SALOMETER - BAUME - T.D.S CONVERSION CHART

% saturation of salt

T.D.S. IN PARTS PER MILLION
AT 60 DEGRESS F.

SALOMT	BAUME	T.D.S.	SALOMT.	BAUME	T.D.S.	SALOMT.	BAUME	T.D.S.
5.57	1.8	2250	37.35	9.6	103743	69.12	17.4	205237
6.39	2.0	4852	38.16	9.8	106346	69.94	17.6	207839
7.20	2.2	7454	38.98	10.0	108948	70.75	17.8	210442
8.02	2.4	10057	39.79	10.2	111550	71.57	18.0	213044
8.83	2.6	12659	40.61	10.4	114153	72.38	18.2	215646
9.65	2.8	15262	41.42	10.6	116755	73.20	18.4	218249
10.46	3.0	17864	42.24	10.8	119358	74.01	18.6	220851
Cargill's target → 11.28	3.2	20466	43.05	11.0	121960	74.83	18.8	223454
12.09	3.4	23069	43.87	11.2	124562	75.64	19.0	226056
12.91	3.6	25671	44.68	11.4	127165	76.46	19.2	228658
13.72	3.8	28274	45.50	11.6	129767	77.27	19.4	231261
14.54	4.0	30876	46.31	11.8	132370	78.09	19.6	233863
rain-water NPDES → 15.35	4.2	33478	47.13	12.0	134972	78.90	19.8	236466
16.17	4.4	36081	47.94	12.2	137574	79.71	20.0	239068
16.98	4.6	38683	48.76	12.4	140177	80.53	20.2	241670
17.80	4.8	41286	49.57	12.6	142779	81.34	20.4	244273
18.61	5.0	43888	50.38	12.8	145382	82.16	20.6	246875
19.43	5.2	46490	51.20	gypsum drop → 13.0	147984	82.97	20.8	249478
20.24	5.4	49093	52.01	13.2	150586	83.79	21.0	252080
21.05	5.6	51695	52.83	13.4	153189	84.60	21.2	254682
21.87	5.8	54298	53.64	13.6	155791	85.42	21.4	257285
22.68	6.0	56900	54.46	13.8	158394	86.23	21.6	259887
23.50	6.2	59502	55.27	14.0	160996	87.05	21.8	262490
24.31	6.4	62105	56.09	14.2	163598	87.86	22.0	265092
25.13	6.6	64707	56.90	14.4	166201	88.68	22.2	267694
25.94	6.8	67310	57.72	14.6	168803	89.49	22.4	270297
26.76	7.0	69912	58.53	14.8	171406	90.31	22.6	272899
27.57	7.2	72514	59.35	15.0	174008	91.12	22.8	275502
28.39	7.4	75117	60.16	15.2	176610	91.94	23.0	278104
29.20	7.6	77719	60.98	15.4	179213	92.75	23.2	280706
30.02	7.8	80322	61.79	15.6	181815	93.57	23.4	283309
30.83	8.0	82924	62.61	15.8	184418	94.38	23.6	285911
31.65	8.2	85526	63.42	16.0	187020	95.19	23.8	288514
32.46	8.4	88129	64.24	16.2	189622	96.01	24.0	291116
33.28	8.6	90731	65.05	16.4	192225	96.82	24.2	293718
34.09	8.8	93334	65.86	16.6	194827	97.64	24.4	296321
34.91	9.0	95936	66.68	16.8	197430	98.45	24.6	298923
35.72	9.2	98538	67.49	17.0	200032	99.27	24.8	301526
36.53	9.4	101141	68.31	17.2	202634			

next page

~ 1:1 salinity to TDS

S.R. Hansen

SUMMARY RESULTS OF CARGILL RAINWATER CRYSTALLIZER DISCHARGES

REDWOOD CITY							
ANALYTE (mg/L)	2/19/93	2/24/93	3/3/93	3/11/95	2/23/96	3/8/96	**Limit**
As	0.0051	<0.01	---	<0.004	<0.020	---	**0.02**
Cd	<0.001	<0.0025	---	<0.001	<0.005	---	**0.01**
Cr	0.0091	0.0041	---	0.010	0.005	---	**0.011**
Cu	0.0067	0.0034	---	0.019	0.010	---	**0.02**
Pb	<0.01	<0.05	---	**0.0084**	<0.005	---	**0.0056**
Hg	<0.00020	<0.00020	---	<0.00020	<0.00020	---	**0.001**
Ni	**0.0089**	0.006	---	**0.018**	**0.011**	---	**0.0071**
Ag	<0.001	<0.001	---	<0.001	<0.005*	---	**0.0023**
Zn	**0.11**	<0.02	---	0.033	<0.010*	---	**0.058**
TDS	16500	22600	26600	30000	31300	21000	**32000**
BOD	15	13	**120**	<5.0	<10	4.5	**20**
pH	8.01	**8.67**	**8.76**	8.46	8.43	**8.96**	**>6.5 & <8.5**
EC	25000	---	30000	---	---	30000	**?**
Salinity	15	20	22	29	31.3	20	**?**
% Survival in 100%	75	90	100	95	70	95	**90%**
% Survival in Control	90	80	95	80	90	80	90

* - CANNOT TELL DUE TO ELEVATED DETECTION LIMITS

S.R. Hansen + Associates. March 25, 1996. Report of Acute Biomonitoring Test, Rainwater Discharge from Crystallizers collected 07 March 1996. Redwood City Facility. Prepared for Cargill Salt Co.

Table 4.1.7
Pond Elevations under Existing and ISP Conditions and Salinity under Existing Conditions (Concluded)

Pond	Pond Area (Acres)	Pond Bottom Elevation NGVD	Existing Average (Year Round) Depth (ft)	Existing Salinity Range (ppt)	Summer					Winter				
					Existing			ISP Avg Water Depth (ft)	Change (ISP-Avg) (ft)	Existing			ISP Avg Water Depth (ft)	Change (ISP-Avg) (ft)
					6-year Average Depth (ft)	Depth Range				6-year Average Depth (ft)	Depth Range			
						Min (ft)	Max (ft)				Min (ft)	Max (ft)		
West Bay Ponds														
1	445	2.1	0.5	35-326	0.4	-2.0	2.9	0.9	0.5	0.8	-2.0	3.1	1.0	0.2
2	145	2.0	1.6	64-306	1.4	0.1	2.9	0.8	-0.6	1.7	0.2	3.4	0.9	-0.8
3	273	2.2	1.2	145-320	0.9	-0.4	2.4	0.8	-0.1	1.6	-0.4	2.7	0.9	-0.8
4	297	2.8	0.4	88-341	0.0	-1.8	1.5	0.7	0.6	0.7	-1.8	2.0	0.7	0.0
5	31	2.5	0.6	96-340	0.3	-1.6	1.7	1.0	0.7	1.0	-1.6	2.2	1.0	0.0
S5	29	2.5	-2.5					1.2					1.2	
SF2	242	2.6	1.0	76-316	1.0	0.3	2.1	0.7	-0.3	1.0	0.2	2.2	0.8	-0.2

Notes: S = Seasonal Pond
B = Batch Pond