	7 1/4	2,386.39	7 1/4	2,749.44	7 1/4	3,112.41	7 1/4	3,475.37
7 1/2	215.87	7 1/2	578.96	7 1/2	942.05	7 1/2	1,304.65	7 1/2	1,697.75	7 1/2	2,030.85	7 1/2	2,393.95	7 1/2	2,757.00	7 1/2	3,119.97	7 1/2	3,482.94
7 3/4	223.44	7 3/4	586.52	7 3/4	949.59	7 3/4	1,312.22	7 3/4	1,705.32	7 3/4	2,038.42	7 3/4	2,401.52	7 3/4	2,764.56	7 3/4	3,127.53	7 3/4	3,490.50
8	231.00	8	594.09	8	957.14	8	1,319.78	8	1,713.14	8	2,045.98	8	2,409.08	8	2,772.13	8	3,135.04	8	3,498.06
8 1/4	238.57	8 1/4	601.65	8 1/4	964.69	8 1/4	1,327.34	8 1/4	1,720.45	8 1/4	2,053.55	8 1/4	2,416.65	8 1/4	2,779.69	8 1/4	3,142.65	8 1/4	3,505.62
8 1/2	246.13	8 1/2	609.22	8 1/2	972.25	8 1/2	1,334.91	8 1/2	1,728.27	8 1/2	2,061.11	8 1/2	2,424.21	8 1/2	2,787.25	8 1/2	3,150.22	8 1/2	3,513.18
8 3/4	253.69	8 3/4	616.78	8 3/4	979.80	8 3/4	1,342.47	8 3/4	1,735.57	8 3/4	2,068.68	8 3/4	2,431.78	8 3/4	2,794.81	8 3/4	3,157.78	8 3/4	3,520.74
9	261.26	9	624.35	9	987.35	9	1,350.04	9	1,743.14	9	2,076.24	9	2,439.34	9	2,802.37	9	3,165.34	9	3,528.31
9 1/4	268.82	9 1/4	631.91	9 1/4	994.90	9 1/4	1,357.60	9 1/4	1,750.70	9 1/4	2,083.80	9 1/4	2,446.91	9 1/4	2,809.94	9 1/4	3,172.90	9 1/4	3,535.87
9 1/2	276.39	9 1/2	639.47	9 1/2	1,002.45	9 1/2	1,365.17	9 1/2	1,758.27	9 1/2	2,091.37	9 1/2	2,454.47	9 1/2	2,817.50	9 1/2	3,180.46	9 1/2	3,543.43
9 3/4	283.95	9 3/4	647.04	9 3/4	1,010.01	9 3/4	1,372.73	9 3/4	1,765.83	9 3/4	2,098.93	9 3/4	2,462.03	9 3/4	2,825.06	9 3/4	3,188.03	9 3/4	3,550.99
10	291.52	10	654.60	10	1,017.56	10	1,380.30	10	1,773.40	10	2,106.50	10	2,469.60	10	2,832.62	10	3,195.59	10	3,558.55
10 1/4	299.08	10 1/4	662.17	10 1/4	1,025.11	10 1/4	1,387.86	10 1/4	1,780.96	10 1/4	2,114.06	10 1/4	2,477.16	10 1/4	2,840.18	10 1/4	3,203.15	10 1/4	3,566.12
10 1/2	306.65	10 1/2	669.73	10 1/2	1,032.66	10 1/2	1,395.43	10 1/2	1,788.53	10 1/2	2,121.63	10 1/2	2,484.73	10 1/2	2,847.74	10 1/2	3,210.71	10 1/2	3,573.68
10 3/4	314.21	10 3/4	677.30	10 3/4	1,040.22	10 3/4	1,402.99	10 3/4	1,793.66	10 3/4	2,129.19	10 3/4	2,492.29	10 3/4	2,855.31	10 3/4	3,218.27	10 3/4	3,581.24
11	321.77	11	684.86	11	1,047.77	11	1,410.56	11	1,798.66	11	2,136.76	11	2,499.86	11	2,862.87	11	3,225.83	11	3,588.80
11 1/4	329.34	11 1/4	692.42	11 1/4	1,055.32	11 1/4	1,418.12	11 1/4	1,803.91	11 1/4	2,144.32	11 1/4	2,507.42	11 1/4	2,870.43	11 1/4	3,233.40	11 1/4	3,596.36
11 1/2	336.90	11 1/2	699.99	11 1/2	1,062.87	11 1/2	1,425.68	11 1/2	1,808.91	11 1/2	2,151.89	11 1/2	2,514.99	11 1/2	2,877.99	11 1/2	3,240.96	11 1/2	3,603.92
11 3/4	344.47	11 3/4	707.55	11 3/4	1,070.42	11 3/4	1,433.25	11 3/4	1,813.91	11 3/4	2,159.45	11 3/4	2,522.55	11 3/4	2,885.55	11 3/4	3,248.52	11 3/4	3,611.49
12	352.03	12	715.12	12	1,077.98	12	1,440.81	12	1,818.91	12	2,167.02	12	2,530.12	12	2,893.12	12	3,256.08	12	3,619.05

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF "HERMETIC" CLOSED GAUGING VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2082  
 Pearland, Texas 77588  
<http://www.pmaoerp.net>



# BARGE "CBR 2022"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 3/4"

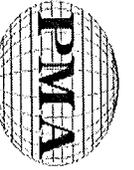
10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0																		
0	3,626.61	0	3,989.58	0	4,352.54	0	4,715.51	0	5,076.98	0	5,438.44	0	5,799.91	0	6,161.38	0	6,522.85	0	6,884.32
1/4	3,634.17	1/4	3,997.14	1/4	4,360.10	1/4	4,723.07	1/4	5,084.44	1/4	5,445.81	1/4	5,807.18	1/4	6,168.55	1/4	6,529.92	1/4	6,891.29
1/2	3,641.73	1/2	4,004.70	1/2	4,367.67	1/2	4,730.63	1/2	5,091.91	1/2	5,453.19	1/2	5,814.47	1/2	6,175.75	1/2	6,537.03	1/2	6,898.31
3/4	3,649.30	3/4	4,012.26	3/4	4,375.23	3/4	4,738.19	3/4	5,099.37	3/4	5,460.55	3/4	5,821.73	3/4	6,182.91	3/4	6,544.09	3/4	6,905.27
1	3,656.86	1	4,019.82	1	4,382.79	1	4,745.76	1	5,106.83	1	5,467.91	1	5,829.09	1	6,190.27	1	6,551.45	1	6,912.63
1/4	3,664.42	1/4	4,027.39	1/4	4,390.35	1/4	4,753.29	1/4	5,114.30	1/4	5,475.37	1/4	5,836.44	1/4	6,197.52	1/4	6,558.59	1/4	6,920.74
1/2	3,671.98	1/2	4,034.95	1/2	4,397.91	1/2	4,760.83	1/2	5,121.76	1/2	5,482.83	1/2	5,843.90	1/2	6,202.97	1/2	6,563.62	1/2	6,925.78
3/4	3,679.54	3/4	4,042.51	3/4	4,400.48	3/4	4,763.36	3/4	5,129.22	3/4	5,490.29	3/4	5,851.36	3/4	6,212.43	3/4	6,572.50	3/4	6,937.86
2	3,687.10	2	4,050.07	2	4,413.04	2	4,775.90	2	5,136.69	2	5,497.66	2	5,858.73	2	6,219.79	2	6,580.86	2	6,945.22
1/4	3,694.67	1/4	4,057.63	1/4	4,420.60	1/4	4,783.43	1/4	5,144.15	1/4	5,505.12	1/4	5,866.19	1/4	6,226.25	1/4	6,587.32	1/4	6,950.68
1/2	3,702.23	1/2	4,065.19	1/2	4,428.16	1/2	4,790.96	1/2	5,151.61	1/2	5,512.58	1/2	5,873.65	1/2	6,231.71	1/2	6,592.78	1/2	6,955.74
3/4	3,709.79	3/4	4,072.76	3/4	4,435.72	3/4	4,798.50	3/4	5,159.08	3/4	5,519.95	3/4	5,881.02	3/4	6,236.77	3/4	6,603.84	3/4	6,960.80
3	3,717.35	3	4,080.32	3	4,443.28	3	4,806.03	3	5,166.54	3	5,527.51	3	5,888.58	3	6,241.83	3	6,608.91	3	6,965.87
1/4	3,724.91	1/4	4,087.88	1/4	4,450.85	1/4	4,813.56	1/4	5,174.00	1/4	5,534.97	1/4	5,896.04	1/4	6,246.86	1/4	6,613.98	1/4	6,970.93
1/2	3,732.48	1/2	4,095.44	1/2	4,458.41	1/2	4,821.09	1/2	5,181.47	1/2	5,540.44	1/2	5,901.51	1/2	6,251.89	1/2	6,620.00	1/2	6,975.96
3/4	3,740.04	3/4	4,103.00	3/4	4,465.97	3/4	4,828.63	3/4	5,188.93	3/4	5,545.90	3/4	5,906.97	3/4	6,256.92	3/4	6,625.02	3/4	6,980.02
4	3,747.60	4	4,110.57	4	4,473.53	4	4,836.16	4	5,196.39	4	5,551.36	4	5,912.43	4	6,261.97	4	6,630.09	4	6,985.09
1/4	3,755.16	1/4	4,118.13	1/4	4,481.09	1/4	4,843.69	1/4	5,203.86	1/4	5,558.83	1/4	5,917.90	1/4	6,267.02	1/4	6,635.11	1/4	6,990.11
1/2	3,762.72	1/2	4,125.69	1/2	4,488.66	1/2	4,851.23	1/2	5,211.32	1/2	5,563.79	1/2	5,922.95	1/2	6,272.07	1/2	6,640.12	1/2	6,995.12
3/4	3,770.28	3/4	4,133.25	3/4	4,496.22	3/4	4,858.76	3/4	5,218.78	3/4	5,568.84	3/4	5,928.02	3/4	6,277.12	3/4	6,645.13	3/4	6,999.93
5	3,777.85	5	4,140.81	5	4,503.78	5	4,866.29	5	5,226.25	5	5,573.72	5	5,933.79	5	6,282.17	5	6,650.14	5	7,004.94
1/4	3,785.41	1/4	4,148.37	1/4	4,511.34	1/4	4,873.82	1/4	5,233.16	1/4	5,578.77	1/4	5,939.84	1/4	6,287.22	1/4	6,655.15	1/4	7,009.95
1/2	3,792.97	1/2	4,155.94	1/2	4,518.90	1/2	4,881.36	1/2	5,240.07	1/2	5,583.62	1/2	5,944.69	1/2	6,292.27	1/2	6,660.16	1/2	7,014.96
3/4	3,800.53	3/4	4,163.50	3/4	4,526.46	3/4	4,888.89	3/4	5,246.98	3/4	5,588.53	3/4	5,949.60	3/4	6,297.32	3/4	6,665.17	3/4	7,019.97
6	3,808.09	6	4,171.06	6	4,534.03	6	4,896.42	6	5,253.89	6	5,593.48	6	5,954.55	6	6,302.37	6	6,670.18	6	7,024.98
1/4	3,815.65	1/4	4,178.62	1/4	4,541.59	1/4	4,903.95	1/4	5,259.80	1/4	5,598.49	1/4	5,959.56	1/4	6,307.42	1/4	6,675.19	1/4	7,029.99
1/2	3,823.22	1/2	4,186.18	1/2	4,549.15	1/2	4,911.49	1/2	5,265.35	1/2	5,603.04	1/2	5,964.61	1/2	6,312.47	1/2	6,680.20	1/2	7,034.99
3/4	3,830.78	3/4	4,193.74	3/4	4,556.71	3/4	4,919.02	3/4	5,271.08	3/4	5,608.05	3/4	5,969.62	3/4	6,317.52	3/4	6,685.21	3/4	7,040.00
7	3,838.34	7	4,201.31	7	4,564.27	7	4,926.55	7	5,276.81	7	5,613.00	7	5,974.67	7	6,322.57	7	6,690.22	7	7,044.99
1/4	3,845.90	1/4	4,208.87	1/4	4,571.83	1/4	4,934.08	1/4	5,281.30	1/4	5,618.01	1/4	5,979.68	1/4	6,327.62	1/4	6,695.23	1/4	7,049.99
1/2	3,853.46	1/2	4,216.43	1/2	4,579.40	1/2	4,941.62	1/2	5,285.80	1/2	5,623.02	1/2	5,984.73	1/2	6,332.67	1/2	6,700.24	1/2	7,054.99
3/4	3,861.03	3/4	4,223.99	3/4	4,586.96	3/4	4,949.15	3/4	5,290.29	3/4	5,627.53	3/4	5,989.78	3/4	6,337.72	3/4	6,705.25	3/4	7,059.99
8	3,868.59	8	4,231.55	8	4,594.52	8	4,956.68	8	5,294.79	8	5,632.04	8	5,994.83	8	6,342.77	8	6,710.26	8	7,064.99
1/4	3,876.15	1/4	4,239.12	1/4	4,602.08	1/4	4,964.21	1/4	5,299.29	1/4	5,636.55	1/4	5,999.88	1/4	6,347.82	1/4	6,715.27	1/4	7,069.99
1/2	3,883.71	1/2	4,246.68	1/2	4,609.64	1/2	4,971.75	1/2	5,303.79	1/2	5,640.50	1/2	6,004.93	1/2	6,352.87	1/2	6,720.28	1/2	7,074.99
3/4	3,891.27	3/4	4,254.24	3/4	4,617.21	3/4	4,979.28	3/4	5,308.29	3/4	5,644.51	3/4	6,009.94	3/4	6,357.92	3/4	6,725.29	3/4	7,079.99
9	3,898.83	9	4,261.80	9	4,624.77	9	4,986.81	9	5,312.79	9	5,648.52	9	6,014.95	9	6,362.97	9	6,730.30	9	7,084.99
1/4	3,906.40	1/4	4,269.36	1/4	4,632.33	1/4	4,994.35	1/4	5,317.29	1/4	5,652.53	1/4	6,019.96	1/4	6,367.92	1/4	6,735.31	1/4	7,089.99
1/2	3,913.96	1/2	4,276.92	1/2	4,639.89	1/2	5,001.88	1/2	5,321.79	1/2	5,656.54	1/2	6,024.97	1/2	6,372.93	1/2	6,740.32	1/2	7,094.99
3/4	3,921.52	3/4	4,284.49	3/4	4,647.45	3/4	5,009.42	3/4	5,326.29	3/4	5,660.55	3/4	6,029.98	3/4	6,377.94	3/4	6,745.33	3/4	7,099.99
10	3,929.08	10	4,292.05	10	4,655.01	10	5,016.95	10	5,330.79	10	5,664.56	10	6,034.99	10	6,382.95	10	6,750.34	10	7,104.99
1/4	3,936.64	1/4	4,299.61	1/4	4,662.58	1/4	5,024.49	1/4	5,335.29	1/4	5,668.57	1/4	6,039.99	1/4	6,387.96	1/4	6,755.35	1/4	7,109.99
1/2	3,944.21	1/2	4,307.17	1/2	4,670.14	1/2	5,032.02	1/2	5,339.79	1/2	5,672.58	1/2	6,044.99	1/2	6,392.97	1/2	6,760.36	1/2	7,114.99
3/4	3,951.77	3/4	4,314.73	3/4	4,677.70	3/4	5,039.56	3/4	5,344.29	3/4	5,676.59	3/4	6,049.99	3/4	6,397.98	3/4	6,765.37	3/4	7,119.99
11	3,959.33	11	4,322.30	11	4,685.26	11	5,047.09	11	5,348.79	11	5,680.59	11	6,054.99	11	6,402.99	11	6,770.38	11	7,124.99
1/4	3,966.89	1/4	4,329.86	1/4	4,692.82	1/4	5,054.56	1/4	5,353.29	1/4	5,684.60	1/4	6,059.99	1/4	6,407.99	1/4	6,775.39	1/4	7,129.99
1/2	3,974.45	1/2	4,337.42	1/2	4,700.39	1/2	5,062.04	1/2	5,357.79	1/2	5,688.60	1/2	6,064.99	1/2	6,412.99	1/2	6,780.40	1/2	7,134.99
3/4	3,982.01	3/4	4,344.98	3/4	4,707.95	3/4	5,069.51	3/4	5,362.29	3/4	5,692.61	3/4	6,069.99	3/4	6,417.99	3/4	6,785.41	3/4	7,139.99

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/05/2013 CL  
CALCULATED: 09/05/2013 SW  
PRINTED: 09/05/2013 SW

CANCEL S AND SUPERCEDES  
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmtacorp.net>



# BARGE "CBR 2022"

1 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	21.41	0	359.42	0	722.33	0	1,084.08	0	1,445.79	0	1,808.71	0	2,171.63	0	2,534.56	0	2,897.39	0	3,260.18
1/4	25.66	1/4	366.98	1/4	729.89	1/4	1,091.59	1/4	1,453.35	1/4	1,816.27	1/4	2,179.19	1/4	2,542.12	1/4	2,904.95	1/4	3,267.74
1/2	29.91	1/2	373.45	1/2	737.45	1/2	1,099.12	1/2	1,460.91	1/2	1,823.83	1/2	2,186.75	1/2	2,549.68	1/2	2,912.50	1/2	3,275.29
3/4	34.16	3/4	382.10	3/4	745.01	3/4	1,106.61	3/4	1,468.47	3/4	1,833.39	3/4	2,163.33	3/4	2,557.24	3/4	2,928.85	3/4	3,282.85
1	38.41	1	389.66	1	752.57	1	1,114.12	1	1,476.03	1	1,838.95	1	2,201.88	1	2,564.80	1	2,927.62	1	3,290.41
1/4	43.93	1/4	397.22	1/4	760.13	1/4	1,121.63	1/4	1,483.59	1/4	1,846.51	1/4	2,209.44	1/4	2,572.36	1/4	2,935.18	1/4	3,297.97
1/2	49.44	1/2	404.78	1/2	767.69	1/2	1,128.14	1/2	1,491.15	1/2	1,854.07	1/2	2,217.00	1/2	2,579.92	1/2	2,942.74	1/2	3,305.53
3/4	54.95	3/4	412.34	3/4	775.25	3/4	1,136.64	3/4	1,498.71	3/4	1,861.64	3/4	2,224.56	3/4	2,587.48	3/4	2,950.29	3/4	3,313.08
2	60.46	2	419.91	2	782.81	2	1,144.15	2	1,506.27	2	1,869.20	2	2,232.12	2	2,595.04	2	2,957.85	2	3,320.64
1/4	67.24	1/4	427.47	1/4	790.37	1/4	1,151.66	1/4	1,515.66	1/4	1,876.76	1/4	2,239.68	1/4	2,247.24	1/4	2,602.60	1/4	2,972.97
1/2	74.01	1/2	435.03	1/2	797.94	1/2	1,159.17	1/2	1,521.40	1/2	1,884.32	1/2	2,247.24	1/2	2,610.16	1/2	2,972.97	1/2	3,338.20
3/4	80.78	3/4	442.59	3/4	805.50	3/4	1,166.68	3/4	1,528.96	3/4	1,891.88	3/4	2,254.80	3/4	2,617.73	3/4	2,980.53	3/4	3,343.32
3	87.55	3	450.15	3	813.06	3	1,174.19	3	1,536.52	3	1,899.44	3	2,262.36	3	2,625.29	3	2,988.09	3	3,350.87
1/4	95.04	1/4	457.71	1/4	820.62	1/4	1,181.70	1/4	1,544.08	1/4	1,907.00	1/4	2,269.92	1/4	2,632.85	1/4	2,995.64	1/4	3,358.43
1/2	102.52	1/2	465.27	1/2	828.18	1/2	1,189.21	1/2	1,551.64	1/2	1,914.56	1/2	2,277.49	1/2	2,640.41	1/2	3,003.20	1/2	3,365.99
3/4	110.00	3/4	472.83	3/4	835.74	3/4	1,196.72	3/4	1,559.20	3/4	1,922.12	3/4	2,285.05	3/4	2,647.97	3/4	3,010.76	3/4	3,373.55
4	117.48	4	480.39	4	843.30	4	1,204.23	4	1,566.76	4	1,929.68	4	2,292.61	4	2,655.53	4	3,018.32	4	3,381.11
1/4	125.04	1/4	487.95	1/4	850.86	1/4	1,211.74	1/4	1,574.32	1/4	1,937.24	1/4	2,300.17	1/4	2,663.09	1/4	3,025.88	1/4	3,388.66
1/2	132.60	1/2	495.51	1/2	858.42	1/2	1,219.24	1/2	1,581.88	1/2	1,944.81	1/2	2,307.73	1/2	2,670.65	1/2	3,033.43	1/2	3,396.22
3/4	140.16	3/4	503.07	3/4	865.98	3/4	1,226.75	3/4	1,589.44	3/4	1,952.37	3/4	2,315.29	3/4	2,678.20	3/4	3,040.99	3/4	3,403.78
5	147.72	5	510.63	5	873.54	5	1,234.26	5	1,597.00	5	1,959.93	5	2,322.85	5	2,685.76	5	3,048.55	5	3,411.34
1/4	155.28	1/4	518.19	1/4	881.10	1/4	1,241.78	1/4	1,604.57	1/4	1,967.49	1/4	2,330.41	1/4	2,693.32	1/4	3,056.11	1/4	3,418.90
1/2	162.84	1/2	525.75	1/2	888.66	1/2	1,249.30	1/2	1,612.13	1/2	1,975.05	1/2	2,337.97	1/2	2,700.88	1/2	3,063.67	1/2	3,426.46
3/4	170.41	3/4	533.31	3/4	896.22	3/4	1,256.82	3/4	1,619.69	3/4	1,982.61	3/4	2,345.53	3/4	2,708.44	3/4	3,071.22	3/4	3,434.01
6	177.97	6	540.87	6	903.78	6	1,264.34	6	1,627.25	6	1,990.17	6	2,353.09	6	2,715.99	6	3,078.78	6	3,441.57
1/4	185.53	1/4	548.44	1/4	911.34	1/4	1,271.90	1/4	1,634.81	1/4	1,997.73	1/4	2,360.65	1/4	2,723.55	1/4	3,086.34	1/4	3,449.13
1/2	193.09	1/2	556.00	1/2	918.84	1/2	1,279.46	1/2	1,642.37	1/2	2,005.29	1/2	2,368.22	1/2	2,731.11	1/2	3,093.90	1/2	3,456.69
3/4	200.65	3/4	563.56	3/4	926.37	3/4	1,287.01	3/4	1,649.93	3/4	2,012.85	3/4	2,375.78	3/4	2,738.67	3/4	3,101.46	3/4	3,464.25
7	208.21	7	571.12	7	933.89	7	1,294.57	7	1,657.49	7	2,020.41	7	2,383.34	7	2,746.23	7	3,109.01	7	3,471.80
1/4	215.77	1/4	578.68	1/4	941.40	1/4	1,302.13	1/4	1,665.05	1/4	2,027.98	1/4	2,390.90	1/4	2,753.78	1/4	3,116.57	1/4	3,479.36
1/2	223.33	1/2	586.24	1/2	948.91	1/2	1,309.69	1/2	1,672.61	1/2	2,035.54	1/2	2,398.46	1/2	2,761.34	1/2	3,124.13	1/2	3,486.92
3/4	230.89	3/4	593.80	3/4	956.42	3/4	1,317.25	3/4	1,680.17	3/4	2,043.10	3/4	2,406.02	3/4	2,768.90	3/4	3,131.69	3/4	3,494.48
8	238.45	8	601.36	8	963.94	8	1,324.81	8	1,687.73	8	2,050.66	8	2,413.58	8	2,776.46	8	3,139.25	8	3,502.04
1/4	246.01	1/4	608.92	1/4	971.44	1/4	1,332.37	1/4	1,695.30	1/4	2,058.22	1/4	2,421.14	1/4	2,784.02	1/4	3,146.81	1/4	3,509.59
1/2	253.57	1/2	616.48	1/2	978.95	1/2	1,339.93	1/2	1,702.86	1/2	2,065.78	1/2	2,428.70	1/2	2,791.57	1/2	3,154.36	1/2	3,517.15
3/4	261.13	3/4	624.04	3/4	986.46	3/4	1,347.49	3/4	1,710.42	3/4	2,073.34	3/4	2,436.26	3/4	2,799.13	3/4	3,161.92	3/4	3,524.71
9	268.69	9	631.60	9	993.97	9	1,355.06	9	1,717.98	9	2,080.90	9	2,443.82	9	2,806.69	9	3,169.48	9	3,532.27
1/4	276.25	1/4	639.16	1/4	1,001.48	1/4	1,362.62	1/4	1,725.54	1/4	2,088.46	1/4	2,451.39	1/4	2,814.25	1/4	3,177.04	1/4	3,539.83
1/2	283.81	1/2	646.72	1/2	1,008.99	1/2	1,370.18	1/2	1,733.10	1/2	2,096.02	1/2	2,458.95	1/2	2,821.81	1/2	3,184.60	1/2	3,547.38
3/4	291.38	3/4	654.28	3/4	1,016.50	3/4	1,377.74	3/4	1,740.66	3/4	2,103.58	3/4	2,466.51	3/4	2,829.37	3/4	3,192.15	3/4	3,554.94
10	298.94	10	661.84	10	1,024.01	10	1,385.30	10	1,748.22	10	2,111.15	10	2,474.07	10	2,836.92	10	3,199.71	10	3,562.50
1/4	306.50	1/4	669.41	1/4	1,031.52	1/4	1,392.86	1/4	1,755.78	1/4	2,118.71	1/4	2,481.63	1/4	2,844.48	1/4	3,207.27	1/4	3,570.06
1/2	314.06	1/2	676.97	1/2	1,039.03	1/2	1,400.42	1/2	1,763.34	1/2	2,126.27	1/2	2,489.19	1/2	2,852.04	1/2	3,214.83	1/2	3,577.62
3/4	321.62	3/4	684.53	3/4	1,046.54	3/4	1,407.98	3/4	1,770.90	3/4	2,133.83	3/4	2,496.75	3/4	2,859.60	3/4	3,222.39	3/4	3,585.18
11	329.18	11	692.09	11	1,054.04	11	1,415.54	11	1,778.47	11	2,141.39	11	2,504.31	11	2,867.16	11	3,229.94	11	3,592.73
1/4	336.74	1/4	699.65	1/4	1,061.55	1/4	1,423.10	1/4	1,786.03	1/4	2,148.95	1/4	2,511.87	1/4	2,874.71	1/4	3,237.50	1/4	3,600.29
1/2	344.30	1/2	707.21	1/2	1,069.06	1/2	1,430.66	1/2	1,793.59	1/2	2,156.51	1/2	2,519.43	1/2	2,882.27	1/2	3,245.06	1/2	3,607.85
3/4	351.86	3/4	714.77	3/4	1,076.57	3/4	1,438.23	3/4	1,801.15	3/4	2,164.07	3/4	2,526.99	3/4	2,889.83	3/4	3,252.62	3/4	3,615.41

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT & ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588  
http://www.pmaacorp.net

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF "HERMETIC" CLOSED GAUGING VALVE.  
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.



# BARGE "CBR 2022"

1 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0																		
0	3,622.97	1/4	3,985.75	1/4	4,348.54	1/4	4,711.33	1/4	5,072.65	1/4	5,432.97	1/4	5,792.65	1/4	6,151.33	1/4	6,508.54	1/4	6,864.54
1/4	3,630.52	1/2	3,993.31	1/2	4,356.10	1/2	4,718.89	1/2	5,080.11	1/2	5,440.52	1/2	5,800.11	1/2	6,159.33	1/2	6,517.54	1/2	6,874.54
1/2	3,638.08	3/4	4,000.87	3/4	4,363.66	3/4	4,726.45	3/4	5,087.57	3/4	5,447.57	3/4	5,807.57	3/4	6,166.66	3/4	6,525.10	3/4	6,882.54
3/4	3,645.64	1	4,008.43	1	4,371.22	1	4,734.01	1	5,095.03	1	5,454.52	1	5,813.52	1	6,171.52	1	6,529.52	1	6,886.54
1	3,653.20	1/4	4,015.99	1/4	4,378.78	1/4	4,741.56	1/4	5,102.49	1/4	5,461.52	1/4	5,820.52	1/4	6,178.52	1/4	6,536.52	1/4	6,894.54
1/4	3,660.76	1/2	4,023.55	1/2	4,386.33	1/2	4,749.10	1/2	5,109.95	1/2	5,468.52	1/2	5,827.52	1/2	6,185.52	1/2	6,543.52	1/2	6,901.54
1/2	3,668.31	3/4	4,031.10	3/4	4,393.89	3/4	4,756.64	3/4	5,117.41	3/4	5,475.52	3/4	5,833.52	3/4	6,191.52	3/4	6,549.52	3/4	6,906.54
3/4	3,675.87	1	4,038.66	1	4,401.45	1	4,764.18	1	5,124.87	1	5,482.52	1	5,840.52	1	6,197.52	1	6,554.52	1	6,910.54
1	3,683.43	1/4	4,046.22	1/4	4,409.01	1/4	4,771.71	1/4	5,132.33	1/4	5,490.52	1/4	5,848.52	1/4	6,203.52	1/4	6,560.52	1/4	6,915.54
1/4	3,690.99	1/2	4,053.78	1/2	4,416.57	1/2	4,778.77	1/2	5,147.25	1/2	5,505.52	1/2	5,863.52	1/2	6,217.52	1/2	6,574.52	1/2	6,926.54
1/2	3,698.55	3/4	4,061.34	3/4	4,424.12	3/4	4,786.77	3/4	5,154.71	3/4	5,512.52	3/4	5,870.52	3/4	6,227.52	3/4	6,584.52	3/4	6,937.54
3/4	3,706.10	1	4,068.89	1	4,431.68	1	4,794.30	1	5,154.71	1	5,512.52	1	5,870.52	1	6,227.52	1	6,584.52	1	6,937.54
1	3,713.66	1/4	4,076.45	1/4	4,439.24	1/4	4,801.83	1/4	5,162.17	1/4	5,520.52	1/4	5,877.52	1/4	6,235.52	1/4	6,592.52	1/4	6,946.54
1/4	3,721.22	1/2	4,084.01	1/2	4,446.80	1/2	4,809.36	1/2	5,169.63	1/2	5,527.52	1/2	5,884.52	1/2	6,241.52	1/2	6,600.52	1/2	6,954.54
1/2	3,728.78	3/4	4,091.57	3/4	4,454.36	3/4	4,816.89	3/4	5,177.09	3/4	5,535.52	3/4	5,892.52	3/4	6,247.52	3/4	6,607.52	3/4	6,961.54
3/4	3,736.34	1	4,099.13	1	4,461.91	1	4,824.42	1	5,184.55	1	5,542.52	1	5,898.52	1	6,253.52	1	6,613.52	1	6,967.54
1	3,743.90	1/4	4,106.68	1/4	4,469.47	1/4	4,831.95	1/4	5,192.01	1/4	5,550.52	1/4	5,906.52	1/4	6,259.52	1/4	6,619.52	1/4	6,973.54
1/4	3,751.45	1/2	4,114.24	1/2	4,477.03	1/2	4,839.48	1/2	5,199.47	1/2	5,557.52	1/2	5,913.52	1/2	6,265.52	1/2	6,625.52	1/2	6,979.54
1/2	3,759.01	3/4	4,121.80	3/4	4,484.59	3/4	4,847.00	3/4	5,206.93	3/4	5,564.52	3/4	5,919.52	3/4	6,271.52	3/4	6,631.52	3/4	6,985.54
3/4	3,766.57	1	4,129.36	1	4,492.15	1	4,854.53	1	5,214.39	1	5,572.52	1	5,925.52	1	6,277.52	1	6,637.52	1	6,989.54
1	3,774.13	1/4	4,136.92	1/4	4,499.71	1/4	4,862.06	1/4	5,221.85	1/4	5,580.52	1/4	5,931.52	1/4	6,283.52	1/4	6,643.52	1/4	6,995.54
1/4	3,781.69	1/2	4,144.47	1/2	4,507.26	1/2	4,869.59	1/2	5,228.75	1/2	5,587.52	1/2	5,937.52	1/2	6,289.52	1/2	6,649.52	1/2	6,999.54
1/2	3,789.24	3/4	4,152.03	3/4	4,514.82	3/4	4,877.12	3/4	5,235.66	3/4	5,594.52	3/4	5,943.52	3/4	6,295.52	3/4	6,655.52	3/4	7,003.54
3/4	3,796.80	1	4,159.59	1	4,522.38	1	4,884.65	1	5,242.57	1	5,600.52	1	5,949.52	1	6,301.52	1	6,661.52	1	7,009.54
1	3,804.36	1/4	4,167.15	1/4	4,529.94	1/4	4,892.18	1/4	5,249.48	1/4	5,607.52	1/4	5,954.52	1/4	6,307.52	1/4	6,667.52	1/4	7,015.54
1/4	3,811.92	1/2	4,174.71	1/2	4,537.50	1/2	4,899.71	1/2	5,255.21	1/2	5,613.52	1/2	5,959.52	1/2	6,313.52	1/2	6,673.52	1/2	7,021.54
1/2	3,819.48	3/4	4,182.27	3/4	4,545.05	3/4	4,907.24	3/4	5,260.93	3/4	5,619.52	3/4	5,965.52	3/4	6,319.52	3/4	6,679.52	3/4	7,027.54
3/4	3,827.03	1	4,189.82	1	4,552.61	1	4,914.77	1	5,266.66	1	5,625.52	1	5,971.52	1	6,325.52	1	6,685.52	1	7,033.54
1	3,834.59	1/4	4,197.38	1/4	4,560.17	1/4	4,922.29	1/4	5,272.39	1/4	5,631.52	1/4	5,977.52	1/4	6,331.52	1/4	6,691.52	1/4	7,039.54
1/4	3,842.15	1/2	4,204.94	1/2	4,567.73	1/2	4,929.82	1/2	5,276.88	1/2	5,637.52	1/2	5,983.52	1/2	6,337.52	1/2	6,697.52	1/2	7,045.54
1/2	3,849.71	3/4	4,212.50	3/4	4,575.29	3/4	4,937.35	3/4	5,281.37	3/4	5,643.52	3/4	5,989.52	3/4	6,343.52	3/4	6,703.52	3/4	7,051.54
3/4	3,857.27	1	4,220.06	1	4,582.84	1	4,944.88	1	5,285.86	1	5,649.52	1	5,995.52	1	6,349.52	1	6,709.52	1	7,057.54
1	3,864.82	1/4	4,227.61	1/4	4,590.40	1/4	4,952.41	1/4	5,290.35	1/4	5,655.52	1/4	5,999.52	1/4	6,355.52	1/4	6,715.52	1/4	7,063.54
1/4	3,872.38	1/2	4,235.17	1/2	4,597.96	1/2	4,959.94	1/2	5,294.84	1/2	5,661.52	1/2	6,005.52	1/2	6,361.52	1/2	6,721.52	1/2	7,069.54
1/2	3,879.94	3/4	4,242.73	3/4	4,605.52	3/4	4,967.47	3/4	5,299.33	3/4	5,667.52	3/4	6,011.52	3/4	6,367.52	3/4	6,727.52	3/4	7,075.54
3/4	3,887.50	1	4,250.29	1	4,613.08	1	4,975.00	1	5,303.82	1	5,673.52	1	6,017.52	1	6,373.52	1	6,733.52	1	7,081.54
1	3,895.06	1/4	4,257.85	1/4	4,620.63	1/4	4,982.53	1/4	5,308.31	1/4	5,679.52	1/4	6,023.52	1/4	6,379.52	1/4	6,739.52	1/4	7,087.54
1/4	3,902.62	1/2	4,265.40	1/2	4,628.19	1/2	4,990.06	1/2	5,312.80	1/2	5,685.52	1/2	6,029.52	1/2	6,385.52	1/2	6,745.52	1/2	7,093.54
1/2	3,910.17	3/4	4,272.96	3/4	4,635.75	3/4	4,997.59	3/4	5,317.29	3/4	5,691.52	3/4	6,035.52	3/4	6,391.52	3/4	6,751.52	3/4	7,099.54
3/4	3,917.73	1	4,280.52	1	4,643.31	1	5,005.12	1	5,321.78	1	5,697.52	1	6,041.52	1	6,397.52	1	6,757.52	1	7,105.54
1	3,925.29	1/4	4,288.08	1/4	4,650.87	1/4	5,012.65	1/4	5,326.27	1/4	5,703.52	1/4	6,047.52	1/4	6,403.52	1/4	6,763.52	1/4	7,111.54
1/4	3,932.85	1/2	4,295.64	1/2	4,658.43	1/2	5,020.18	1/2	5,330.76	1/2	5,709.52	1/2	6,053.52	1/2	6,409.52	1/2	6,769.52	1/2	7,117.54
1/2	3,940.41	3/4	4,303.19	3/4	4,665.98	3/4	5,027.71	3/4	5,335.25	3/4	5,715.52	3/4	6,059.52	3/4	6,415.52	3/4	6,775.52	3/4	7,123.54
3/4	3,947.96	1	4,310.75	1	4,673.54	1	5,035.25	1	5,339.74	1	5,721.52	1	6,065.52	1	6,421.52	1	6,781.52	1	7,129.54
1	3,955.52	1/4	4,318.31	1/4	4,681.10	1/4	5,042.78	1/4	5,344.23	1/4	5,727.52	1/4	6,071.52	1/4	6,427.52	1/4	6,787.52	1/4	7,135.54
1/4	3,963.08	1/2	4,325.87	1/2	4,688.66	1/2	5,050.25	1/2	5,348.72	1/2	5,733.52	1/2	6,077.52	1/2	6,433.52	1/2	6,793.52	1/2	7,141.54
1/2	3,970.64	3/4	4,333.43	3/4	4,696.22	3/4	5,057.72	3/4	5,353.21	3/4	5,739.52	3/4	6,083.52	3/4	6,439.52	3/4	6,799.52	3/4	7,147.54
3/4	3,978.20	1	4,340.99	1	4,703.77	1	5,065.18	1	5,357.70	1	5,745.52	1	6,089.52	1	6,445.52	1	6,805.52	1	7,153.54

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/05/2013 CL  
 CALCULATED: 09/05/2013 SW  
 PRINTED: 09/06/2013 SW  
 CANCELS AND SUPERCEDES  
 ALL PRIOR TO 09/2013

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

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# BARGE "CBR 2022"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS												GAUGE HEIGHT 15'-07 1/2"																											
0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.																				
0	21.31	0	357.83	0	719.14	0	1,080.20	0	1,441.27	0	1,802.59	0	2,163.91	0	2,525.23	0	2,886.43	0	3,247.62	0	21.31	0	357.83	0	719.14	0	1,080.20	0	1,441.27	0	1,802.59	0	2,163.91	0	2,525.23	0	2,886.43	0	3,247.62
1/4	25.55	1/4	365.36	1/4	726.66	1/4	1,087.72	1/4	1,448.79	1/4	1,810.11	1/4	2,171.43	1/4	2,532.75	1/4	2,894.07	1/4	3,255.39	1/4	25.55	1/4	365.36	1/4	726.66	1/4	1,087.72	1/4	1,448.79	1/4	1,810.11	1/4	2,171.43	1/4	2,532.75	1/4	2,894.07	1/4	3,255.39
1/2	29.78	1/2	372.89	1/2	734.17	1/2	1,095.23	1/2	1,456.32	1/2	1,817.64	1/2	2,178.96	1/2	2,540.28	1/2	2,901.60	1/2	3,262.92	1/2	29.78	1/2	372.89	1/2	734.17	1/2	1,095.23	1/2	1,456.32	1/2	1,817.64	1/2	2,178.96	1/2	2,540.28	1/2	2,901.60	1/2	3,262.92
3/4	34.01	3/4	380.41	3/4	741.72	3/4	1,102.75	3/4	1,463.85	3/4	1,825.17	3/4	2,186.49	3/4	2,547.81	3/4	2,909.13	3/4	3,270.45	3/4	34.01	3/4	380.41	3/4	741.72	3/4	1,102.75	3/4	1,463.85	3/4	1,825.17	3/4	2,186.49	3/4	2,547.81	3/4	2,909.13	3/4	3,270.45
1	38.24	1	387.94	1	749.25	1	1,110.26	1	1,471.38	1	1,832.70	1	2,194.02	1	2,555.34	1	2,916.66	1	3,277.98	1	38.24	1	387.94	1	749.25	1	1,110.26	1	1,471.38	1	1,832.70	1	2,194.02	1	2,555.34	1	2,916.66	1	3,277.98
1 1/4	43.73	1 1/4	395.47	1 1/4	756.77	1 1/4	1,117.78	1 1/4	1,478.90	1 1/4	1,840.22	1 1/4	2,201.54	1 1/4	2,562.86	1 1/4	2,924.06	1 1/4	3,285.24	1 1/4	43.73	1 1/4	395.47	1 1/4	756.77	1 1/4	1,117.78	1 1/4	1,478.90	1 1/4	1,840.22	1 1/4	2,201.54	1 1/4	2,562.86	1 1/4	2,924.06	1 1/4	3,285.24
1 1/2	49.22	1 1/2	402.99	1 1/2	764.30	1 1/2	1,125.29	1 1/2	1,486.43	1 1/2	1,847.75	1 1/2	2,209.07	1 1/2	2,570.39	1 1/2	2,931.58	1 1/2	3,292.77	1 1/2	49.22	1 1/2	402.99	1 1/2	764.30	1 1/2	1,125.29	1 1/2	1,486.43	1 1/2	1,847.75	1 1/2	2,209.07	1 1/2	2,570.39	1 1/2	2,931.58	1 1/2	3,292.77
1 3/4	54.71	1 3/4	410.52	1 3/4	771.83	1 3/4	1,132.81	1 3/4	1,493.96	1 3/4	1,855.28	1 3/4	2,216.60	1 3/4	2,577.92	1 3/4	2,938.11	1 3/4	3,300.29	1 3/4	54.71	1 3/4	410.52	1 3/4	771.83	1 3/4	1,132.81	1 3/4	1,493.96	1 3/4	1,855.28	1 3/4	2,216.60	1 3/4	2,577.92	1 3/4	2,938.11	1 3/4	3,300.29
2	60.20	2	418.05	2	779.35	2	1,140.32	2	1,501.49	2	1,862.81	2	2,224.13	2	2,585.45	2	2,946.63	2	3,307.82	2	60.20	2	418.05	2	779.35	2	1,140.32	2	1,501.49	2	1,862.81	2	2,224.13	2	2,585.45	2	2,946.63	2	3,307.82
2 1/4	66.94	2 1/4	425.58	2 1/4	786.88	2 1/4	1,147.84	2 1/4	1,509.01	2 1/4	1,870.33	2 1/4	2,231.65	2 1/4	2,592.97	2 1/4	2,954.16	2 1/4	3,315.34	2 1/4	66.94	2 1/4	425.58	2 1/4	786.88	2 1/4	1,147.84	2 1/4	1,509.01	2 1/4	1,870.33	2 1/4	2,231.65	2 1/4	2,592.97	2 1/4	2,954.16	2 1/4	3,315.34
2 1/2	73.68	2 1/2	433.10	2 1/2	794.41	2 1/2	1,155.35	2 1/2	1,516.54	2 1/2	1,877.86	2 1/2	2,239.18	2 1/2	2,600.50	2 1/2	2,961.68	2 1/2	3,322.87	2 1/2	73.68	2 1/2	433.10	2 1/2	794.41	2 1/2	1,155.35	2 1/2	1,516.54	2 1/2	1,877.86	2 1/2	2,239.18	2 1/2	2,600.50	2 1/2	2,961.68	2 1/2	3,322.87
2 3/4	80.42	2 3/4	440.63	2 3/4	801.94	2 3/4	1,162.87	2 3/4	1,524.07	2 3/4	1,885.39	2 3/4	2,246.71	2 3/4	2,608.03	2 3/4	2,969.21	2 3/4	3,330.39	2 3/4	80.42	2 3/4	440.63	2 3/4	801.94	2 3/4	1,162.87	2 3/4	1,524.07	2 3/4	1,885.39	2 3/4	2,246.71	2 3/4	2,608.03	2 3/4	2,969.21	2 3/4	3,330.39
3	87.17	3	448.16	3	809.46	3	1,170.38	3	1,531.60	3	1,892.92	3	2,254.24	3	2,615.56	3	2,976.73	3	3,337.92	3	87.17	3	448.16	3	809.46	3	1,170.38	3	1,531.60	3	1,892.92	3	2,254.24	3	2,615.56	3	2,976.73	3	3,337.92
3 1/4	94.61	3 1/4	455.68	3 1/4	816.99	3 1/4	1,177.90	3 1/4	1,539.12	3 1/4	1,900.44	3 1/4	2,261.76	3 1/4	2,623.08	3 1/4	2,984.25	3 1/4	3,345.44	3 1/4	94.61	3 1/4	455.68	3 1/4	816.99	3 1/4	1,177.90	3 1/4	1,539.12	3 1/4	1,900.44	3 1/4	2,261.76	3 1/4	2,623.08	3 1/4	2,984.25	3 1/4	3,345.44
3 1/2	102.06	3 1/2	463.21	3 1/2	824.52	3 1/2	1,185.41	3 1/2	1,546.65	3 1/2	1,907.97	3 1/2	2,269.29	3 1/2	2,630.60	3 1/2	2,991.78	3 1/2	3,352.96	3 1/2	102.06	3 1/2	463.21	3 1/2	824.52	3 1/2	1,185.41	3 1/2	1,546.65	3 1/2	1,907.97	3 1/2	2,269.29	3 1/2	2,630.60	3 1/2	2,991.78	3 1/2	3,352.96
3 3/4	109.51	3 3/4	470.74	3 3/4	832.04	3 3/4	1,192.93	3 3/4	1,554.18	3 3/4	1,915.50	3 3/4	2,276.82	3 3/4	2,638.12	3 3/4	2,999.30	3 3/4	3,360.49	3 3/4	109.51	3 3/4	470.74	3 3/4	832.04	3 3/4	1,192.93	3 3/4	1,554.18	3 3/4	1,915.50	3 3/4	2,276.82	3 3/4	2,638.12	3 3/4	2,999.30	3 3/4	3,360.49
4	116.96	4	478.27	4	839.57	4	1,200.44	4	1,561.71	4	1,923.03	4	2,284.35	4	2,645.64	4	2,999.30	4	3,368.01	4	116.96	4	478.27	4	839.57	4	1,200.44	4	1,561.71	4	1,923.03	4	2,284.35	4	2,645.64	4	2,999.30	4	3,368.01
4 1/4	124.49	4 1/4	485.79	4 1/4	847.10	4 1/4	1,207.96	4 1/4	1,569.23	4 1/4	1,930.55	4 1/4	2,291.87	4 1/4	2,653.17	4 1/4	3,004.35	4 1/4	3,375.54	4 1/4	124.49	4 1/4	485.79	4 1/4	847.10	4 1/4	1,207.96	4 1/4	1,569.23	4 1/4	1,930.55	4 1/4	2,291.87	4 1/4	2,653.17	4 1/4	3,004.35	4 1/4	3,375.54
4 1/2	132.02	4 1/2	493.32	4 1/2	854.63	4 1/2	1,215.47	4 1/2	1,576.76	4 1/2	1,938.08	4 1/2	2,299.40	4 1/2	2,660.69	4 1/2	3,012.88	4 1/2	3,383.06	4 1/2	132.02	4 1/2	493.32	4 1/2	854.63	4 1/2	1,215.47	4 1/2	1,576.76	4 1/2	1,938.08	4 1/2	2,299.40	4 1/2	2,660.69	4 1/2	3,012.88	4 1/2	3,383.06
4 3/4	139.54	4 3/4	500.85	4 3/4	862.15	4 3/4	1,222.99	4 3/4	1,584.29	4 3/4	1,945.61	4 3/4	2,306.93	4 3/4	2,668.22	4 3/4	3,020.90	4 3/4	3,390.59	4 3/4	139.54	4 3/4	500.85	4 3/4	862.15	4 3/4	1,222.99	4 3/4	1,584.29	4 3/4	1,945.61	4 3/4	2,306.93	4 3/4	2,668.22	4 3/4	3,020.90	4 3/4	3,390.59
5	147.07	5	508.38	5	869.68	5	1,230.50	5	1,591.82	5	1,953.14	5	2,314.46	5	2,675.74	5	3,036.93	5	3,398.11	5	147.07	5	508.38	5	869.68	5	1,230.50	5	1,591.82	5	1,953.14	5	2,314.46	5	2,675.74	5	3,036.93	5	3,398.11
5 1/4	154.60	5 1/4	515.90	5 1/4	877.21	5 1/4	1,238.03	5 1/4	1,599.34	5 1/4	1,960.66	5 1/4	2,321.98	5 1/4	2,683.27	5 1/4	3,044.45	5 1/4	3,405.64	5 1/4	154.60	5 1/4	515.90	5 1/4	877.21	5 1/4	1,238.03	5 1/4	1,599.34	5 1/4	1,960.66	5 1/4	2,321.98	5 1/4	2,683.27	5 1/4	3,044.45	5 1/4	3,405.64
5 1/2	162.12	5 1/2	523.43	5 1/2	884.74	5 1/2	1,245.56	5 1/2	1,606.87	5 1/2	1,968.19	5 1/2	2,329.51	5 1/2	2,690.79	5 1/2	3,051.98	5 1/2	3,413.16	5 1/2	162.12	5 1/2	523.43	5 1/2	884.74	5 1/2	1,245.56	5 1/2	1,606.87	5 1/2	1,968.19	5 1/2	2,329.51	5 1/2	2,690.79	5 1/2	3,051.98	5 1/2	3,413.16
5 3/4	169.65	5 3/4	530.96	5 3/4	892.26	5 3/4	1,253.08	5 3/4	1,614.40	5 3/4	1,975.72	5 3/4	2,337.04	5 3/4	2,698.32	5 3/4	3,059.50	5 3/4	3,420.69	5 3/4	169.65	5 3/4	530.96	5 3/4	892.26	5 3/4	1,253.08	5 3/4	1,614.40	5 3/4	1,975.72	5 3/4	2,337.04	5 3/4	2,698.32	5 3/4	3,059.50	5 3/4	3,420.69
6	177.18	6	538.48	6	899.79	6	1,260.61	6	1,622.93	6	1,983.25	6	2,344.59	6	2,705.84	6	3,067.05	6	3,428.21	6	177.18	6	538.48	6	899.79	6	1,260.61	6	1,622.93	6	1,983.25	6	2,344.59	6	2,705.84	6	3,067.05	6	3,428.21
6 1/4	184.71	6 1/4	546.01	6 1/4	907.32	6 1/4	1,268.13	6 1/4	1,631.45	6 1/4	1,990.77	6 1/4	2,352.07	6 1/4	2,713.37	6 1/4	3,074.55	6 1/4	3,435.74	6 1/4	184.71	6 1/4	546.01	6 1/4	907.32	6 1/4	1,268.13	6 1/4	1,631.45	6 1/4	1,990.77	6 1/4	2,352.07	6 1/4	2,713.37	6 1/4	3,074.55	6 1/4	3,435.74
6 1/2	192.23	6 1/2	553.54	6 1/2	914.84	6 1/2	1,275.66	6 1/2	1,636.98	6 1/2	1,998.30	6 1/2	2,359.62	6 1/2	2,720.89	6 1/2	3,082.08	6 1/2	3,443.26	6 1/2	192.23	6 1/2	553.54	6 1/2	914.84	6 1/2	1,275.66	6 1/2	1,636.98	6 1/2	1,998.30	6 1/2	2,359.62	6 1/2	2,720.89	6 1/2	3,082.08	6 1/2	3,443.26
6 3/4	199.76	6 3/4	561.07	6 3/4	922.37	6 3/4	1,283.19	6 3/4	1,644.51	6 3/4	2,005.83	6 3/4	2,367.15	6 3/4	2,728.41	6 3/4	3,089.60	6 3/4	3,450.79	6 3/4	199.76	6 3/4	561.07	6 3/4	922.37	6 3/4	1,283.19	6 3/4	1,644.51	6 3/4									



# BARGE "CBR 2022"

2 PORT  
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS		GAUGE HEIGHT 15'-07 1/2"								
IN	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	3,608.80	3,969.99	4,331.18	4,692.36	5,052.04	5,412.72	5,772.40	6,132.08	6,491.76	6,851.44
1/4	3,616.33	3,977.51	4,338.70	4,699.89	5,059.47	5,419.05	5,778.63	6,138.21	6,497.79	6,857.37
1/2	3,623.85	3,984.04	4,346.23	4,707.41	5,066.90	5,426.38	5,785.86	6,145.34	6,504.82	6,864.30
3/4	3,631.38	3,992.56	4,353.75	4,714.94	5,074.32	5,433.73	5,793.14	6,152.65	6,512.17	6,871.69
1	3,638.90	4,000.09	4,361.27	4,722.46	5,081.75	5,440.54	5,800.02	6,159.56	6,519.04	6,878.52
1/4	3,646.43	4,007.61	4,368.80	4,729.96	5,089.17	5,447.95	5,807.43	6,166.97	6,526.45	6,885.94
1/2	3,653.95	4,015.14	4,376.32	4,737.45	5,096.60	5,455.36	5,814.84	6,174.38	6,533.88	6,893.36
3/4	3,661.48	4,022.66	4,383.85	4,744.95	5,104.03	5,462.77	5,822.23	6,181.81	6,541.31	6,900.79
2	3,669.00	4,030.19	4,391.37	4,752.44	5,111.45	5,470.18	5,829.62	6,189.24	6,548.74	6,908.21
1/4	3,676.53	4,037.71	4,398.90	4,759.94	5,118.88	5,477.59	5,837.03	6,196.67	6,556.17	6,915.64
1/2	3,684.05	4,045.24	4,406.42	4,767.43	5,126.31	5,485.01	5,844.44	6,204.10	6,563.60	6,923.06
3/4	3,691.58	4,052.76	4,413.95	4,774.93	5,133.73	5,492.42	5,851.86	6,211.53	6,571.03	6,930.49
3	3,699.10	4,060.29	4,421.47	4,782.43	5,141.16	5,500.57	5,859.27	6,218.96	6,578.46	6,937.92
1/4	3,706.63	4,067.81	4,429.00	4,789.92	5,148.59	5,507.99	5,866.68	6,226.39	6,585.89	6,945.35
1/2	3,714.15	4,075.34	4,436.52	4,797.42	5,156.01	5,515.41	5,874.09	6,233.82	6,593.32	6,952.78
3/4	3,721.67	4,082.86	4,444.05	4,804.91	5,163.44	5,522.83	5,881.50	6,241.25	6,600.75	6,960.21
4	3,729.20	4,090.39	4,451.57	4,812.41	5,170.87	5,530.25	5,888.91	6,248.68	6,608.18	6,967.64
1/4	3,736.72	4,097.91	4,459.10	4,819.90	5,178.29	5,537.67	5,896.32	6,256.11	6,615.61	6,975.07
1/2	3,744.25	4,105.43	4,466.62	4,827.40	5,185.72	5,545.09	5,903.73	6,263.54	6,623.04	6,982.50
3/4	3,751.77	4,112.96	4,474.14	4,834.90	5,193.14	5,552.51	5,911.14	6,270.97	6,630.47	6,989.93
5	3,759.30	4,120.48	4,481.67	4,842.39	5,200.57	5,559.93	5,918.55	6,278.40	6,637.90	6,997.36
1/4	3,766.82	4,128.01	4,489.19	4,849.89	5,207.45	5,567.35	5,925.96	6,285.83	6,645.33	7,004.79
1/2	3,774.35	4,135.53	4,496.72	4,857.38	5,214.32	5,574.77	5,933.37	6,293.26	6,652.76	7,012.22
3/4	3,781.87	4,143.06	4,504.24	4,864.88	5,221.20	5,582.19	5,940.79	6,300.69	6,660.19	7,019.65
6	3,789.40	4,150.58	4,511.77	4,872.37	5,228.08	5,589.61	5,948.20	6,308.12	6,667.62	7,027.08
1/4	3,796.92	4,158.11	4,519.29	4,879.87	5,235.48	5,597.03	5,955.62	6,315.55	6,675.05	7,034.51
1/2	3,804.45	4,165.63	4,526.82	4,887.36	5,242.86	5,604.45	5,963.03	6,322.98	6,682.48	7,041.94
3/4	3,811.97	4,173.16	4,534.34	4,894.86	5,250.28	5,611.87	5,970.44	6,330.41	6,689.91	7,049.37
7	3,819.50	4,180.68	4,541.87	4,902.36	5,257.70	5,619.29	5,977.85	6,337.84	6,697.34	7,056.80
1/4	3,827.02	4,188.21	4,549.39	4,909.85	5,265.13	5,626.71	5,985.26	6,345.27	6,704.77	7,064.23
1/2	3,834.55	4,195.73	4,556.92	4,917.35	5,272.55	5,634.13	5,992.67	6,352.70	6,712.20	7,071.66
3/4	3,842.07	4,203.26	4,564.44	4,924.84	5,280.00	5,641.55	6,000.08	6,360.13	6,719.63	7,079.09
8	3,849.59	4,210.78	4,571.97	4,932.34	5,287.42	5,648.97	6,007.49	6,367.56	6,727.06	7,086.52
1/4	3,857.12	4,218.31	4,579.49	4,939.83	5,294.85	5,656.39	6,014.90	6,375.00	6,734.49	7,093.95
1/2	3,864.64	4,225.83	4,587.02	4,947.33	5,302.27	5,663.81	6,022.31	6,382.43	6,741.92	7,101.38
3/4	3,872.17	4,233.35	4,594.54	4,954.82	5,309.70	5,671.23	6,029.72	6,389.86	6,749.35	7,108.81
9	3,879.69	4,240.88	4,602.06	4,962.32	5,317.12	5,678.65	6,037.13	6,397.29	6,756.78	7,116.24
1/4	3,887.22	4,248.40	4,609.59	4,969.82	5,324.55	5,686.07	6,044.54	6,404.72	6,764.21	7,123.67
1/2	3,894.74	4,255.93	4,617.11	4,977.32	5,331.97	5,693.49	6,051.95	6,412.15	6,771.64	7,131.10
3/4	3,902.27	4,263.45	4,624.64	4,984.81	5,339.40	5,700.91	6,059.36	6,419.58	6,779.07	7,138.53
10	3,909.79	4,270.98	4,632.16	4,992.31	5,346.82	5,708.33	6,066.77	6,427.01	6,786.50	7,145.96
1/4	3,917.32	4,278.50	4,639.69	4,999.81	5,354.25	5,715.75	6,074.18	6,434.44	6,793.93	7,153.39
1/2	3,924.84	4,286.03	4,647.21	5,007.31	5,361.67	5,723.17	6,081.59	6,441.87	6,801.36	7,160.82
3/4	3,932.37	4,293.55	4,654.74	5,014.80	5,369.10	5,730.59	6,089.00	6,449.30	6,808.79	7,168.25
11	3,939.89	4,301.08	4,662.26	5,022.30	5,376.52	5,738.01	6,096.41	6,456.73	6,816.22	7,175.68
1/4	3,947.42	4,308.60	4,669.79	5,029.74	5,383.95	5,745.43	6,103.82	6,464.16	6,823.65	7,183.11
1/2	3,954.94	4,316.13	4,677.31	5,037.17	5,391.38	5,752.85	6,111.23	6,471.59	6,831.08	7,190.54
3/4	3,962.47	4,323.65	4,684.84	5,044.61	5,398.80	5,760.27	6,118.64	6,479.02	6,838.51	7,197.97

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/05/2013 CL  
CALCULATED: 09/05/2013 SW  
PRINTED: 09/06/2013 SW  
CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P. O. Box 2092  
Pearland, Texas 77588  
http://www.pmacorp.net



# BARGE "CBR 2022"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	21.33	0	358.09	0	719.65	0	1,073.20	0	1,426.40	0	1,787.98	0	2,149.55	0	2,511.12	0	2,872.62	0	3,234.06
1/4	25.56	1/4	365.62	1/4	727.19	1/4	1,080.39	1/4	1,433.93	1/4	1,795.51	1/4	2,157.08	1/4	2,518.66	1/4	2,880.15	1/4	3,241.59
1/2	29.80	1/2	373.15	1/2	734.72	1/2	1,087.57	1/2	1,441.47	1/2	1,803.04	1/2	2,164.62	1/2	2,526.19	1/2	2,887.68	1/2	3,249.12
3/4	34.04	3/4	380.69	3/4	742.25	3/4	1,094.76	3/4	1,449.00	3/4	1,810.57	3/4	2,171.55	3/4	2,533.72	3/4	2,896.51	3/4	3,259.65
1	38.27	1	388.22	1	749.78	1	1,101.95	1	1,456.53	1	1,818.11	1	2,179.68	1	2,541.26	1	2,902.74	1	3,264.18
1/4	43.76	1/4	395.75	1/4	757.32	1/4	1,109.14	1/4	1,464.07	1/4	1,825.64	1/4	2,187.21	1/4	2,548.79	1/4	2,910.27	1/4	3,271.71
1/2	49.26	1/2	403.28	1/2	764.85	1/2	1,116.33	1/2	1,471.60	1/2	1,833.17	1/2	2,194.75	1/2	2,556.32	1/2	2,917.80	1/2	3,278.24
3/4	54.75	3/4	410.82	3/4	773.38	3/4	1,123.52	3/4	1,479.13	3/4	1,840.71	3/4	2,202.28	3/4	2,563.85	3/4	2,925.33	3/4	3,285.77
2	60.24	2	418.35	2	779.91	2	1,130.71	2	1,486.66	2	1,848.24	2	2,209.81	2	2,571.39	2	2,932.86	2	3,294.30
1/4	66.99	1/4	425.88	1/4	787.45	1/4	1,137.90	1/4	1,494.20	1/4	1,855.77	1/4	2,217.35	1/4	2,578.92	1/4	2,939.99	1/4	3,301.83
1/2	73.73	1/2	433.41	1/2	794.98	1/2	1,145.09	1/2	1,501.73	1/2	1,863.30	1/2	2,224.88	1/2	2,586.45	1/2	2,947.92	1/2	3,309.36
3/4	80.48	3/4	440.95	3/4	802.51	3/4	1,152.28	3/4	1,509.26	3/4	1,870.84	3/4	2,232.41	3/4	2,593.99	3/4	2,955.45	3/4	3,316.89
3	87.23	3	448.48	3	810.04	3	1,159.47	3	1,516.79	3	1,878.37	3	2,239.94	3	2,601.52	3	2,962.98	3	3,324.42
1/4	94.68	1/4	456.01	1/4	817.58	1/4	1,166.66	1/4	1,524.33	1/4	1,885.90	1/4	2,247.48	1/4	2,609.05	1/4	2,970.51	1/4	3,331.95
1/2	102.14	1/2	463.55	1/2	825.11	1/2	1,173.85	1/2	1,531.86	1/2	1,893.43	1/2	2,255.01	1/2	2,616.59	1/2	2,977.52	1/2	3,339.48
3/4	109.59	3/4	471.08	3/4	832.64	3/4	1,181.04	3/4	1,539.39	3/4	1,900.97	3/4	2,262.54	3/4	2,624.12	3/4	2,984.57	3/4	3,347.01
4	117.05	4	478.61	4	840.18	4	1,188.22	4	1,546.93	4	1,908.50	4	2,270.07	4	2,631.65	4	2,991.60	4	3,354.54
1/4	124.58	1/4	486.14	1/4	847.71	1/4	1,195.41	1/4	1,554.46	1/4	1,916.03	1/4	2,277.61	1/4	2,639.18	1/4	2,999.13	1/4	3,362.07
1/2	132.11	1/2	493.68	1/2	855.24	1/2	1,202.60	1/2	1,561.99	1/2	1,923.57	1/2	2,285.14	1/2	2,646.71	1/2	2,996.66	1/2	3,369.60
3/4	139.64	3/4	501.21	3/4	862.77	3/4	1,209.79	3/4	1,569.52	3/4	1,931.10	3/4	2,292.67	3/4	2,654.24	3/4	2,999.13	3/4	3,377.13
5	147.18	5	508.74	5	870.31	5	1,216.98	5	1,577.06	5	1,938.63	5	2,300.21	5	2,661.77	5	3,003.22	5	3,384.66
1/4	154.71	1/4	516.27	1/4	877.84	1/4	1,224.18	1/4	1,584.59	1/4	1,946.16	1/4	2,307.74	1/4	2,669.30	1/4	3,010.75	1/4	3,392.19
1/2	162.24	1/2	523.81	1/2	885.37	1/2	1,231.38	1/2	1,592.12	1/2	1,953.70	1/2	2,315.27	1/2	2,676.83	1/2	2,999.28	1/2	3,399.72
3/4	169.77	3/4	531.34	3/4	892.90	3/4	1,238.58	3/4	1,599.66	3/4	1,961.23	3/4	2,322.80	3/4	2,684.36	3/4	3,005.81	3/4	3,407.25
6	177.31	6	538.87	6	900.44	6	1,245.78	6	1,607.19	6	1,968.76	6	2,330.34	6	2,691.89	6	2,999.28	6	3,414.78
1/4	184.84	1/4	546.40	1/4	907.68	1/4	1,253.27	1/4	1,614.72	1/4	1,976.30	1/4	2,337.87	1/4	2,699.42	1/4	2,999.28	1/4	3,422.31
1/2	192.37	1/2	553.94	1/2	914.92	1/2	1,260.76	1/2	1,622.25	1/2	1,983.83	1/2	2,345.40	1/2	2,706.95	1/2	3,008.40	1/2	3,429.84
3/4	199.90	3/4	561.47	3/4	922.16	3/4	1,268.25	3/4	1,629.79	3/4	1,991.36	3/4	2,352.94	3/4	2,714.48	3/4	3,015.93	3/4	3,437.37
7	207.44	7	569.00	7	929.40	7	1,275.75	7	1,637.32	7	1,998.89	7	2,360.47	7	2,722.01	7	3,023.46	7	3,444.90
1/4	214.97	1/4	576.53	1/4	936.59	1/4	1,283.28	1/4	1,644.85	1/4	2,006.43	1/4	2,368.00	1/4	2,729.54	1/4	3,030.99	1/4	3,452.43
1/2	222.50	1/2	584.07	1/2	943.79	1/2	1,290.81	1/2	1,652.39	1/2	2,013.96	1/2	2,375.53	1/2	2,737.07	1/2	3,038.52	1/2	3,459.96
3/4	230.03	3/4	591.60	3/4	950.98	3/4	1,298.34	3/4	1,659.92	3/4	2,021.49	3/4	2,383.07	3/4	2,744.60	3/4	3,046.05	3/4	3,467.49
8	237.57	8	598.13	8	958.17	8	1,305.88	8	1,667.45	8	2,029.03	8	2,390.60	8	2,752.13	8	3,053.58	8	3,475.02
1/4	245.10	1/4	606.66	1/4	965.66	1/4	1,313.41	1/4	1,674.98	1/4	2,036.56	1/4	2,398.13	1/4	2,759.66	1/4	3,061.11	1/4	3,482.55
1/2	252.63	1/2	614.20	1/2	972.55	1/2	1,320.94	1/2	1,682.52	1/2	2,044.09	1/2	2,405.67	1/2	2,767.19	1/2	3,068.64	1/2	3,490.08
3/4	260.17	3/4	621.73	3/4	979.74	3/4	1,328.47	3/4	1,690.05	3/4	2,051.62	3/4	2,413.20	3/4	2,774.72	3/4	3,076.17	3/4	3,497.61
9	267.70	9	629.26	9	986.92	9	1,336.01	9	1,697.58	9	2,059.16	9	2,420.73	9	2,782.25	9	3,083.70	9	3,505.14
1/4	275.23	1/4	636.80	1/4	994.14	1/4	1,343.54	1/4	1,705.11	1/4	2,066.69	1/4	2,428.26	1/4	2,789.78	1/4	3,091.23	1/4	3,512.67
1/2	282.76	1/2	644.33	1/2	1,001.30	1/2	1,351.07	1/2	1,712.65	1/2	2,074.22	1/2	2,435.80	1/2	2,797.31	1/2	3,098.76	1/2	3,520.20
3/4	290.30	3/4	651.86	3/4	1,008.49	3/4	1,358.61	3/4	1,720.18	3/4	2,081.75	3/4	2,443.33	3/4	2,804.84	3/4	3,106.29	3/4	3,527.73
10	297.83	10	659.39	10	1,015.68	10	1,366.14	10	1,727.71	10	2,089.29	10	2,450.86	10	2,812.37	10	3,113.82	10	3,535.26
1/4	305.36	1/4	666.93	1/4	1,022.87	1/4	1,373.67	1/4	1,735.25	1/4	2,096.82	1/4	2,458.39	1/4	2,819.90	1/4	3,121.35	1/4	3,542.79
1/2	312.89	1/2	674.46	1/2	1,030.06	1/2	1,381.20	1/2	1,742.78	1/2	2,104.35	1/2	2,465.93	1/2	2,827.43	1/2	3,128.88	1/2	3,550.32
3/4	320.43	3/4	681.99	3/4	1,037.25	3/4	1,388.74	3/4	1,750.31	3/4	2,111.92	3/4	2,473.46	3/4	2,834.97	3/4	3,136.41	3/4	3,557.85
11	327.96	11	689.52	11	1,044.44	11	1,396.27	11	1,757.84	11	2,119.42	11	2,480.99	11	2,842.50	11	3,143.94	11	3,565.38
1/4	335.49	1/4	697.06	1/4	1,051.63	1/4	1,403.80	1/4	1,765.38	1/4	2,126.95	1/4	2,488.53	1/4	2,850.03	1/4	3,151.47	1/4	3,572.91
1/2	343.02	1/2	704.59	1/2	1,058.82	1/2	1,411.34	1/2	1,772.91	1/2	2,134.48	1/2	2,496.06	1/2	2,857.56	1/2	3,159.00	1/2	3,580.44
3/4	350.56	3/4	712.12	3/4	1,066.01	3/4	1,418.87	3/4	1,780.44	3/4	2,142.02	3/4	2,503.59	3/4	2,865.09	3/4	3,166.53	3/4	3,587.98

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH IMPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF "HERMETIC" CLOSED GAUGING VALVE.  
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588  
http://www.pmao.com



# BARGE "CBR 2022"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 1/2"

IN	10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
	IN	IN																		
0	3,595.51	0	3,956.95	0	4,318.39	0	4,679.84	0	5,039.79	0	5,407.23	0	5,774.67	0	6,142.11	0	6,507.55	0	6,872.99	0
1/4	3,603.04	1/4	3,964.48	1/4	4,325.92	1/4	4,687.37	1/4	5,047.82	1/4	5,408.27	1/4	5,768.72	1/4	6,129.17	1/4	6,489.62	1/4	6,850.07	1/4
1/2	3,610.57	1/2	3,971.01	1/2	4,336.45	1/2	4,697.90	1/2	5,058.36	1/2	5,418.81	1/2	5,779.27	1/2	6,139.72	1/2	6,500.17	1/2	6,860.62	1/2
3/4	3,618.10	3/4	3,979.54	3/4	4,340.99	3/4	4,702.43	3/4	5,062.09	3/4	5,422.54	3/4	5,783.00	3/4	6,143.45	3/4	6,503.90	3/4	6,864.35	3/4
1	3,625.63	1	3,987.07	1	4,348.52	1	4,709.96	1	5,070.52	1	5,431.07	1	5,791.53	1	6,151.98	1	6,512.44	1	6,872.89	1
1/4	3,633.16	1/4	3,994.60	1/4	4,356.05	1/4	4,717.46	1/4	5,076.95	1/4	5,438.46	1/4	5,798.92	1/4	6,159.37	1/4	6,519.83	1/4	6,881.28	1/4
1/2	3,640.69	1/2	4,002.13	1/2	4,363.58	1/2	4,724.97	1/2	5,088.38	1/2	5,445.83	1/2	5,807.29	1/2	6,166.74	1/2	6,526.20	1/2	6,892.65	1/2
3/4	3,648.22	3/4	4,009.66	3/4	4,371.11	3/4	4,732.47	3/4	5,091.82	3/4	5,448.23	3/4	5,809.69	3/4	6,173.10	3/4	6,531.56	3/4	6,899.10	3/4
2	3,655.75	2	4,017.19	2	4,378.64	2	4,739.98	2	5,099.25	2	5,454.61	2	5,811.07	2	6,178.48	2	6,536.94	2	6,904.54	2
1/4	3,663.28	1/4	4,024.72	1/4	4,386.17	1/4	4,747.48	1/4	5,106.68	1/4	5,460.06	1/4	5,816.52	1/4	6,183.89	1/4	6,541.35	1/4	6,909.99	1/4
1/2	3,670.81	1/2	4,032.25	1/2	4,393.70	1/2	4,754.98	1/2	5,114.11	1/2	5,465.49	1/2	5,821.93	1/2	6,190.26	1/2	6,546.72	1/2	6,915.52	1/2
3/4	3,678.34	3/4	4,039.78	3/4	4,401.23	3/4	4,762.48	3/4	5,121.54	3/4	5,470.95	3/4	5,827.77	3/4	6,195.69	3/4	6,551.16	3/4	6,920.71	3/4
3	3,685.87	3	4,047.31	3	4,408.76	3	4,769.98	3	5,128.98	3	5,478.39	3	5,835.21	3	6,200.62	3	6,556.03	3	6,925.25	3
1/4	3,693.40	1/4	4,054.84	1/4	4,416.29	1/4	4,777.48	1/4	5,136.41	1/4	5,485.80	1/4	5,842.02	1/4	6,205.53	1/4	6,560.95	1/4	6,930.37	1/4
1/2	3,700.93	1/2	4,062.37	1/2	4,423.82	1/2	4,784.98	1/2	5,143.84	1/2	5,493.21	1/2	5,849.42	1/2	6,210.34	1/2	6,565.26	1/2	6,935.69	1/2
3/4	3,708.46	3/4	4,069.90	3/4	4,431.35	3/4	4,792.48	3/4	5,151.27	3/4	5,498.64	3/4	5,854.85	3/4	6,215.26	3/4	6,569.59	3/4	6,940.02	3/4
4	3,715.99	4	4,077.43	4	4,438.88	4	4,799.99	4	5,158.70	4	5,503.05	4	5,859.26	4	6,220.17	4	6,573.52	4	6,944.56	4
1/4	3,723.52	1/4	4,084.96	1/4	4,446.41	1/4	4,807.49	1/4	5,166.13	1/4	5,507.48	1/4	5,862.69	1/4	6,224.62	1/4	6,577.97	1/4	6,949.00	1/4
1/2	3,731.05	1/2	4,092.49	1/2	4,453.94	1/2	4,814.99	1/2	5,173.57	1/2	5,512.90	1/2	5,867.11	1/2	6,229.07	1/2	6,582.41	1/2	6,953.43	1/2
3/4	3,738.58	3/4	4,100.02	3/4	4,461.47	3/4	4,822.49	3/4	5,181.00	3/4	5,518.23	3/4	5,871.54	3/4	6,233.50	3/4	6,586.85	3/4	6,957.86	3/4
5	3,746.11	5	4,107.55	5	4,469.00	5	4,829.99	5	5,188.43	5	5,522.76	5	5,876.17	5	6,237.95	5	6,591.30	5	6,962.27	5
1/4	3,753.64	1/4	4,115.08	1/4	4,476.53	1/4	4,837.49	1/4	5,195.31	1/4	5,527.19	1/4	5,880.62	1/4	6,242.40	1/4	6,595.74	1/4	6,966.71	1/4
1/2	3,761.17	1/2	4,122.61	1/2	4,484.06	1/2	4,844.99	1/2	5,202.19	1/2	5,531.62	1/2	5,884.93	1/2	6,246.84	1/2	6,600.18	1/2	6,971.14	1/2
3/4	3,768.70	3/4	4,130.14	3/4	4,491.59	3/4	4,852.49	3/4	5,209.07	3/4	5,536.05	3/4	5,889.36	3/4	6,251.28	3/4	6,604.62	3/4	6,975.58	3/4
6	3,776.23	6	4,137.67	6	4,499.12	6	4,859.99	6	5,215.96	6	5,540.99	6	5,894.30	6	6,255.72	6	6,608.16	6	6,979.62	6
1/4	3,783.76	1/4	4,145.20	1/4	4,506.65	1/4	4,867.49	1/4	5,221.86	1/4	5,545.43	1/4	5,898.74	1/4	6,260.16	1/4	6,612.60	1/4	6,983.06	1/4
1/2	3,791.29	1/2	4,152.73	1/2	4,514.18	1/2	4,875.00	1/2	5,227.37	1/2	5,549.87	1/2	5,903.18	1/2	6,264.60	1/2	6,616.04	1/2	6,987.50	1/2
3/4	3,798.82	3/4	4,160.26	3/4	4,521.71	3/4	4,882.50	3/4	5,233.07	3/4	5,554.30	3/4	5,907.62	3/4	6,269.04	3/4	6,619.48	3/4	6,991.94	3/4
7	3,806.35	7	4,167.79	7	4,529.24	7	4,890.00	7	5,238.77	7	5,558.74	7	5,911.04	7	6,273.48	7	6,623.92	7	6,995.88	7
1/4	3,813.88	1/4	4,175.32	1/4	4,536.77	1/4	4,897.50	1/4	5,243.26	1/4	5,563.18	1/4	5,915.48	1/4	6,277.92	1/4	6,627.36	1/4	7,000.32	1/4
1/2	3,821.41	1/2	4,182.85	1/2	4,544.30	1/2	4,905.00	1/2	5,247.72	1/2	5,567.60	1/2	5,919.90	1/2	6,282.36	1/2	6,631.80	1/2	7,004.76	1/2
3/4	3,828.94	3/4	4,190.38	3/4	4,551.83	3/4	4,912.50	3/4	5,252.20	3/4	5,572.02	3/4	5,924.32	3/4	6,286.80	3/4	6,635.24	3/4	7,009.20	3/4
8	3,836.47	8	4,197.91	8	4,559.36	8	4,920.00	8	5,256.67	8	5,576.44	8	5,928.74	8	6,291.24	8	6,639.68	8	7,013.64	8
1/4	3,844.00	1/4	4,205.44	1/4	4,566.89	1/4	4,927.50	1/4	5,261.10	1/4	5,580.86	1/4	5,933.16	1/4	6,295.68	1/4	6,644.12	1/4	7,018.08	1/4
1/2	3,851.53	1/2	4,212.97	1/2	4,574.42	1/2	4,935.00	1/2	5,265.52	1/2	5,585.28	1/2	5,937.60	1/2	6,300.12	1/2	6,648.56	1/2	7,022.52	1/2
3/4	3,859.06	3/4	4,220.50	3/4	4,581.95	3/4	4,942.50	3/4	5,269.94	3/4	5,589.70	3/4	5,941.04	3/4	6,304.56	3/4	6,652.00	3/4	7,026.96	3/4
9	3,866.59	9	4,228.03	9	4,589.48	9	4,950.01	9	5,274.36	9	5,594.12	9	5,945.48	9	6,308.00	9	6,656.44	9	7,031.40	9
1/4	3,874.12	1/4	4,235.56	1/4	4,597.01	1/4	4,957.51	1/4	5,278.78	1/4	5,598.54	1/4	5,949.92	1/4	6,312.44	1/4	6,660.88	1/4	7,035.84	1/4
1/2	3,881.65	1/2	4,243.09	1/2	4,604.54	1/2	4,965.01	1/2	5,283.20	1/2	5,602.96	1/2	5,954.36	1/2	6,316.88	1/2	6,665.32	1/2	7,040.28	1/2
3/4	3,889.18	3/4	4,250.62	3/4	4,612.07	3/4	4,972.51	3/4	5,287.62	3/4	5,607.38	3/4	5,958.80	3/4	6,321.32	3/4	6,669.76	3/4	7,044.72	3/4
10	3,896.71	10	4,258.15	10	4,619.60	10	4,980.02	10	5,292.04	10	5,611.80	10	5,963.24	10	6,325.76	10	6,674.20	10	7,049.16	10
1/4	3,904.24	1/4	4,265.68	1/4	4,627.13	1/4	4,987.52	1/4	5,296.46	1/4	5,616.22	1/4	5,967.68	1/4	6,330.20	1/4	6,678.64	1/4	7,053.60	1/4
1/2	3,911.77	1/2	4,273.21	1/2	4,634.66	1/2	4,995.02	1/2	5,300.88	1/2	5,620.64	1/2	5,972.12	1/2	6,334.64	1/2	6,683.08	1/2	7,058.04	1/2
3/4	3,919.30	3/4	4,280.74	3/4	4,642.19	3/4	5,002.53	3/4	5,305.30	3/4	5,625.06	3/4	5,976.56	3/4	6,339.08	3/4	6,687.52	3/4	7,062.48	3/4
11	3,926.83	11	4,288.27	11	4,649.72	11	5,010.03	11	5,309.72	11	5,629.48	11	5,981.00	11	6,343.52	11	6,691.96	11	7,066.92	11
1/4	3,934.36	1/4	4,295.80	1/4	4,657.25	1/4	5,017.47	1/4	5,314.14	1/4	5,633.90	1/4	5,985.44	1/4	6,347.96	1/4	6,696.40	1/4	7,071.36	1/4
1/2	3,941.89	1/2	4,303.33	1/2	4,664.78	1/2	5,024.91	1/2	5,318.56	1/2	5,638.32	1/2	5,989.88	1/2	6,352.40	1/2	6,700.88	1/2	7,075.80	1/2
3/4	3,949.42	3/4	4,310.86	3/4	4,672.31	3/4	5,032.35	3/4	5,322.98	3/4	5,642.74	3/4	5,994.32	3/4	6,356.84	3/4	6,705.32	3/4	7,080.24	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/05/2013 CL  
CALCULATED: 09/05/2013 SW  
PRINTED: 09/06/2013 SW  
CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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Pearland, Texas 77588  
http://www.pmacorp.net</



# BARGE "CBR 2022"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 3/4"

IN	1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			9 FT.						
	0	1	2	0	1	2	0	1	2	0	1	2	0	1	2	0	1	2	0	1	2	0	1	2	0	1	2				
0	21.24	0	0	716.55	0	0	1,076.36	0	0	1,436.21	0	0	1,796.23	0	0	2,156.23	0	0	2,516.16	0	0	2,875.91	0	0	3,234.77	0	0	3,594.64			
1/4	25.46	1/4	1/4	364.05	1/4	1/4	724.05	1/4	1/4	1,083.85	1/4	1/4	1,443.71	1/4	1/4	1,803.73	1/4	1/4	2,163.73	1/4	1/4	2,523.66	1/4	1/4	2,883.40	1/4	1/4	3,243.22	1/4	1/4	3,602.96
1/2	29.67	1/2	1/2	371.55	1/2	1/2	731.55	1/2	1/2	1,091.34	1/2	1/2	1,451.21	1/2	1/2	1,811.23	1/2	1/2	2,171.23	1/2	1/2	2,531.16	1/2	1/2	2,890.88	1/2	1/2	3,250.67	1/2	1/2	3,610.49
3/4	33.89	3/4	3/4	379.05	3/4	3/4	739.05	3/4	3/4	1,098.83	3/4	3/4	1,458.71	3/4	3/4	1,818.73	3/4	3/4	2,178.72	3/4	3/4	2,538.66	3/4	3/4	2,898.36	3/4	3/4	3,258.12	3/4	3/4	3,617.68
1	38.11	1	1	386.55	1	1	746.55	1	1	1,106.33	1	1	1,466.21	1	1	1,826.23	1	1	2,186.23	1	1	2,546.16	1	1	2,906.09	1	1	3,265.97	1	1	3,625.84
1/4	43.58	1/4	1/4	394.05	1/4	1/4	754.05	1/4	1/4	1,113.82	1/4	1/4	1,473.72	1/4	1/4	1,833.73	1/4	1/4	2,193.72	1/4	1/4	2,553.65	1/4	1/4	2,913.33	1/4	1/4	3,272.02	1/4	1/4	3,631.70
1/2	49.05	1/2	1/2	401.55	1/2	1/2	761.55	1/2	1/2	1,121.31	1/2	1/2	1,481.22	1/2	1/2	1,841.23	1/2	1/2	2,201.22	1/2	1/2	2,561.15	1/2	1/2	2,920.82	1/2	1/2	3,280.48	1/2	1/2	3,639.85
3/4	54.52	3/4	3/4	409.05	3/4	3/4	769.05	3/4	3/4	1,128.80	3/4	3/4	1,488.72	3/4	3/4	1,848.74	3/4	3/4	2,208.74	3/4	3/4	2,568.65	3/4	3/4	2,928.38	3/4	3/4	3,288.14	3/4	3/4	3,648.61
1	59.98	1	1	416.55	1	1	776.55	1	1	1,136.29	1	1	1,496.22	1	1	1,856.24	1	1	2,216.22	1	1	2,576.15	1	1	2,935.79	1	1	3,295.38	1	1	3,655.95
1/4	66.70	1/4	1/4	424.05	1/4	1/4	784.05	1/4	1/4	1,143.78	1/4	1/4	1,503.72	1/4	1/4	1,863.74	1/4	1/4	2,223.72	1/4	1/4	2,583.65	1/4	1/4	2,943.27	1/4	1/4	3,301.83	1/4	1/4	3,661.20
1/2	73.42	1/2	1/2	431.55	1/2	1/2	791.55	1/2	1/2	1,151.27	1/2	1/2	1,511.22	1/2	1/2	1,871.24	1/2	1/2	2,231.21	1/2	1/2	2,591.15	1/2	1/2	2,950.76	1/2	1/2	3,309.28	1/2	1/2	3,668.75
3/4	80.14	3/4	3/4	439.05	3/4	3/4	799.05	3/4	3/4	1,158.76	3/4	3/4	1,518.72	3/4	3/4	1,878.74	3/4	3/4	2,238.71	3/4	3/4	2,598.65	3/4	3/4	2,958.24	3/4	3/4	3,316.73	3/4	3/4	3,675.72
1	86.86	1	1	446.55	1	1	806.55	1	1	1,166.25	1	1	1,526.22	1	1	1,886.24	1	1	2,246.21	1	1	2,606.14	1	1	2,965.72	1	1	3,324.18	1	1	3,682.71
1/4	94.28	1/4	1/4	454.05	1/4	1/4	814.06	1/4	1/4	1,173.74	1/4	1/4	1,533.72	1/4	1/4	1,893.74	1/4	1/4	2,253.71	1/4	1/4	2,613.64	1/4	1/4	2,973.21	1/4	1/4	3,331.64	1/4	1/4	3,690.63
1/2	101.70	1/2	1/2	461.55	1/2	1/2	821.56	1/2	1/2	1,181.21	1/2	1/2	1,541.22	1/2	1/2	1,901.24	1/2	1/2	2,261.21	1/2	1/2	2,621.14	1/2	1/2	2,980.69	1/2	1/2	3,339.10	1/2	1/2	3,698.07
3/4	109.12	3/4	3/4	469.05	3/4	3/4	829.06	3/4	3/4	1,188.73	3/4	3/4	1,548.72	3/4	3/4	1,908.74	3/4	3/4	2,268.71	3/4	3/4	2,628.64	3/4	3/4	2,988.18	3/4	3/4	3,346.57	3/4	3/4	3,705.54
1	116.55	1	1	476.55	1	1	836.56	1	1	1,196.22	1	1	1,556.22	1	1	1,916.24	1	1	2,276.21	1	1	2,636.14	1	1	2,995.66	1	1	3,354.03	1	1	3,712.99
1/4	124.05	1/4	1/4	484.05	1/4	1/4	844.06	1/4	1/4	1,203.71	1/4	1/4	1,563.72	1/4	1/4	1,923.74	1/4	1/4	2,283.71	1/4	1/4	2,643.64	1/4	1/4	2,999.69	1/4	1/4	3,361.50	1/4	1/4	3,720.45
1/2	131.55	1/2	1/2	491.55	1/2	1/2	851.56	1/2	1/2	1,211.21	1/2	1/2	1,571.22	1/2	1/2	1,931.24	1/2	1/2	2,291.20	1/2	1/2	2,651.13	1/2	1/2	2,999.69	1/2	1/2	3,368.96	1/2	1/2	3,727.91
3/4	139.05	3/4	3/4	499.05	3/4	3/4	859.06	3/4	3/4	1,218.71	3/4	3/4	1,578.72	3/4	3/4	1,938.74	3/4	3/4	2,298.70	3/4	3/4	2,658.63	3/4	3/4	2,999.69	3/4	3/4	3,376.43	3/4	3/4	3,735.37
1	146.55	1	1	506.55	1	1	866.56	1	1	1,226.20	1	1	1,586.22	1	1	1,948.74	1	1	2,306.20	1	1	2,666.13	1	1	2,999.69	1	1	3,383.90	1	1	3,742.80
1/4	154.05	1/4	1/4	514.05	1/4	1/4	874.06	1/4	1/4	1,233.70	1/4	1/4	1,593.72	1/4	1/4	1,953.74	1/4	1/4	2,313.70	1/4	1/4	2,673.62	1/4	1/4	2,999.69	1/4	1/4	3,391.36	1/4	1/4	3,749.26
1/2	161.55	1/2	1/2	521.55	1/2	1/2	881.56	1/2	1/2	1,241.20	1/2	1/2	1,601.22	1/2	1/2	1,961.24	1/2	1/2	2,321.20	1/2	1/2	2,681.12	1/2	1/2	2,999.69	1/2	1/2	3,398.83	1/2	1/2	3,756.71
3/4	169.05	3/4	3/4	529.05	3/4	3/4	889.06	3/4	3/4	1,248.70	3/4	3/4	1,608.72	3/4	3/4	1,968.74	3/4	3/4	2,328.70	3/4	3/4	2,688.62	3/4	3/4	2,999.69	3/4	3/4	3,406.29	3/4	3/4	3,764.17
1	176.55	1	1	536.55	1	1	896.56	1	1	1,256.20	1	1	1,616.22	1	1	1,976.24	1	1	2,336.20	1	1	2,696.12	1	1	2,999.69	1	1	3,413.76	1	1	3,771.62
1/4	184.05	1/4	1/4	544.05	1/4	1/4	904.05	1/4	1/4	1,263.70	1/4	1/4	1,623.72	1/4	1/4	1,983.74	1/4	1/4	2,343.69	1/4	1/4	2,703.61	1/4	1/4	2,999.69	1/4	1/4	3,421.23	1/4	1/4	3,779.08
1/2	191.55	1/2	1/2	551.55	1/2	1/2	911.55	1/2	1/2	1,271.20	1/2	1/2	1,631.22	1/2	1/2	1,991.24	1/2	1/2	2,351.19	1/2	1/2	2,711.11	1/2	1/2	2,999.69	1/2	1/2	3,428.69	1/2	1/2	3,786.54
3/4	199.05	3/4	3/4	559.05	3/4	3/4	919.04	3/4	3/4	1,278.71	3/4	3/4	1,638.72	3/4	3/4	1,998.74	3/4	3/4	2,358.69	3/4	3/4	2,718.61	3/4	3/4	2,999.69	3/4	3/4	3,436.16	3/4	3/4	3,793.99
1	206.55	1	1	566.55	1	1	926.54	1	1	1,286.21	1	1	1,646.22	1	1	2,006.24	1	1	2,366.19	1	1	2,726.10	1	1	2,999.69	1	1	3,443.62	1	1	3,801.45
1/4	214.05	1/4	1/4	574.05	1/4	1/4	934.03	1/4	1/4	1,293.71	1/4	1/4	1,653.72	1/4	1/4	2,013.74	1/4	1/4	2,373.69	1/4	1/4	2,733.60	1/4	1/4	2,999.69	1/4	1/4	3,450.91	1/4	1/4	3,808.90
1/2	221.55	1/2	1/2	581.55	1/2	1/2	941.52	1/2	1/2	1,301.21	1/2	1/2	1,661.23	1/2	1/2	2,021.24	1/2	1/2	2,381.19	1/2	1/2	2,741.10	1/2	1/2	2,999.69	1/2	1/2	3,458.36	1/2	1/2	3,816.36
3/4	229.05	3/4	3/4	589.05	3/4	3/4	949.01	3/4	3/4	1,308.71	3/4	3/4	1,668.73	3/4	3/4	2,028.74	3/4	3/4	2,388.69	3/4	3/4	2,748.60	3/4	3/4	2,999.69	3/4	3/4	3,465.82	3/4	3/4	3,823.81
1	236.55	1	1	596.55	1	1	956.50	1	1	1,316.21	1	1	1,676.23	1	1	2,036.25	1	1	2,396.18	1	1	2,756.09	1	1	2,999.69	1	1	3,473.29	1	1	3,831.27
1/4	244.05	1/4	1/4	604.05	1/4	1/4	964.00	1/4	1/4	1,323.71	1/4	1/4	1,683.73	1/4	1/4	2,043.75	1/4	1/4	2,403.68	1/4	1/4	2,763.59	1/4	1/4	2,999.69	1/4	1/4	3,480.75	1/4	1/4	3,838.72
1/2	251.55	1/2	1/2	611.55	1/2	1/2	971.49	1/2	1/2	1,331.21	1/2	1/2	1,691.23	1/2	1/2	2,051.25	1/2	1/2	2,411.18	1/2	1/2	2,771.09	1/2	1/2	2,999.69	1/2	1/2	3,488.22	1/2	1/2	3,846.18
3/4	259.05	3/4	3/4	619.05	3/4	3/4	978.98	3/4	3/4	1,338.71	3/4	3/4	1,698.73	3/4	3/4																



# BARGE "CBR 2022"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0																		
0	3,553.49	0	3,747.19	0	3,940.90	0	4,134.60	0	4,327.53	0	4,520.46	0	4,713.39	0	4,906.32	0	5,099.25	0	5,292.18
1/4	3,557.53	1/4	3,751.23	1/4	3,944.93	1/4	4,138.64	1/4	4,331.51	1/4	4,524.44	1/4	4,717.37	1/4	4,910.30	1/4	5,103.23	1/4	5,296.16
1/2	3,561.56	1/2	3,755.27	1/2	3,948.97	1/2	4,142.67	1/2	4,335.50	1/2	4,528.43	1/2	4,721.36	1/2	4,914.29	1/2	5,107.22	1/2	5,300.15
3/4	3,565.60	3/4	3,759.30	3/4	3,953.01	3/4	4,146.71	3/4	4,339.48	3/4	4,532.41	3/4	4,725.34	3/4	4,918.27	3/4	5,111.20	3/4	5,304.18
1	3,569.63	1	3,763.34	1	3,957.04	1	4,150.74	1	4,343.46	1	4,536.39	1	4,729.32	1	4,922.25	1	5,115.18	1	5,308.16
1/4	3,573.67	1/4	3,767.37	1/4	3,961.08	1/4	4,154.77	1/4	4,347.44	1/4	4,540.37	1/4	4,733.30	1/4	4,926.23	1/4	5,119.16	1/4	5,312.14
1/2	3,577.70	1/2	3,771.41	1/2	3,965.11	1/2	4,158.79	1/2	4,351.43	1/2	4,544.36	1/2	4,737.29	1/2	4,930.22	1/2	5,123.18	1/2	5,316.12
3/4	3,581.74	3/4	3,775.44	3/4	3,969.15	3/4	4,162.81	3/4	4,355.41	3/4	4,548.39	3/4	4,741.34	3/4	4,934.25	3/4	5,127.21	3/4	5,320.10
2	3,585.77	2	3,779.48	2	3,973.18	2	4,166.83	2	4,359.39	2	4,552.42	2	4,745.37	2	4,938.30	2	5,131.25	2	5,324.14
1/4	3,589.81	1/4	3,783.51	1/4	3,977.22	1/4	4,170.85	1/4	4,363.37	1/4	4,556.45	1/4	4,749.40	1/4	4,942.33	1/4	5,135.29	1/4	5,328.18
1/2	3,593.85	1/2	3,787.55	1/2	3,981.25	1/2	4,174.87	1/2	4,367.36	1/2	4,560.48	1/2	4,753.43	1/2	4,946.36	1/2	5,139.33	1/2	5,332.22
3/4	3,597.88	3/4	3,791.59	3/4	3,985.29	3/4	4,178.89	3/4	4,371.34	3/4	4,564.51	3/4	4,757.46	3/4	4,950.39	3/4	5,143.37	3/4	5,336.26
3	3,601.92	3	3,795.62	3	3,989.32	3	4,182.91	3	4,375.32	3	4,568.54	3	4,761.49	3	4,954.42	3	5,147.41	3	5,340.30
1/4	3,605.95	1/4	3,799.66	1/4	3,993.36	1/4	4,186.93	1/4	4,379.30	1/4	4,572.57	1/4	4,765.52	1/4	4,958.45	1/4	5,151.45	1/4	5,344.34
1/2	3,609.99	1/2	3,803.69	1/2	3,997.40	1/2	4,190.95	1/2	4,383.29	1/2	4,576.60	1/2	4,769.55	1/2	4,962.48	1/2	5,155.49	1/2	5,348.38
3/4	3,614.02	3/4	3,807.73	3/4	4,001.43	3/4	4,194.98	3/4	4,387.27	3/4	4,580.63	3/4	4,773.60	3/4	4,966.51	3/4	5,159.53	3/4	5,352.42
4	3,618.06	4	3,811.76	4	4,005.47	4	4,199.00	4	4,391.25	4	4,584.66	4	4,777.63	4	4,970.60	4	5,163.57	4	5,356.46
1/4	3,622.09	1/4	3,815.80	1/4	4,009.50	1/4	4,203.02	1/4	4,395.23	1/4	4,588.70	1/4	4,781.66	1/4	4,974.63	1/4	5,167.61	1/4	5,360.50
1/2	3,626.13	1/2	3,819.83	1/2	4,013.54	1/2	4,207.04	1/2	4,399.22	1/2	4,592.77	1/2	4,785.69	1/2	4,978.66	1/2	5,171.65	1/2	5,364.54
3/4	3,630.17	3/4	3,823.87	3/4	4,017.57	3/4	4,211.06	3/4	4,403.20	3/4	4,596.80	3/4	4,789.72	3/4	4,982.70	3/4	5,175.69	3/4	5,368.58
5	3,634.20	5	3,827.90	5	4,021.61	5	4,215.08	5	4,407.18	5	4,600.25	5	4,793.75	5	4,986.77	5	5,179.73	5	5,372.62
1/4	3,638.24	1/4	3,831.94	1/4	4,025.64	1/4	4,219.10	1/4	4,410.62	1/4	4,604.32	1/4	4,797.77	1/4	4,990.80	1/4	5,183.77	1/4	5,376.66
1/2	3,642.27	1/2	3,835.98	1/2	4,029.68	1/2	4,223.12	1/2	4,414.05	1/2	4,608.45	1/2	4,801.80	1/2	4,994.83	1/2	5,187.81	1/2	5,380.70
3/4	3,646.31	3/4	3,840.01	3/4	4,033.72	3/4	4,227.14	3/4	4,417.49	3/4	4,612.58	3/4	4,805.83	3/4	4,998.86	3/4	5,191.85	3/4	5,384.74
6	3,650.34	6	3,844.05	6	4,037.75	6	4,231.16	6	4,420.93	6	4,616.61	6	4,809.86	6	4,999.89	6	5,195.89	6	5,388.78
1/4	3,654.38	1/4	3,848.08	1/4	4,041.79	1/4	4,235.18	1/4	4,423.19	1/4	4,620.74	1/4	4,813.89	1/4	5,003.92	1/4	5,199.93	1/4	5,392.82
1/2	3,658.41	1/2	3,852.12	1/2	4,045.82	1/2	4,239.21	1/2	4,425.45	1/2	4,624.87	1/2	4,817.92	1/2	5,007.96	1/2	5,203.97	1/2	5,396.86
3/4	3,662.45	3/4	3,856.15	3/4	4,049.86	3/4	4,243.23	3/4	4,427.72	3/4	4,628.99	3/4	4,821.95	3/4	5,011.99	3/4	5,208.01	3/4	5,400.90
7	3,666.48	7	3,860.19	7	4,053.89	7	4,247.25	7	4,429.98	7	4,633.06	7	4,825.98	7	5,016.03	7	5,212.05	7	5,404.94
1/4	3,670.52	1/4	3,864.22	1/4	4,057.93	1/4	4,251.27	1/4	4,431.01	1/4	4,636.19	1/4	4,829.01	1/4	5,019.07	1/4	5,216.09	1/4	5,408.98
1/2	3,674.56	1/2	3,868.26	1/2	4,061.96	1/2	4,255.29	1/2	4,432.04	1/2	4,638.32	1/2	4,833.06	1/2	5,023.11	1/2	5,220.13	1/2	5,413.02
3/4	3,678.59	3/4	3,872.30	3/4	4,066.00	3/4	4,259.31	3/4	4,433.06	3/4	4,641.45	3/4	4,837.09	3/4	5,027.15	3/4	5,224.17	3/4	5,417.06
8	3,682.63	8	3,876.33	8	4,070.03	8	4,263.33	8	4,434.09	8	4,644.54	8	4,841.18	8	5,031.19	8	5,228.21	8	5,421.10
1/4	3,686.66	1/4	3,880.37	1/4	4,074.07	1/4	4,267.35	1/4	4,435.12	1/4	4,647.63	1/4	4,844.21	1/4	5,035.23	1/4	5,232.25	1/4	5,425.14
1/2	3,690.70	1/2	3,884.40	1/2	4,078.11	1/2	4,271.37	1/2	4,436.15	1/2	4,650.72	1/2	4,847.24	1/2	5,039.27	1/2	5,236.29	1/2	5,429.18
3/4	3,694.73	3/4	3,888.44	3/4	4,082.14	3/4	4,275.39	3/4	4,437.18	3/4	4,653.81	3/4	4,848.27	3/4	5,043.31	3/4	5,240.33	3/4	5,433.22
9	3,698.77	9	3,892.47	9	4,086.18	9	4,279.41	9	4,438.21	9	4,656.90	9	4,851.30	9	5,047.35	9	5,244.37	9	5,437.26
1/4	3,702.80	1/4	3,896.51	1/4	4,090.21	1/4	4,283.44	1/4	4,439.24	1/4	4,660.00	1/4	4,852.34	1/4	5,051.39	1/4	5,248.41	1/4	5,441.30
1/2	3,706.84	1/2	3,900.54	1/2	4,094.25	1/2	4,287.46	1/2	4,440.27	1/2	4,663.09	1/2	4,853.38	1/2	5,055.43	1/2	5,252.45	1/2	5,445.34
3/4	3,710.88	3/4	3,904.58	3/4	4,098.28	3/4	4,291.48	3/4	4,441.30	3/4	4,666.18	3/4	4,854.42	3/4	5,059.47	3/4	5,256.49	3/4	5,449.38
10	3,714.91	10	3,908.61	10	4,102.32	10	4,295.50	10	4,442.33	10	4,669.27	10	4,855.46	10	5,063.51	10	5,260.53	10	5,453.42
1/4	3,718.95	1/4	3,912.65	1/4	4,106.35	1/4	4,299.52	1/4	4,443.36	1/4	4,672.36	1/4	4,856.50	1/4	5,067.55	1/4	5,264.57	1/4	5,457.46
1/2	3,722.98	1/2	3,916.69	1/2	4,110.39	1/2	4,303.54	1/2	4,444.39	1/2	4,675.45	1/2	4,857.54	1/2	5,071.59	1/2	5,268.61	1/2	5,461.50
3/4	3,727.02	3/4	3,920.72	3/4	4,114.43	3/4	4,307.56	3/4	4,445.42	3/4	4,678.54	3/4	4,858.58	3/4	5,075.63	3/4	5,272.65	3/4	5,465.54
11	3,731.05	11	3,924.76	11	4,118.46	11	4,311.58	11	4,446.45	11	4,681.63	11	4,859.62	11	5,079.67	11	5,276.69	11	5,469.58
1/4	3,735.09	1/4	3,928.79	1/4	4,122.50	1/4	4,315.57	1/4	4,447.48	1/4	4,684.72	1/4	4,860.66	1/4	5,083.71	1/4	5,280.73	1/4	5,473.62
1/2	3,739.12	1/2	3,932.83	1/2	4,126.53	1/2	4,319.56	1/2	4,448.51	1/2	4,687.81	1/2	4,861.70	1/2	5,087.75	1/2	5,284.77	1/2	5,477.66
3/4	3,743.16	3/4	3,936.86	3/4	4,130.57	3/4	4,323.54	3/4	4,449.54	3/4	4,690.90	3/4	4,862.74	3/4	5,091.79	3/4	5,288.81	3/4	5,481.70

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/05/2013 CL  
CALCULATED: 09/05/2013 SW  
PRINTED: 09/06/2013 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "CBR 2022"

3 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.
0	21.23	355.95	715.31	1,063.12	1,415.90	1,774.64	2,133.87	2,493.05	2,852.04	3,209.96
1/4	25.45	363.43	722.79	1,070.27	1,423.32	1,782.12	2,141.36	2,500.53	2,859.51	3,217.40
1/2	29.67	370.92	730.28	1,077.42	1,430.74	1,789.61	2,148.84	2,508.01	2,866.98	3,224.83
3/4	33.88	378.41	737.77	1,084.57	1,438.17	1,797.09	2,156.32	2,515.50	2,874.44	3,232.27
1	38.10	385.89	745.25	1,091.72	1,445.59	1,804.57	2,163.80	2,522.98	2,881.91	3,239.70
1/4	43.56	393.38	752.74	1,098.87	1,453.01	1,812.06	2,171.29	2,530.46	2,889.37	3,247.13
1/2	49.02	400.87	760.23	1,106.02	1,460.44	1,819.54	2,178.77	2,537.94	2,896.84	3,254.57
3/4	54.47	408.35	767.71	1,113.17	1,467.86	1,827.03	2,186.25	2,545.43	2,904.30	3,262.00
2	59.93	415.84	775.20	1,120.31	1,475.28	1,834.51	2,193.73	2,552.91	2,911.76	3,269.44
1/4	66.63	423.33	782.69	1,127.46	1,482.76	1,842.00	2,201.22	2,560.39	2,919.22	3,276.87
1/2	73.32	430.81	790.17	1,134.61	1,490.24	1,849.48	2,208.70	2,567.87	2,926.68	3,284.31
3/4	80.02	438.30	797.66	1,141.76	1,497.71	1,856.97	2,216.18	2,575.36	2,934.14	3,291.74
3	86.72	445.79	805.15	1,148.91	1,505.19	1,864.45	2,223.67	2,582.84	2,941.61	3,299.18
1/4	94.12	453.27	812.39	1,156.31	1,512.68	1,871.94	2,231.15	2,590.32	2,949.07	3,306.62
1/2	101.53	460.76	819.62	1,163.71	1,520.16	1,879.42	2,238.63	2,597.81	2,956.53	3,314.07
3/4	108.94	468.25	826.86	1,171.11	1,527.64	1,886.91	2,246.11	2,605.29	2,963.99	3,321.52
4	116.35	475.73	834.10	1,178.50	1,535.13	1,894.39	2,253.60	2,612.77	2,971.45	3,328.97
1/4	123.84	483.22	841.28	1,185.91	1,542.61	1,901.87	2,261.08	2,620.25	2,978.91	3,336.42
1/2	131.33	490.71	848.46	1,193.32	1,550.10	1,909.36	2,268.56	2,627.73	2,986.37	3,343.87
3/4	138.82	498.19	855.64	1,200.73	1,557.58	1,916.84	2,276.05	2,635.21	2,993.83	3,351.32
5	146.32	505.68	862.82	1,208.13	1,565.07	1,924.33	2,283.53	2,642.70	3,001.30	3,358.77
1/4	153.80	513.17	869.99	1,215.54	1,572.55	1,931.81	2,291.01	2,650.18	3,008.76	3,366.22
1/2	161.29	520.65	877.17	1,222.95	1,580.04	1,939.30	2,298.49	2,657.66	3,016.22	3,373.67
3/4	168.78	528.14	884.34	1,230.35	1,587.52	1,946.78	2,305.98	2,665.14	3,023.68	3,381.12
6	176.26	535.63	891.52	1,237.76	1,595.01	1,954.27	2,313.46	2,672.62	3,031.14	3,388.57
1/4	183.75	543.11	898.67	1,245.18	1,602.49	1,961.75	2,320.94	2,680.10	3,038.60	3,396.02
1/2	191.24	550.60	905.83	1,252.60	1,609.97	1,969.24	2,328.43	2,687.59	3,046.06	3,403.47
3/4	198.72	558.09	912.98	1,260.02	1,617.46	1,976.72	2,335.91	2,695.07	3,053.52	3,410.92
7	206.21	565.57	920.13	1,267.44	1,624.94	1,984.20	2,343.39	2,702.55	3,060.99	3,418.37
1/4	213.70	573.06	927.28	1,274.86	1,632.43	1,991.69	2,350.87	2,710.03	3,068.45	3,425.82
1/2	221.19	580.55	934.43	1,282.29	1,639.91	1,999.17	2,358.36	2,717.51	3,075.92	3,433.27
3/4	228.67	588.03	941.58	1,289.71	1,647.40	2,006.66	2,365.84	2,724.99	3,083.39	3,440.72
8	236.16	595.52	948.73	1,297.13	1,654.88	2,014.14	2,373.32	2,732.47	3,090.86	3,448.17
1/4	243.65	603.01	955.88	1,304.56	1,662.37	2,021.63	2,380.80	2,739.96	3,098.32	3,455.62
1/2	251.13	610.49	963.03	1,311.98	1,669.85	2,029.11	2,388.29	2,747.44	3,105.79	3,463.07
3/4	258.62	617.98	970.18	1,319.40	1,677.34	2,036.59	2,395.77	2,754.92	3,113.26	3,470.52
9	266.11	625.47	977.33	1,326.82	1,684.82	2,044.08	2,403.25	2,762.41	3,120.73	3,477.97
1/4	273.59	632.95	984.48	1,334.25	1,692.31	2,051.56	2,410.74	2,769.88	3,128.17	3,485.42
1/2	281.08	640.44	991.63	1,341.67	1,699.79	2,059.04	2,418.22	2,777.35	3,135.61	3,492.87
3/4	288.57	647.93	998.78	1,349.09	1,707.27	2,066.53	2,425.70	2,784.82	3,143.05	3,499.32
10	296.05	655.41	1,005.93	1,356.52	1,714.76	2,074.01	2,433.18	2,792.29	3,150.49	3,505.77
1/4	303.54	662.90	1,013.08	1,363.94	1,722.24	2,081.49	2,440.67	2,799.76	3,157.92	3,512.22
1/2	311.03	670.39	1,020.23	1,371.36	1,729.73	2,088.98	2,448.15	2,807.23	3,165.35	3,518.67
3/4	318.51	677.87	1,027.37	1,378.78	1,737.21	2,096.46	2,455.63	2,814.69	3,172.79	3,525.12
11	326.00	685.36	1,034.52	1,386.21	1,744.70	2,103.94	2,463.12	2,822.16	3,180.22	3,531.57
1/4	333.49	692.85	1,041.67	1,393.63	1,752.18	2,111.42	2,470.60	2,829.63	3,187.66	3,538.02
1/2	340.97	700.33	1,048.82	1,401.05	1,759.67	2,118.91	2,478.08	2,837.10	3,195.09	3,544.47
3/4	348.46	707.82	1,055.97	1,408.48	1,767.15	2,126.39	2,485.56	2,844.57	3,202.53	3,550.92

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

http://www.pmaacorp.net

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 27.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF "HERMETIC" CLOSED GAUGING VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.



# BARGE "CBR 2022"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS		GAUGE HEIGHT 15'-08 1/4"																	
IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,527.93	0	3,720.91	0	3,913.90	0	4,106.88	0	4,299.10	0	4,491.32	0	4,683.54	0	4,875.76	0	5,067.98	0	5,260.20
1/4	3,531.95	1/4	3,724.93	1/4	3,917.92	1/4	4,110.90	1/4	4,303.06	1/4	4,495.28	1/4	4,687.44	1/4	4,879.60	1/4	5,071.76	1/4	5,263.92
1/2	3,535.97	1/2	3,728.96	1/2	3,921.94	1/2	4,114.92	1/2	4,307.03	1/2	4,499.21	1/2	4,691.37	1/2	4,883.51	1/2	5,075.65	1/2	5,267.79
3/4	3,539.99	3/4	3,732.98	3/4	3,925.96	3/4	4,118.94	3/4	4,311.00	3/4	4,503.14	3/4	4,695.28	3/4	4,887.44	3/4	5,079.76	3/4	5,271.92
1	3,544.01	1	3,737.00	1	3,929.98	1	4,122.96	1	4,314.97	1	4,507.11	1	4,699.25	1	4,891.39	1	5,083.53	1	5,276.04
1/4	3,548.03	1/4	3,741.02	1/4	3,934.00	1/4	4,126.97	1/4	4,318.93	1/4	4,511.07	1/4	4,703.21	1/4	4,895.35	1/4	5,087.49	1/4	5,280.16
1/2	3,552.05	1/2	3,745.04	1/2	3,938.02	1/2	4,130.98	1/2	4,322.90	1/2	4,515.11	1/2	4,707.25	1/2	4,899.39	1/2	5,091.53	1/2	5,284.28
3/4	3,556.07	3/4	3,749.06	3/4	3,942.04	3/4	4,134.99	3/4	4,326.87	3/4	4,519.20	3/4	4,711.34	3/4	4,903.48	3/4	5,095.61	3/4	5,288.40
2	3,560.09	2	3,753.08	2	3,946.06	2	4,138.99	2	4,330.84	2	4,523.22	2	4,715.36	2	4,907.50	2	5,099.63	2	5,292.52
1/4	3,564.11	1/4	3,757.10	1/4	3,950.08	1/4	4,143.00	1/4	4,334.80	1/4	4,527.24	1/4	4,719.38	1/4	4,911.52	1/4	5,103.65	1/4	5,296.64
1/2	3,568.14	1/2	3,761.12	1/2	3,954.10	1/2	4,147.01	1/2	4,338.77	1/2	4,531.27	1/2	4,723.41	1/2	4,915.54	1/2	5,107.67	1/2	5,300.76
3/4	3,572.16	3/4	3,765.14	3/4	3,958.12	3/4	4,151.01	3/4	4,342.74	3/4	4,535.29	3/4	4,727.45	3/4	4,919.56	3/4	5,111.69	3/4	5,304.88
3	3,576.18	3	3,769.16	3	3,962.14	3	4,155.02	3	4,346.71	3	4,539.32	3	4,731.48	3	4,923.58	3	5,115.71	3	5,308.90
1/4	3,580.20	1/4	3,773.18	1/4	3,966.16	1/4	4,159.02	1/4	4,350.67	1/4	4,543.35	1/4	4,735.51	1/4	4,927.60	1/4	5,119.73	1/4	5,312.92
1/2	3,584.22	1/2	3,777.20	1/2	3,970.19	1/2	4,163.03	1/2	4,354.64	1/2	4,547.38	1/2	4,739.54	1/2	4,931.62	1/2	5,123.75	1/2	5,316.94
3/4	3,588.24	3/4	3,781.22	3/4	3,974.21	3/4	4,167.03	3/4	4,358.61	3/4	4,551.41	3/4	4,743.57	3/4	4,935.64	3/4	5,127.77	3/4	5,320.96
4	3,592.26	4	3,785.24	4	3,978.23	4	4,171.04	4	4,362.58	4	4,555.44	4	4,747.60	4	4,939.66	4	5,131.79	4	5,324.98
1/4	3,596.28	1/4	3,789.26	1/4	3,982.25	1/4	4,175.05	1/4	4,366.54	1/4	4,559.47	1/4	4,751.63	1/4	4,943.68	1/4	5,135.81	1/4	5,328.99
1/2	3,600.30	1/2	3,793.28	1/2	3,986.27	1/2	4,179.05	1/2	4,370.51	1/2	4,563.50	1/2	4,755.65	1/2	4,947.70	1/2	5,139.83	1/2	5,333.01
3/4	3,604.32	3/4	3,797.30	3/4	3,990.29	3/4	4,183.06	3/4	4,374.48	3/4	4,567.53	3/4	4,759.68	3/4	4,951.72	3/4	5,143.85	3/4	5,337.03
5	3,608.34	5	3,801.32	5	3,994.31	5	4,187.06	5	4,378.45	5	4,571.56	5	4,763.71	5	4,955.74	5	5,147.87	5	5,341.05
1/4	3,612.36	1/4	3,805.34	1/4	3,998.33	1/4	4,191.07	1/4	4,381.87	1/4	4,575.59	1/4	4,767.74	1/4	4,959.76	1/4	5,151.89	1/4	5,345.07
1/2	3,616.38	1/2	3,809.37	1/2	4,002.35	1/2	4,195.08	1/2	4,385.29	1/2	4,579.62	1/2	4,771.77	1/2	4,963.78	1/2	5,155.91	1/2	5,349.09
3/4	3,620.40	3/4	3,813.39	3/4	4,006.37	3/4	4,199.08	3/4	4,388.71	3/4	4,583.65	3/4	4,775.80	3/4	4,967.80	3/4	5,159.93	3/4	5,353.11
6	3,624.42	6	3,817.41	6	4,010.39	6	4,203.09	6	4,392.13	6	4,587.68	6	4,779.82	6	4,971.82	6	5,163.95	6	5,357.13
1/4	3,628.44	1/4	3,821.43	1/4	4,014.41	1/4	4,207.09	1/4	4,396.38	1/4	4,591.71	1/4	4,783.85	1/4	4,975.84	1/4	5,167.97	1/4	5,361.15
1/2	3,632.46	1/2	3,825.45	1/2	4,018.43	1/2	4,211.10	1/2	4,399.63	1/2	4,595.74	1/2	4,787.87	1/2	4,979.86	1/2	5,171.89	1/2	5,365.17
3/4	3,636.48	3/4	3,829.47	3/4	4,022.45	3/4	4,215.11	3/4	4,398.88	3/4	4,599.76	3/4	4,791.89	3/4	4,983.88	3/4	5,175.91	3/4	5,369.19
7	3,640.50	7	3,833.49	7	4,026.47	7	4,219.11	7	4,401.13	7	4,601.14	7	4,795.91	7	4,987.90	7	5,179.93	7	5,373.21
1/4	3,644.52	1/4	3,837.51	1/4	4,030.49	1/4	4,223.12	1/4	4,402.14	1/4	4,603.16	1/4	4,797.93	1/4	4,989.92	1/4	5,181.95	1/4	5,377.23
1/2	3,648.55	1/2	3,841.53	1/2	4,034.51	1/2	4,227.12	1/2	4,403.16	1/2	4,605.18	1/2	4,801.95	1/2	4,993.94	1/2	5,185.97	1/2	5,381.25
3/4	3,652.57	3/4	3,845.55	3/4	4,038.53	3/4	4,231.13	3/4	4,404.17	3/4	4,607.20	3/4	4,803.97	3/4	4,997.96	3/4	5,189.99	3/4	5,385.27
8	3,656.59	8	3,849.57	8	4,042.55	8	4,235.14	8	4,405.18	8	4,609.22	8	4,807.99	8	5,001.98	8	5,193.01	8	5,389.29
1/4	3,660.61	1/4	3,853.59	1/4	4,046.57	1/4	4,239.14	1/4	4,406.19	1/4	4,611.24	1/4	4,811.01	1/4	5,005.00	1/4	5,197.03	1/4	5,393.31
1/2	3,664.63	1/2	3,857.61	1/2	4,050.60	1/2	4,243.15	1/2	4,407.20	1/2	4,613.26	1/2	4,813.03	1/2	5,007.02	1/2	5,199.05	1/2	5,395.33
3/4	3,668.65	3/4	3,861.63	3/4	4,054.62	3/4	4,247.15	3/4	4,408.21	3/4	4,615.28	3/4	4,815.05	3/4	5,009.04	3/4	5,201.07	3/4	5,397.35
9	3,672.67	9	3,865.65	9	4,058.64	9	4,251.16	9	4,409.22	9	4,617.29	9	4,817.07	9	5,011.06	9	5,203.09	9	5,399.37
1/4	3,676.69	1/4	3,869.67	1/4	4,062.66	1/4	4,255.16	1/4	4,410.23	1/4	4,619.31	1/4	4,819.09	1/4	5,013.08	1/4	5,205.11	1/4	5,401.39
1/2	3,680.71	1/2	3,873.69	1/2	4,066.68	1/2	4,259.17	1/2	4,411.24	1/2	4,621.33	1/2	4,821.11	1/2	5,015.10	1/2	5,207.13	1/2	5,403.41
3/4	3,684.73	3/4	3,877.71	3/4	4,070.70	3/4	4,263.18	3/4	4,412.25	3/4	4,623.35	3/4	4,823.13	3/4	5,017.12	3/4	5,209.15	3/4	5,405.43
10	3,688.75	10	3,881.73	10	4,074.72	10	4,267.18	10	4,413.26	10	4,625.37	10	4,825.15	10	5,019.14	10	5,211.17	10	5,407.45
1/4	3,692.77	1/4	3,885.75	1/4	4,078.74	1/4	4,271.19	1/4	4,414.27	1/4	4,627.39	1/4	4,827.17	1/4	5,021.16	1/4	5,213.19	1/4	5,409.47
1/2	3,696.79	1/2	3,889.78	1/2	4,082.76	1/2	4,275.19	1/2	4,415.28	1/2	4,629.41	1/2	4,829.19	1/2	5,023.18	1/2	5,215.21	1/2	5,411.49
3/4	3,700.81	3/4	3,893.80	3/4	4,086.78	3/4	4,279.20	3/4	4,416.29	3/4	4,631.43	3/4	4,831.21	3/4	5,025.20	3/4	5,217.23	3/4	5,413.51
11	3,704.83	11	3,897.82	11	4,090.80	11	4,283.21	11	4,417.30	11	4,633.45	11	4,833.23	11	5,027.22	11	5,219.25	11	5,415.53
1/4	3,708.85	1/4	3,901.84	1/4	4,094.82	1/4	4,287.18	1/4	4,418.31	1/4	4,635.47	1/4	4,835.25	1/4	5,029.24	1/4	5,221.27	1/4	5,417.55
1/2	3,712.87	1/2	3,905.86	1/2	4,098.84	1/2	4,291.15	1/2	4,419.32	1/2	4,637.50	1/2	4,837.27	1/2	5,031.26	1/2	5,223.29	1/2	5,419.57
3/4	3,716.89	3/4	3,909.88	3/4	4,102.86	3/4	4,295.12	3/4	4,420.33	3/4	4,639.52	3/4	4,839.29	3/4	5,033.28	3/4	5,225.31	3/4	5,421.59

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/05/2013 CL  
CALCULATED: 09/05/2013 SW  
PRINTED: 09/06/2013 SW  
CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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