

RECORDING SHEET FOR R-6 EXPERIMENT (P₂-1-2) DATE 3 Dec. 1991

TIME	PRESS	FEED			COOLING SYS. TEMP. (°C)		FEED TANK TEMP. (°C)		CELL No	MEMBRANE NAME
		TEMP °C	EC MS/cm	PH	IN	OUT	IN	OUT		
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT		
:									4	SC-8000
:									6	NTR759HR
:									7	NTR759SW

Cell No	TIME	PRESS MPa	BRINE FLUX l/min	time min	PERMEATE			CALCULATED		
					Flux ml/scan	EC μ S/cm	PH	Conc. mg/l	Rej %	Flux $m^3/m^2 \cdot day$
4	10:20	200	1.6	30	181	2140				
	10:50				17.51	2150				
	11:20				18.57	2220				
	11:50	250	4.0	30	17.1	2130				
	12:20				19.1	2040				
	12:50			15	10.1	2030	6.51			
6	10:20	200	1.6	30	351	1160				
	10:50				351	1140				
	11:20				361	1140				
	11:50		4.0	30	381	1090				
	12:20				41.7	1140				
	12:50			15	231	1240	6.43			
7	10:20	200	1.6	30	271	1420				
	10:50				271	1370				
	11:20				281	1340				
	11:50		4.0	30	291	1190				
	12:20				32.51	1120				
	12:50			15	17.51	1200	6.46			

PRD; 91.11.22 mba

RECORDING SHEET FOR R-6 EXPERIMENT (P3-1-3) DATE 3 Dec. 1991

TIME	PRESS	F E E D			COOLING SYS.		FEED TANK		CELL	MEMBRANE
		TEMP	EC	PH	TEMP.(°C)		TEMP.(°C)			
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT	No	NAME
:									8	UTC-80HR
:									9	UTC-80HF
:									10	UTC-70

Cell No	TIME	PRESS	BRINE FLUX	time	P E M E A T E			CALCULATED		
					Flux	EC	PH	Conc.	Rej	Flux
	:	MPa	l/min	min	ml/scale	µS/cm	-	mg/l	%	m ³ /m ² .day
8	10:20	800	1.6	30	24/	848				
	10:50				23/	834				
	11:20				24/	818				
	11:50		4.0	30	25.5/	750				
	12:20				28.0/	726				
	12:50				15	16.5/	763	6.65		
9	10:20	800	1.6	30	31/	928				
	10:50				30.5/	912				
	11:20				32.5/	890				
	11:50		4.0	30	35.0/	746				
	12:20				38.5/	722				
	12:50				15	22/	733	6.33		
10	10:20	800	1.6	30	63/	10930				
	10:50				62/	10500				
	11:20				62/	10930				
	11:50		4.0	30	106/	22600				
	12:20				114/	22100				
	12:50				15	61/	21000	6.40		

PRO: 91.11.22 - mba

RECORDING SHEET FOR R-6 EXPERIMENT (P3-1-4) DATE 3 Dec 1991

TIME	PRESS	FEED			COOLING SYS. TEMP.(°C)		FEED TANK TEMP.(°C)		CELL No	MEMBRANE NAME
		TEMP. °C	EC	PH	IN	OUT	IN	OUT		
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT	11	NTR 759SM
:									12	NTR 759HR
:										
:										
:										
:										

Cell No	TIME	PRESS	BRINE FLUX	time	PEMEATE			CALCULATED		
					Flux	EC	PH	Conc.	Rej	Flux
	:	MPa	l/min	min	ml/scale	µS/cm	-	mg/l	%	m³/m²·day
11	10:20	200	1.6	30	24 /	1751				
	10:50				23.5 /	1680				
	11:20				25 /	1855				
	:				/					
	:				/					
	:				/					
12	10:20	200	1.6	30	32 /	1.100				
	10:50				32 /	1.077				
	11:20				33 /	1.077				
	:				/					
	:				/					
	:				/					
	:				/					
	:				/					
	:				/					
	:				/					

PRO: 91.11.22 - mba

RECORDING SHEET FOR R-6 EXPERIMENT (M-1-1) DATE Dec. 2, 1991

56%
97PSI
5.5 MPa
3.0
55%
75PSI
6.4 MPa

TIME	PRESS	F E E D			COOLING SYS. TEMP.(°C)		FEED TANK TEMP.(°C)		CELL No	MEMBRANE NAME
		TEMP °C	EC MS/cm	PH	IN	OUT	IN	OUT		
9:20	start									
9:50	5.5	27.0	53.3	6.51	17.0	19.5	26.0	26.0	1	NTR759HR
10:10		26.0	53.2	6.54	16.0	18.0	26.0	26.0	2	NTR759HR
10:30		26.0	53.2	6.56	16.0	19.2	26.0	26.5	3	NTR759ST
10:55	6.4			6.4						
11:00		27.0	53.3	6.45	16.0	18.6	26.8	27.5		
11:00		27.0	53.3	6.47	18	1-	27.0			

Cell No	TIME	PRESS MPa	BRINE FLUX l/min	time min	P E M E A T E			CALCULATED		
					Flux ml/scale	EC μ S/cm	PH	Conc. mg/l	Rej %	Flux $m^3/m^2 \cdot day$
1	9:50	5.5	4.0	20	28/	2.460				
	10:10	↓	↓	↓	29/	2.350				
	10:30	↓	↓	↓	28/	2.380				
	11:10	6.4	↓	↓	36.4/	2.030				
	11:30	↓	↓	↓	36.1/	2.080	6.14			
2	9:50	5.5	4.0	20	28/	2.010				
	10:10	↓	↓	↓	28.5/	2.040				
	10:30	↓	↓	↓	29.2/	2.020				
	11:10	6.4	↓	↓	36.4/	1.710				
	11:30	↓	↓	↓	36/	1.770	6.4			
3	9:50	5.5	4.0	20	18.5/	3.220				
	10:10	↓	↓	↓	18.7/	3.010				
	10:30	↓	↓	↓	18.5/	2.960				
	11:00				/					
	11:30				/					

PRO: 91.11.22 - mfk

RECORDING SHEET FOR R-6 EXPERIMENT (M-1-2) DATE Dec. 8, 1991

TIME	PRESS	F E E D			COOLING SYS.		FEED TANK		CELL	MEMBRANE
		TEMP.	EC	PH	TEMP.(°C)		TEMP.(°C)			
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT	No	NAME
:									6	NTR759SW
:									8	UTC80HR
:									12	UTC80HR

Cell No	TIME	PRESS	BRINE FLUX	time	P E M E A T E			CALCULATED		
					Flux	EC	PH	Conc.	Rej	Flux
:	:	MPa	l/min	min	ml/scale	µS/cm	-	mg/l	%	m ³ /m ² ·day
6	9:50	5.5	4.0	20	18.5/	2.110				
	10:10	↓	↓	↓	18.2/	2.080				
	10:30	↓	↓	↓	18.0/	2.080				
	11:10	6.4	↓	↓	24.0/	1.890				
	11:30	"	↓	↓	23/	1.870	6.3			
	:				/					
8	9:50	5.5	4.0	20	19.1	1780				
	10:10	↓	↓	↓	19.2/	1650				
	10:30	↓	↓	↓	19.2/	1520				
	11:10	6.4	↓	↓	26.0/	1.520				
	11:30	"	↓	↓	25/	1.550	6.35			
	:				/					
12	9:50	5.5	4.0	20	18.5/	845				
	:	↓	↓	↓	19.5/	220				
	:	↓	↓	↓	18.7/	1050				
	:	6.4	↓	↓	25.2/	892				
	:	"	↓	↓	25.0/	905	6.45			
	:				/					

PRO: 91.11.22 mba

RECORDING SHEET FOR R-6 EXPERIMENT (H-2-1) DATE Dec. 9, 1991

TIME	PRESS	F E E D			COOLING SYS.		FEED TANK		CELL	MEMBRANE
		TEMP.	EC	PH	TEMP.(°C)	TEMP.(°C)	IN	OUT		
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT	No	NAME
8:30	start		53.5							
8:50	5.5	26.0	53.2	6.57	14.0		25.2	25.5	1	UTC-80HF
9:20		25.0	53.2	6.59	14.0	17.0	25.0	25.5	2	"
9:35	5.5	27.0	53.3	6.59	17.0	19.8	26.2	27.0	3	SC-8000
11:10		27.0	53.4	6.60	16.0		26.5	27.0		
11:40	5.5	25.0	53.2	6.61	14.0		25.4	25.7		
12:10	5.5	25.5	53.2	6.62	15.0		25.6	26.0		
12:20	6.4	26.0	53.2	6.62	15.0		26.2	26.2		

Cell No	TIME	PRESS	BRINE FLUX	time	P E M E A T E			CALCULATED		
					Flux	EC	PH	Conc.	Rej	Flux
1	8:50	5.5	4.0	30	44.1	1530				
	9:20				45.5	1390				
	10:10	5.5	1.6		36.1	1590				
	11:40	5.5			35.1	1490				
	12:20	6.4	1.6	20	32.5	1600				
2	:				42.1	2370				
	:				40.1	2120				
	:				38.1	2370				
	:				38.1	2090				
	:			20	34.1	1890				
3	:				18.1	2460				
	:				19.1	2230				
	:				17.5	1860				
	:				17.1	1760				
	:			20	16.5	1490	6.0			

H. change

H. change

M. change

3990
3350
3670

PRD; 91.11.22

RECORDING SHEET FOR R-6 EXPERIMENT-(M-2-2) DATE Dec. 9, 1991

TIME	PRESS	F E E D			COOLING SYS.		FEED TANK		CELL No	MEMBRANE NAME
		TEMP	EC	PH	TEMP.(°C)	TEMP.(°C)	IN	OUT		
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT		
:									6	SC-8000
:									8	NTR759HR
:									12	"
:									10	"

Cell No	TIME	PRESS	BRINE FLUX	time	P E M E A T E			CALCULATED		
					Flux	EC	PH	Conc.	Rej	Flux
					ml/scale	µS/cm	-	mg/l	%	cm ³ /m ² ·day
6 <i>Mem. Change</i>	:			30	18 /	2030				
	:				17 /	2070				
	:				17 /	1700				
	:				17 /	1640				
	:			20	15 /	1400	6.2			
8 <i>Mem. Change</i>	:				37 /	1340				
	:				37.5 /	1290				
	:				36.5 /	1640				
	:				35.5 /	1550				
	:			20	33.5 /	1270	5.2			
12 <i>Mem. Change</i>	:				39 /	1640				
	:				39 /	1570				
	:				34 /	1390				
	:				32.5 /	1280				
	:			20	30.5 /	1090	6.2			

10 30 34 3140
 32 2960
 20 29
 7-102
 PRO: 91.11.22 *m*

RECORDING SHEET FOR R-6 EXPERIMENT (P-3-1) DATE Dec. 10, 199

TIME	PRESS	F E D			COOLING SYS.		FEED TANK		CELL	MEMBRANE
		TEMP	EC	PH	TEMP.(°C)	TEMP.(°C)	IN	OUT		
10:10	5.5	25.0	53.1	6.46	12.0	19.5	25.0	24.8	1	SC8000
10:40	5.5	25.0	53.1	6.48	15.5	19.5	25.5	25.5	6	
11:10	5.5	25.2	53.1	6.51	15.0	18.2	25.2	25.2		
:										
:										
:										
:										
:										

110cl
34953

Cell No	TIME	PRESS	BRINE FLUX	time	P E M E A T E			CALCULATED		
					Flux	EC	PH	Conc.	Rej	Flux
					ml/scale	μ S/cm	-	mg/l	%	$m^3/m^2 \cdot day$
1	10:10	5.5	1.6	30	20.5	6750				
	10:40				21.5	7950				
	11:10				20	9210				
2	10:10	5.5	1.6	30	18.0	2780				
	:				18.5	2540				
	:				18	2520				
3	10:10	5.5	1.6	30	21	6250				
	:				21	2560				
	:				21	9550				
4	10:10	5.5	1.6	30	17	3150				
	:				18	3540				
	:				18	3690				
5	10:10	5.5	1.6	30	19.5	2290				
	:				18	2500				
	:				17	2550				
6	10:10	5.5	1.6	30	18.0	2790				
	:				19	2650				
	:				18	2840				

9:40 start

PRD; 91.11.22 mlt

RECORDING SHEET FOR R-6 EXPERIMENT (P-3-2) DATE 199

TIME	PRESS	F E D			COOLING SYS.		FEED TANK		CELL	MEMBRANE
		TEMP	EC	PH	TEMP.(°C)	TEMP.(°C)	TEMP.(°C)	TEMP.(°C)		
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT	No	NAME
:										
:										
:										
:										
:										

Cell No	TIME	PRESS	BRINE FLUX	time	P E M E A T E			CALCULATED		
					Flux	EC	PH	Conc.	Rej	Flux
	:	MPa	l/min	min	ml/scale	µS/cm	-	mg/l	%	m ³ /m ² .day
7	10:10	5.5	1.6	30	20/	2160				
	:				20/	2110		1091		
	:				19/	2190				
8	10:10	5.5	1.6	30	18.5/	2200				
	:				19.0/	2160				
	:				18/	2240				
9	10:10	5.5	1.6	30	20/	2490				
	:				19/	2530				
	:				19/	2450				
10	10:10	5.5	1.6	30	19/	3060				
	:				18/	3110				
	:				18.5/	3010				
11	10:10	5.5	1.6	30	20/	2390				
	:				19/	2500				
	:				19.5/	2430				
12	10:10	5.5	1.6	30	19.5/	3120		1634		
	:				19/	3110				
	:				19.0/	3090				

PRD: 91.11.22

RECORDING SHEET FOR R-6 EXPERIMENT-(P-4-1)

DATE Dec. 10, 199

TIME	PRESS	FEED			COOLING SYS. TEMP.(°C)		FEED TANK TEMP.(°C)		CELL No	MEMBRANE NAME
		TEMP	EC	PH	IN	OUT	IN	OUT		
12:40	5.5	25.2	53.0	6.53	15.0	18.8	25.7	26.3	1	SC-8000
:40	5.5	26.0	53.1	6.54	16.0	19.5	26.2	26.5	5	
13:10	5.5	26.0	53.0	6.55	17.0	20.0	26.5	26.7		6
:										
:										
:										
:										

Cell No	TIME	PRESS	BRINE FLUX	time	PERMEATE			CALCULATED		
					Flux	EC	PH	Conc.	Rej	Flux
	:	MPa	l/min	min	ml/scale	µS/cm	-	mg/l	%	m ³ /m ² .day
1	12:10		1	29	18/1	5240				
	:40			30	18/1	3360				
	13:10				19/1	3190	6.0			
2	12:10			29	17/1	2980				
	:40			30	18/1	2480				
	:10				18.5/1	2420	6.3			
3	12:10				18/1	9950				
	:40				18.5/1	4170				
	:				18.5/1	5100	6.2			
4	12:10				17/1	4270				
	:40				18/1	3680				
	:				18/1	3610	6.3			
5	12:10				17/1	2780				
	:40				17.5/1	2380				
	:				18.5/1	2240	6.2			
6	12:10				17/1	3240				
	:40				17/1	2630				
	:				18/1	2630	6.1			

12:10 29-1
 No. 3 Membrane change
 11/29 Add to spacer
 11/12 Membrane change standard record

PRO: 91.11.22

RECORDING SHEET FOR R-6 EXPERIMENT (P-4-2) DATE
Dec. 10, 199

TIME	PRESS	F E D			COOLING SYS.		FEED TANK		CELL	MEMBRANE
		TENP.	EC	PH	TEMP.(°C)		TEMP.(°C)			
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT	No	NAME
12:40									7	SC-8000
:									5	
:									12	
:										
:										
:										

Cell No	TIME	PRESS	BRINE FLUX	time	P E M E A T E			CALCULATED		
					Flux	EC	PH	Conc.	Rej	Flux
7	12:10				17.5	4.000				
	:40				18.1	2210				
	13:10				19.1	2130	6.3			
8	12:10				16.1	2710				
	:40				17.1	2260				
	13:10				18.1	2250	9.6			
9	12:10				17.1	2620				
	:40				18.1	2680				
	13:10				19.5	2450	6.9			
10	12:10				18.1	2310				
	:40				18.5	2420				
	13:10				19.1	2310	6.4			
11	12:10				17.1	2440				
	:40				18.5	1950				
	:				19.1	1860	6.1		949	
12	12:10				15.1	2200				
	:40				17.5	1750				
	:				17.1	1730	6.1		882	

PRD:91.11.22 *mla*

RECORDING SHEET FOR R-6 EXPERIMENT (M-3-1) DATE Dec. 11, 199

TIME	PRESS	F E E D			COOLING SYS. TEMP. (°C)		FEED TANK TEMP. (°C)		CELL No	MEMBRANE NAME
		TEMP	EC	PH	IN	OUT	IN	OUT		
:	MPa	°C	MS/cm	-						
10:15	5.5	25.0	60.8	6.54	13.0	18.5	25.0	25.5	1	UTC80HR
10:45	5.5	26.0	60.9	6.57	16.0	18.5	25.0	26.5	2	" 80HR
11:15	5.5	24.8	60.9	6.57	14.0	17.5	24.8	25.3	3	" 80HR
11:45	5.5	26.0	60.9	6.59	17	20.0	26.2	25.7		
12:00	6.4	27	60.9	6.59	15	16.5	26.2	26.6		
12:30	6.4	26.0	60.2	6.59	13.0	16.5	26.0	27.0		
12:30	6.4	25.0	60.2	6.60	13.0	16.0	25.5	25.7		
12:30	6.4	25.0	60.2	6.60	12.0	16.0	25.5	26.0		

Cell No	TIME	PRESS	BRINE FLUX	time	P E M E A T E			CALCULATED		
					Flux	EC	PH	Conc.	Rej	Flux
					ml/scale	μS/cm	-	mg/l	%	m ³ /m ² ·day
1	10:15	5.5	1.6	30	20/	802				
	10:45	"	"	"	18.5/	766				
	:	"	"	"	20/	748				
	12:00	6.4	1.6	30	26.7/	568				
	:	"	"	"	25.5/	576	6.6			
2	10:15				26/	1108				
	:				26.7/	1060				
	:				27/	1047				
	12:30				36/	823				
	:				34.5/	907	6.6			
3	:				18/	2610				
	:				18/	2466				
	:				18/	2470				
	:				/					
	:				/					

PRO: 91.11.22

RECORDING SHEET FOR R-6 EXPERIMENT (M-J-2) Dec. 11, 1991

TIME	PRESS	F E D			COOLING SYS.		FEED TANK		CELL	MEMBRANE
		TEMP.	EC	PH	TEMP.(°C)		TEMP.(°C)			
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT	No	NAME
:									4	NTR 759SW
:									5	SC8000
:									6	NTR 759HR

Cell No	TIME	PRESS	BRINE FLUX	time	P E M E A T E			CALCULATED		
					Flux	EC	PH	Conc.	Rej	Flux
:	:	MPa	l/min	min	ml/scale	μS/cm	-	mg/l	%	m ³ /m ² ·day
4	:				21.5/	1540				
	:				21.0/	1460				
	:				22/	1430				
	12:00				29/	1132				
	:				28/	1137	6.4			
5	:				14.5/	2890				
	:				14.5/	2820				
	:				15/	2820				
	12:00				20/	2130				
	:				19.5/	2220	6.0			
6	:				27.5/	1090				
	:				27.1/	1090				
	:				28/	1090				
	12:00				36/	890				
	:				35.5/	880	6.1			

PRO: 91.11.22

RECORDING SHEET FOR R-6 EXPERIMENT (M-3-3) DATE Dec. 11, 1991

TIME	PRESS	FEED			COOLING SYS. TEMP. (°C)		FEED TANK TEMP. (°C)		CELL No	MEMBRANE NAME
		TEMP. °C	EC $\mu S/cm$	PH	IN	OUT	IN	OUT		
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT	No	NAME
:									7	NTR759507
:									8	UTC80HR
:									9	HF

Cell No	TIME	PRESS MPa	BRINE FLUX l/min	time min	PERMEATE			CALCULATED		
					Flux ml/scale	EC $\mu S/cm$	PH	Conc. mg/l	Rej %	Flux $m^3/m^2 \cdot day$
							-			
7	:				22.0	3500				
	:				27.0	3070				
	:				21.0	3250				
	:				/					
	:				/					
8	:				29.0	2290				
	:				18.0	2260				
	:				20.0	2110				
	12:00				27.0	1712				
	:				25.0	1723	8.6			
9	:				28.0	1420				
	:				27.0	1420				
	:				28.0	1340				
	12:00				38.0	1095				
	:				36.5	1113	6.7			

PRD; 91.11.22 mls

RECORDING SHEET FOR R-6 EXPERIMENT (4-3-4) Dec. 11, 1991

TIME	PRESS	F E D			COOLING SYS.		FEED TANK		CELL	MEMBRANE
		TEMP	EC	PH	TEMP. (°C)		TEMP. (°C)			
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT	No	NAME
:									10	NTR759 HR
:									11	NTR759 SW
:									12	NTR759 HR

Cell No	TIME	PRESS	BRINE FLUX	time	P E M E A T E			CALCULATED		
					Flux	EC	PH	Conc.	Rej	Flux
:	:	MPa	l/min	min	ml/scale	µS/cm	-	mg/l	%	m ³ /m ² .day
10	:				24/	3730		(TEO (RT))		
	:				30/	3950				
	:				30/	3850				
	:				/					
	:				/					
	:				/					
11	:				20/	3340				
	:				21/	2990				
	:				20/	3120				
	:				/					
	:				/					
	:				/					
12	:				28/	3580				
	:				29/	3390				
	:				28/	3520				
	:				/					
	:				/					
	:				/					

PRO; 91.11.22 mda

RECORDING SHEET FOR R-6 EXPERIMENT (M-4-1) DATE DEC. 11 199

TIME	PRESS	F E D			COOLING SYS. TEMP.(°C)		FEED TANK TEMP.(°C)		CELL No	MEMBRANE NAME
		TEMP.	EC	PH	IN	OUT	IN	OUT		
13:00	6.4	25.0	60.8	6.6	13.0	16.8	25.2	25.8		
13:20	6.4	28.0	-	6.6	20.5	23.0	28.2	27.5		
...	6.4	31.0	-	6.6	24.0	26.0	30.9	29.8		

Cell No	TIME	PRESS	BRINE FLUX	time	P E M E A T E			CALCULATED		
					Flux	EC	PH	Conc.	Rej	Flux
		MPa	l/min	min	ml/scale	μS/cm	-	mg/l	%	m ³ /m ² .day
1	13:00	6.4	4.1	30	30 /	493				
	...				/					
2	13:00	6.4	4.0	30	40 /	742				
	...				/					
6	13:00	6.4	4.0	30	39 /	820				
	...				/					
9	13:00	6.4	4.0	30	43 /	945				
	...				/					

PRO; 91.11.22

RECORDING SHEET FOR R-6 EXPERIMENT (M-5-1) DATE Dec. 14, 199

9:20 start

TIME	PRESS	F E E D			COOLING SYS.		FEED TANK		CELL	MEMBRANE
		TEMP	EC	pH	TEMP.(°C)	TEMP.(°C)	IN	OUT		
:	MPa	°C	mS/cm	-	IN	OUT	IN	OUT	No	NAME
9:50	5.5	25.5	53.8	6.49	14.5	17.5	25.4	25.9	1	UTC-80HR
10:20	5.5	25.0	53.9	6.51	15.0	19.5	25.0	24.7	2	" HF
10:50 (10:53)	5.5 (6.4)	25.5	53.9	6.52	16.0	19.5	25.5	25.3	3	VTR759 HR
11:20	6.4	26.0	54.9	6.53	16.0	-	25.3	25.3		(CH) : change membr.
11:50	6.4	26.0	54.0	6.54	16.0	19.0	25.0	24.8		
12:20	5.5	26.0	53.7	6.54	17.0	19.7	25.7	25.3		
12:50	5.5	26		6.55	17.0		25.8			

Cell No	TIME	PRESS	BRINE FLUX	time	RE MEAT E			CALCULATED		
					Flux	EC	pH	Conc.	Rej	Flux
					ml / scale	µS/cm	-	mg/l	%	m ² /m ² ·day
1	9:50	5.5	1.6	30	271	397				
	10:20	"	"	"	271	436				
	10:50	6.4	"	"	435	370				
	11:20	6.4	1.6	"	341	350	6.35			
	11:50	5.5	4.0	"	27.5	358				
	12:20	"	"	"	271	376				
2	9:50	5.5	1.6	30	331	685				
	10:20	"	"	"	321	702				
	10:50	6.4	"	"	421	634				
	11:20	"	"	"	411	624	6.40			
	11:50	5.5	4.0	"	341	601				
	12:20	"	"	"	341	597				
3	9:50	5.5	1.6	30	34.5	1402				
	10:20	"	"	"	341	1442				
	10:50	6.4	"	"	441	1220				
	11:20	"	"	"	431	1164	6.2			
	:				/					
	:				/					

PRO; 91.11.22

RECORDING SHEET FOR R-6 EXPERIMENT (M-5-2) DATE Dec. 14, 199

TIME	PRESS	FEED			COOLING SYS. TEMP. (°C)		FEED TANK TEMP. (°C)		CELL No	MEMBRANE NAME
		TEMP	EC	DH	IN	OUT	IN	OUT		
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT	No	NAME
:									4	NTR759SW
:									5	SC-8000
:									6	NTR759HR
:										

Cell No	TIME	PRESS	BRINE FLUX	time	PE MEAT E			CALCULATED		
					Flux	EC	PH	Conc.	Rej	Flux
					ml/sec	MS/cm	-	mg/l	%	m ² /m ² ·day
4	9:50	5.5	1.6	30	27.8	900				
	10:20	"	"	"	27.1	931				
	10:50	6.4	"	"	36.1	875				
	11:20	"	"	"	35.1	872	6.4			
	11:50	5.5	4.0	30	28.1	880				
	12:20	"	"	"	29.1	862				
5	9:50	5.5	1.6	30	17.5	2220				
	10:20	"	"	"	18.1	2180				
	10:50	6.4	"	"	22.1	2000				
	11:20	"	"	"	22.1	1938	5.1			
	11:50	5.5	4.0	"	16.5	2090				
	12:20	5.5	4.0	"	17.1	2130				
6	9:50	5.5	1.6	30	34.4	770				
	10:20	"	"	"	35.1	773				
	10:50	6.4	"	"	45.1	726				
	11:20	"	"	"	45.1	7087	6.3			
	11:50	5.5	4.0	"	34.5	703				
	12:20	"	"	"	35.1	699				

PRD; 91.11.22 - mla

RECORDING SHEET FOR R-6 EXPERIMENT (17-5-3) DATE DEC. 14, 199

TIME	PRESS	F E E D			COOLING SYS.		FEED TANK		CELL	MEMBRANE
		TEMP	EC	PH	TEMP.(°C)		TEMP.(°C)			
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT	No	NAME
:									7	NTR7S9SW (CH)
:									8	UTC80HR (CH)
:									9	UTC80HR

Cell No	TIME	PRESS	BRINE FLUX	time	P E M E A T E			CALCULATED		
					Flux	EC	PH	Conc.	Rej	Flux
:	:	MPa	l/min	min	ml/scale	µS/cm	-	mg/l	%	m ² /m ² ·day
7	9:50	5.5	1.6	30	25%	2990				
	10:20	"	"	"	26/	2780				
	10:50	6.4	"	"	33/	2460				
	11:20	"	"	"	32/	2300	6.1			
	:					/				
8	9:50	5.5	1.6	30	27%	1660				
	10:20	"	"	"	29/	1550				
	10:50	6.4	"	"	31/	1360				
	11:20	"	"	"	31/	1260	6.5			
	11:50	5.5	4.0		/					
	12:20	"	"	"	/					
9	9:50	5.5	1.6	30	34.5/	671				
	10:20	"	"	"	35/	670				
	10:50	6.4	"	"	46/	607				
	11:20	"	"	"	45/	586	6.7			
	11:50	5.5	4.0	/	36/	572				
	12:20	"	"	"	39/	538				

PRO: 91.11.22

RECORDING SHEET FOR R-6 EXPERIMENT (M-5-4) DATE Dec. 14, 199

TIME	PRESS	F E E D			COOLING SYS.		FEED TANK		CELL	MEMBRANE
		TEMP	EC	DM	TEMP. (°C)		IN	OUT		
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT	No	NAME
:									10	NTR759HR
:									11	" SW
:									12	" HR
:										
:										
:										
:										
:										

(CH)
(CH)
(CH)

Cell No	TIME	PRESS	BRINE FLUX	time	P E M E A T E			CALCULATED		
					Flux	EC	pH	Conc.	Rej	Flux
					ml/scan	µS/cm	-	mg/l	%	m ² /m ² ·day
10	9:50	5.5	1.6	30	41/	4780				
	10:20	"	"	"	42/	4540				
	10:50	STOP			/	-				
	:				/					
	:				/					
	:				/					
11	9:50	5.5	1.6	30	24.5/	1330				
	10:20	"	"	"	25/	1260				
	10:50	6.4	"	"	32/	1056				
	11:20	"	"	"	32/	981	6.5			
	:				/					
	:				/					
12	9:50	5.5	1.6	30	36/	2700				
	10:20	"	"	"	26/	2630				
	10:50	6.4	"	"	47/	2260				
	11:20	"	"	"	46/	2120	6.3			
	:				/					
	:				/					

PRO; 91.11.22

RECORDING SHEET FOR R-6 EXPERIMENT (M-5-6) DATE DEC. 14, 199

TIME	PRESS	F E E D			COOLING SYS. TEMP.(°C)		FEED TANK TEMP.(°C)		CELL No	MEMBRANE NAME
		TEMP °C	EC mS/cm	pH	IN	OUT	IN	OUT		
12:50	6.4									
12:50		27.0	53.8	6.6	17.0	19.0	27.0	26.7		
13:20	6.4	22.5	53.9	6.6	17.0	20.2	27.0	26.8		
:										
:										
:										

Cell No	TIME	PRESS MPa	BRINE FLUX l/min	time min	P E M E A T E			CALCULATED		
					Flux ml/scale	EC μS/cm	pH	Conc. mg/l	Rej %	Flux m ² /m ² .day
1	12:50	6.4	4.0	30	38/	328				
2	12:50	"	"	"	45/	523				
4	12:50	"	"	"	39/	760				
6	12:50	"	"	"	49/	592				
9	12:50	"	"	"	52/	482				
:					/					
:					/					
:					/					
:					/					
:					/					
:					/					
:					/					
:					/					
:					/					
:					/					

PRD; 91.11.22 mla

RECORDING SHEET FOR R-6 EXPERIMENT (4-6-1) DATE Dec. 16, 1991

start
8:45

TIME	PRESS	F E E D			COOLING SYS.		FEED TANK		CELL	MEMBRANE
		TEMP.	EC	PH	TEMP.(°C)	TEMP.(°C)	IN	OUT		
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT	No	NAME
9:15	4.9	25.0	54.0	6.47	12.0	20.0	25.0	25.0	1	DTC 80HR
9:45	4.9	26.0	53.8	6.49	13.0	21.5	25.8	25.4	2	" HF
10:20	5.9	25.0	53.9	6.51	14.0	17.5	24.0	24.3	3	NTR 759HR
10:50	5.9	25.0	54.0	6.52	15.0		24.0	23.9		
:										
:										

Cell No	TIME	PRESS	BRINE FLUX	time	PERMEATE			CALCULATED		
					Flux	EC	PH	Conc.	Rej.	Flux
	:	MPa	l/min	min	ml/scale	µS/cm	-	mg/l	%	m ³ /m ² ·day
1	9:15	4.9	1.6	30	201	489				
	9:45	"	"	"	207	462				
	10:20	5.9	"	"	291	375				
	10:50	"	"	"	301	373	6.0			
	:					/				
2	9:15	4.9	1.6	30	251	788				
	9:45	"	"	"	251	790				
	10:20	5.9	"	"	351	643				
	10:50	"	"	"	361	620	5.0			
	:					/				
3	9:15	4.9	1.6	3.0	281	1511				
	9:45	"	"	"	281	1488				
	10:20	5.9	"	"	401	1190				
	10:50	"	"	"	40 ⁵ 1	1185	6.0			
	:					/				

f. 7. 10. 8. 1.2 (CH)
 298 753 30 119
 SW 114 HR
 119
 118

PRO: 91.11.22

RECORDING SHEET FOR R-6 EXPERIMENT (11-6-2) DATE Dec. 16, 1991

TIME	PRESS	F E E D			COOLING SYS. TEMP.(°C)		FEED TANK TEMP.(°C)		CELL No	MEMBRANE NAME
		TEMP	EC	pH	IN	OUT	IN	OUT		
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT		
:									4	NTR759ST
:									5	SC-8000
:									6	NTR759HR

Cell No	TIME	PRESS	BRINE FLUX	time	PERMEATE			CALCULATED		
					Flux	EC	pH	Conc.	Rej	Flux
					ml / scale	µ S/cm	-	mg/l	%	cm ³ / m ² · day
4	9:15	4.9	1.6	30	22 /	1070				
	9:45	"	"	"	21 /	1102				
	10:20	5.9	"	"	30.5 /	915				
	10:50	"	"	"	31 /	917	6.3			
	:				/					
5	9:15	4.9	1.6	30	14 /	2690				
	9:45	"	"	"	14 /	2670				
	10:20	5.9	"	"	19 /	2190				
	10:50	"	"	"	19.5 /	2130	5.9			
	:				/					
6	9:15	4.9	1.6	30	27 /	929				
	9:45	"	"	"	26.5 /	933				
	10:20	5.9	"	"	38 /	736				
	10:50	"	"	"	39 /	745	6.1			
	:				/					

PRD; 91.11.22

RECORDING SHEET FOR R-6 EXPERIMENT (4-6-3) DATE Dec. 13, 1991

TIME	PRESS	F E E D			COOLING SYS. TEMP.(°C)		FEED TANK TEMP.(°C)		CELL No	MEMBRANE NAME
		TEMP. °C	EC MS/cm	PH	IN	OUT	IN	OUT		
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT		
:									7	NTR 759 STD (CH)
:									8	JTC 80HR (CH)
:									9	JTC 80HR

Cell No	TIME	PRESS MPa	BRINE FLUX l/min	time min	PERMEATE			CALCULATED		
					Flux ml/scale	EC μS/cm	PH	Conc. mg/l	Rej %	Flux m³/m²·day
7	9:15	4.9	1.6	30	21/	1000				
	9:45	"	"	"	20/	948				
	10:20	5.9	"	"	28 ⁵ /	743				
	10:50	"	"	"	29/	708	6.1			
	:					/				
8	9:15	4.9	1.6	30	26/	1445				
	9:45	"	"	"	26/	1340				
	10:20	5.9	"	"	36/	1112				
	10:50	"	"	"	37/	1105	9.4			
	:					/				
9	9:15	4.9	1.6	30	22 ⁵ /	768				
	9:45	"	"	"	27 ⁰ /	758				
	10:20	5.9	"	"	38 ⁵ /	617				
	10:50	"	"	"	39 ⁵ /	630	6.8			
	:					/				

PRD; 91.11.22 mls

RECORDING SHEET FOR R-6 EXPERIMENT (M-6-4) DATE Dec. 16, 199

TIME	PRESS	F E E D			COOLING SYS. TEMP.(°C)		FEED TANK TEMP.(°C)		CELL No	MEMBRANE NAME
		TEMP	EC	PH	IN	OUT	IN	OUT		
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT	No	NAME
:									10	NTR759HR (H)
:									11	NTR759 ^{SW}
:									12	SC-8000 (H)

Cell No	TIME	PRESS	BRINE FLUX	time	PERMEATE			CALCULATED		
					Flux	EC	PH	Conc.	Rej.	Flux
	:	MPa	l/min	min	ml/scale	µS/cm	-	mg/l	%	m ³ /m ² ·day
10	9:15	4.9	1.6	30	32/	3450				
	9:45	"	"	"	32/	3350				
	:				/					
	:				/					
	:				/					
11	9:15	4.9	1.6	30	22/	994				
	9:45	"	"	"	21/	1013				
	10:20	5.9	"	"	29/	860				
	10:50	"	"	"	29 ⁵ /	863	6.2			
	:				/					
12	9:15	4.9	1.6	30	15/	2650				
	9:45	"	"	"	14/	2740				
	10:20	5.9	"	"	21/	2690				
	10:50	"	"	"	21/	2730	6.3			
	:				/					

PRD; 91.11.22 mba

RECORDING SHEET FOR R-6 EXPERIMENT (M-7-1) DATE Dec. 16, 1991

Start
12:10

TIME	PRESS	F E E D			COOLING SYS. TEMP.(°C)		FEED TANK TEMP.(°C)		CELL No	MEMBRANE NAME
		TEMP °C	EC MS/cm	DH	IN	OUT	IN	OUT		
12:30	5.5	27.0	47.2	6.46	18.0	21.0	26.8	26.5	1	UTC-80HR
13:10	6.5	25.5	47.4	6.47	12.0	15.5	25.3	26.1	2	" HF
13:40	6.5	26.0	47.4	6.48	16.0	18.5	26.0	25.8	3	NTR 759HR
14:10	"	29.0	47.3	6.48	21.0	24.5	29.0	27.3	4	" SW
:									5	SC 8010
:									6	NTR 759HR

Cell No	TIME	PRESS MPa	BRINE FLUX l/min	time min	PERMEATE			CALCULATED		
					Flux ml/scale	EC μ S/cm	pH	Conc. mg/l	Rej %	Flux $m^3/m^2 \cdot day$
1	12:30	5.5	1.6	30	33/	307				
	13:10	6.4	"	"	39/	259				
	13:40	"	"	"	41/	252	6.2			
2	12:30	5.5	1.6	30	40/	518				
	13:10	6.4	"	"	50/	460				
	13:40	"	"	"	50/	451	6.4			
3	12:30	5.5	1.6	30	45/	971				
	13:10	6.4	"	"	54/	822				
	13:40	"	"	"	55/	840	6.2			
4	12:30	5.5	1.6	30	35/	740				
	13:10	6.4	"	"	42/	669				
	13:40	"	"	"	43/	671	6.5			
5	12:30	5.5	1.6	30	22/	1750				
	13:10	6.4	"	"	26/	1510				
	13:40	"	"	"	25.5/	1530	5.7			
6	12:30	5.5	"	"	44/	620				
	:	6.4	"	"	52/	527				
	:	"	"	"	52.5/	545	5.9			

PRD; 91.11.22 ~~mlb~~

RECORDING SHEET FOR R-6 EXPERIMENT (4-7-2) DATE Dec 16, 199

TIME	PRESS	F E E D			COOLING SYS. TEMP.(°C)		FEED TANK TEMP.(°C)		CELL No	MEMBRANE NAME
		TEMP. °C	EC $\mu S/cm$	PH	IN	OUT	IN	OUT		
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT	No	NAME
:									7	NTR759SW
:									8	DTC80HR
:									9	DTC80HF
:									11	NTR759SW
:									12	SC 8000

Cell No	TIME	PRESS MPa	BRINE FLUX l/min	time min	PERMEATE			CALCULATED		
					Flux $ml/scale$	EC $\mu S/cm$	PH	Conc. mg/l	Rej %	Flux $m^3/m^2 \cdot day$
					ml/scale	$\mu S/cm$	-	mg/l	%	$m^3/m^2 \cdot day$
7	12:30	5.5	1.6	30	32/	534				
	13:10	6.4	"	"	38/	470				
	13:40	"	"	"	39/	467	6.0			
8	12:10	5.5	1.6	30	42/	812				
	12:40	6.4	"	"	48/	742				
	13:40	"	"	"	49/	739	7.4			
9	12:30	5.5	1.6	30	44/	509				
	13:10	6.4	"	"	53/	422				
	13:40	"	"	"	54/	435	6.7			
11	12:30	5.5	1.6	30	33/	676				
	13:10	6.4	"	"	39/	603				
	13:40	"	"	"	40/	604	6.5			
12	12:30	5.5	1.6	30	23/	2330				
	13:10	6.4	"	"	27/	2020				
	13:40	"	"	"	27.5/	2040	6.7			
:					/					
:					/					
:					/					

PRO: 91.11.22 - mla

RECORDING SHEET FOR R-6 EXPERIMENT (4-8-1)

DATE
DEC. 12, 1991

start
11:19

TIME	PRESS	F E E D			COOLING SYS.		FEED TANK		CELL	MEMBRANE
		TEMP	EC	pH	TEMP.(°C)	TEMP.(°C)	IN	OUT		
:	MPa	°C	MS/cm	-	IN	OUT	IN	OUT	No	NAME
11:40	1.5	25.0	2.96	6.56	15.0	21.0	25.2	25.1	1	DTC 70
12:10	1.5	24.0	2.97	6.6	15.0	20.5	24.5	24.2	12	
13:00	1.5	25.0	2.98	6.6	17.0	20.5	25.5			
13:30	1.5	25.0	2.98	6.6	16.0		25.2	25.2		
14:10	1.4									

Cell No	TIME	PRESS	BRINE FLUX	time	P E M E A T E			CALCULATED		
					Flux	EC	pH	Conc.	Rej	Flux
					ml/scale	µS/cm	-	mg/l	%	cm ³ /m ² ·day
1	11:40	1.5	1.6	30	46.5	106				
	12:10	"	"	"	48.1	99.4				
	13:00	1.5	4.0	31	46.1	75				
2	11:40	1.5	1.6	30	43.1	207				
	12:10	"	"	"	45.1	194				
	13:00				1					
3	11:40	1.5	1.6	30	39.1	145				
	12:10	"	"	"	40.1	138				
	13:00	1.5	4.0	31	41.1	99.6				
4	11:40	1.5	1.6	30	38.1	75.7				
	12:10	"	"	"	40.1	71.9				
	13:00				40.1	54				
5	11:40	1.5	1.6	30	38.1	106				
	12:10	"	"	"	39.1	96.9				
	13:00	"	4.0	31	39.1	77				
6	11:40	1.5	1.6	30	38.1	114				
	12:10	"	"	"	39.1	107				
	13:00	"	4.0	31	38.1	86				

PRO; 91.11.22 mls

RECORDING SHEET FOR R-6 EXPERIMENT (7-8-2) DATE Dec. 12, 1991

TIME	PRESS	FEED			COOLING SYS. TEMP. (°C)		FEED TANK TEMP. (°C)		CELL No	MEMBRANE NAME
		TEMP. °C	EC $\mu S/cm$	PH	IN	OUT	IN	OUT		
:	MPa	°C	$\mu S/cm$	-	IN	OUT	IN	OUT		
:										
:										
:										
:										
:										
:										

Cell No	TIME	PRESS MPa	BRINE FLUX l/min	time min	PERMEATE			CALCULATED		
					Flux $ml/scan$	EC $\mu S/cm$	PH	Conc. mg/l	Rej %	Flux $m^3/m^2 \cdot day$
7	11:40	1.5	1.6	30	40 /	156				
	12:10	"	"	"	41.5 /	150				
	13:00				42 /					
8	11:40	1.5	1.6	30	44 /	165				
	12:10	"	"	"	45 /	154				
	13:00				46 /					
9	11:40	1.5	1.6	30	38 /	152				
	12:10	"	"	"	39 /	146				
	13:00	1.5	4.0	31	40 /	112				
10	11:40	1.5	1.6	30	42.5 /	169				
	12:10	"	"	"	44 /	162				
	13:00				45 /					
12	11:40	1.5	1.6	30	42 /	134				
	12:10	"	"	"	42.5 /	126				
	13:00	1.5	4.0	31	42 /	100				
	13:30	"	"	39	41 /					
:					41 /					
:					42 /					

PRO; 91.11.22

RECORDING SHEET FOR R-6 EXPERIMENT (4-8-3) DATE Dec. 12, 1991

TIME	PRESS	FEED			COOLING SYS. TEMP. (°C)		FEED TANK TEMP. (°C)		CELL No	MEMBRANE NAME
		TEMP. °C	EC MS/cm	PH	IN	OUT	IN	OUT		
14:15	1.5	25.5	2.99	6.6	18.0	—	26.0	25.9		
:										
:										
:										
:										
:										

Cell No	TIME	PRESS MPa	BRINE FLUX l/min	time min	PERMEATE			CALCULATED		
					Flux ml/scale	EC μ S/cm	PH	Conc. mg/l	Rej %	Flux $m^3/m^2 \cdot day$
1	13:30	1.5	4.0	30	45/	72.4				
	14:10	1.5	2.0		37.5/	74.2				
	:				/					
3	13:30	1.5	4.0	30	37.5/	98.0				
	:				25.0/	138				
	:				/					
4	13:30	1.5	4.0	30	37/	54.0				
	:				32/	60.7				
	:				/					
5	13:30	1.5	4.0	30	38/	85.4				
	:				32/	102				
	:				/					
6	13:30	1.5	4.0	30	38/	110				
	:				23/	92				
	:				/					
9	13:30	1.5	4.0	30	32.5/	99.1				
	:				/					
	:				/					

PRO; 91.11.22

M9112YY

RESULT OF EXPERIMENT (MAIN)

DATANO	MEMBLNE	FEED				FEED					
		CONC	PRES	TEMP	CELS	FLUX	EC	FLOW	CONC	REJ	FLUX
911216B	NTR759HR	30573	6.5	25.5	6 *	52.0	527	1.6	259	99.15	1.628
911216B	NTR759HR	30573	6.5	26.0	6 *	52.5	545	1.6	268	99.12	1.643
911216B	NTR759HR	30573	6.5	25.5	3 *	54.0	822	1.6	411	98.66	1.690
911216B	NTR759HR	30573	6.5	26.0	3 *	55.0	840	1.6	420	98.63	1.722
911216B	NTR759HR	30573	5.5	27.0	6 *	44.0	620	1.6	307	99.00	1.377
911216B	NTR759HR	30573	5.5	27.0	3 *	45.0	971	1.6	488	98.40	1.409
911216A	NTR759HR	35589	4.9	25.0	6 *	27.0	929	1.6	466	98.69	0.845
911216A	NTR759HR	35589	4.9	26.0	6 *	26.5	933	1.6	468	98.68	0.829
911216A	NTR759HR	35589	4.9	26.0	3 *	28.0	1488	1.6	759	97.87	0.876
911216A	NTR759HR	35589	4.9	25.0	3 *	28.0	1511	1.6	772	97.83	0.876
911216A	NTR759HR	35589	4.9	26.0	10 *	32.0	3350	1.6	1,759	95.06	1.002
911216A	NTR759HR	35589	4.9	25.0	10 *	32.0	3450	1.6	1,813	94.91	1.002
911214A	NTR759HR	35547	5.5	25.5	6 *	34.5	770	1.6	384	98.92	1.080
911214A	NTR759HR	35547	5.5	25	6 *	35.0	773	1.6	386	98.91	1.096
911209	NTR759HR	35060	5.5	25	12 *	33.5	1280	1.6	650	98.15	1.049
911214A	NTR759HR	35547	5.5	25.5	3 *	34.5	1402	1.6	714	97.99	1.080
911209	NTR759HR	35060	5.5	27	12 *	34.0	1390	1.6	708	97.98	1.064
911214A	NTR759HR	35547	5.5	25	3 *	34.0	1448	1.6	738	97.92	1.064
911209	NTR759HR	35060	5.5	25	8 *	35.5	1550	1.6	792	97.74	1.111
911209	NTR759HR	35060	5.5	27	8 *	36.0	1640	1.6	840	97.60	1.127
911214A	NTR759HR	35547	5.5	25	12 *	26.0	2630	1.6	1,369	96.15	0.814
911214A	NTR759HR	35547	5.5	25.5	12 *	36.0	2700	1.6	1,407	96.04	1.127
911209	NTR759HR	35060	5.5	25	10 *	32.0	2990	1.6	1,564	95.54	1.002
911209	NTR759HR	35060	5.5	27	10 *	34.0	3140	1.6	1,645	95.31	1.064
911214A	NTR759HR	35547	5.5	25	10 *	42.0	4540	1.6	2,409	93.22	1.315
911214A	NTR759HR	35547	5.5	25.5	10 *	41.0	4780	1.6	2,540	92.85	1.283
911214A	NTR759HR	35547	5.5	26	6 *	34.5	703	4.0	349	99.02	1.080
911214A	NTR759HR	35547	5.5	26	6 *	35.0	699	4.0	347	99.02	1.096
911209	NTR759HR	35060	5.5	25	8 *	37.5	1290	4.0	655	98.13	1.174
911209	NTR759HR	35060	5.5	26	8 *	37.0	1340	4.0	681	98.06	1.158
911209	NTR759HR	35060	5.5	25	12 *	39.0	1520	4.0	776	97.79	1.221
911209	NTR759HR	35060	5.5	26	12 *	39.0	1640	4.0	840	97.60	1.221
911208	NTR759HR	35076	5.5	27.0	2 *	28.0	2010	4.0	1,037	97.04	1.315
911208	NTR759HR	35076	5.5	26.0	2 *	27.8	2020	4.0	1,042	97.03	1.305
911208	NTR759HR	35076	5.5	26.0	2 *	28.5	2040	4.0	1,053	97.00	1.338
911208	NTR759HR	35076	5.5	26.0	1 *	29.0	2350	4.0	1,219	96.52	1.362
911208	NTR759HR	35076	5.5	26.0	1 *	28.0	2380	4.0	1,235	96.48	1.315
911208	NTR759HR	35076	5.5	27.0	1 *	28.0	2460	4.0	1,278	96.36	1.315
911216A	NTR759HR	35589	5.9	25.0	6 *	38.0	736	1.6	366	98.97	1.189
911216A	NTR759HR	35589	5.9	25.0	6 *	39.0	745	1.6	371	98.96	1.221
911216A	NTR759HR	35589	5.9	25.0	3 *	40.5	1185	1.6	600	98.31	1.268
911216A	NTR759HR	35589	5.9	25.0	3 *	40.0	1190	1.6	603	98.31	1.252
911214A	NTR759HR	35547	6.4	26	6 *	45.0	707	1.6	351	99.01	1.409
911214A	NTR759HR	35547	6.4	25.5	6 *	45.0	726	1.6	361	98.98	1.409
911209	NTR759HR	35060	6.4	26	12 *	45.0	1090	1.6	550	98.43	1.409
911214A	NTR759HR	35547	6.4	26	3 *	43.0	1164	1.6	589	98.34	1.346
911214A	NTR759HR	35547	6.4	25.5	3 *	44.0	1220	1.6	618	98.26	1.377
911209	NTR759HR	35060	6.4	26	8 *	50.3	1270	1.6	645	98.16	1.573
911214A	NTR759HR	35547	6.4	26	12 *	46.0	2120	1.6	1,095	96.92	1.440
911214A	NTR759HR	35547	6.4	25.5	12 *	47.0	2260	1.6	1,170	96.71	1.471
911209	NTR759HR	35060	6.4	26	10 *	43.5	2360	1.6	1,224	96.51	1.362

M9112YY

RESULT OF EXPERIMENT (MAIN)
FEED

DATANO	MEMBLNE	CONC	PRES	TEMP	CELS	FLUX	EC	FEED FLOW	CONC	REJ	FLUX
911214A	NTR759HR	35547	6.4	27	6 *	49.0	592	4.0	292	99.18	1.534
911208	NTR759HR	35076	6.4	27.0	2 *	36.4	1710	4.0	877	97.50	1.709
911208	NTR759HR	35076	6.4	27.0	2 *	36.0	1770	4.0	909	97.41	1.690
911208	NTR759HR	35076	6.4	27.0	1 *	36.4	2030	4.0	1.047	97.02	1.709
911208	NTR759HR	35076	6.4	27.0	1 *	36.0	2080	4.0	1.074	96.94	1.690
911211B	NTR759HR	40984	6.4	28.0	6 *	39.0	820	4.0	410	99.00	1.221
911211A	NTR759HR	41018	5.5	24.8	6 *	28.0	1090	1.6	550	98.66	0.876
911211A	NTR759HR	41018	5.5	25	6 *	27.5	1090	1.6	550	98.66	0.861
911211A	NTR759HR	41018	5.5	26	6 *	27.0	1090	1.6	550	98.66	0.845
911211A	NTR759HR	41018	5.5	26	12 *	29.0	3390	1.6	1.780	95.66	0.908
911211A	NTR759HR	41018	5.5	24.8	12 *	28.0	3520	1.6	1.851	95.49	0.876
911211A	NTR759HR	41018	5.5	25	12 *	28.0	3580	1.6	1.884	95.41	0.876
911211A	NTR759HR	41018	5.5	25	10 *	24.0	3730	1.6	1.965	95.21	0.751
911211A	NTR759HR	41018	5.5	24.8	10 *	30.0	3850	1.6	2.031	95.05	0.939
911211A	NTR759HR	41018	5.5	26	10 *	30.0	3950	1.6	2.086	94.91	0.939
911211A	NTR759HR	41018	6.4	26	6 *	36.0	890	1.6	446	98.91	1.127
911211A	NTR759HR	41018	6.4	25	6 *	35.5	890	1.6	446	98.91	1.111
911216B	NTR759SW	30573	5.5	27.0	7 *	32.0	534	1.6	263	99.14	1.002
911216B	NTR759SW	30573	5.5	27.0	11 *	33.0	676	1.6	336	98.90	1.033
911216B	NTR759SW	30573	5.5	27.0	4 *	35.0	740	1.6	368	98.80	1.096
911216B	NTR759SW	30573	6.5	25.5	7 *	38.0	470	1.6	230	99.25	1.189
911216B	NTR759SW	30573	6.5	26.0	7 *	39.0	467	1.6	229	99.25	1.221
911216B	NTR759SW	30573	6.5	25.5	11 *	39.0	603	1.6	298	99.03	1.221
911216B	NTR759SW	30573	6.5	26.0	11 *	40.0	604	1.6	299	99.02	1.252
911216B	NTR759SW	30573	6.5	25.5	4 *	42.0	669	1.6	332	98.91	1.315
911216B	NTR759SW	30573	6.5	26.0	4 *	43.0	671	1.6	333	98.91	1.346
911216A	NTR759SW	35589	4.9	26.0	7 *	20.0	948	1.6	476	98.66	0.626
911216A	NTR759SW	35589	4.9	25.0	11 *	22.0	994	1.6	500	98.60	0.689
911216A	NTR759SW	35589	4.9	25.0	7 *	21.0	1000	1.6	503	98.59	0.657
911216A	NTR759SW	35589	4.9	26.0	11 *	21.0	1013	1.6	510	98.57	0.657
911216A	NTR759SW	35589	4.9	25.0	4 *	22.0	1070	1.6	540	98.48	0.689
911216A	NTR759SW	35589	4.9	26.0	4 *	21.0	1102	1.6	557	98.43	0.657
911214A	NTR759SW	35547	5.5	25.5	4 *	27.5	900	1.6	451	98.73	0.861
911214A	NTR759SW	35547	5.5	25	4 *	27.0	931	1.6	467	98.69	0.845
911214A	NTR759SW	35547	5.5	25	11 *	25.0	1260	1.6	639	98.20	0.783
911214A	NTR759SW	35547	5.5	25.5	11 *	24.5	1330	1.6	676	98.10	0.767
911214A	NTR759SW	35547	5.5	25	7 *	26.0	2780	1.6	1.450	95.92	0.814
911214A	NTR759SW	35547	5.5	25.5	7 *	25.0	2990	1.6	1.564	95.60	0.783
911214A	NTR759SW	35547	5.5	26	4 *	29.0	862	4.0	432	98.78	0.908
911214A	NTR759SW	35547	5.5	26	4 *	28.0	880	4.0	441	98.76	0.876
911208	NTR759SW	35076	5.5	26.0	6 *	18.2	2080	4.0	1.074	96.94	0.854
911208	NTR759SW	35076	5.5	26.0	6 *	18.0	2080	4.0	1.074	96.94	0.845
911208	NTR759SW	35076	5.5	27.0	6 *	18.5	2110	4.0	1.090	96.89	0.869
911208	NTR759SW	35076	5.5	26.0	3 *	18.5	2960	4.0	1.547	95.59	0.869
911208	NTR759SW	35076	5.5	26.0	3 *	18.7	3010	4.0	1.574	95.51	0.878
911208	NTR759SW	35076	5.5	27.0	3 *	18.5	3220	4.0	1.688	95.19	0.869
911216A	NTR759SW	35589	5.9	25.0	7 *	29.0	708	1.6	352	99.01	0.908
911216A	NTR759SW	35589	5.9	25.0	7 *	28.5	743	1.6	370	98.96	0.892
911216A	NTR759SW	35589	5.9	25.0	11 *	29.0	860	1.6	431	98.79	0.908
911216A	NTR759SW	35589	5.9	25.0	11 *	29.5	863	1.6	432	98.79	0.923
911216A	NTR759SW	35589	5.9	25.0	4 *	31.0	917	1.6	460	98.71	0.970

M9112YY

RESULT OF EXPERIMENT (MAIN)

DATANO	MEMBLENE	FEED			FEED							
		CONC	PRES	STEMP	CELS	FLUX	EC	FLOW	CONC	REJ	FLUX	
911216A	NTR759SW	35589	5.9	25.0	4	*	30.5	915	1.6	459	98.71	0.955
911214A	NTR759SW	35547	6.4	25.5	4	*	36.0	875	1.6	438	98.77	1.127
911214A	NTR759SW	35547	6.4	26	4	*	35.0	872	1.6	437	98.77	1.096
911214A	NTR759SW	35547	6.4	26	11	*	32.0	981	1.6	493	98.61	1.002
911214A	NTR759SW	35547	6.4	25.5	11	*	32.0	1056	1.6	533	98.50	1.002
911214A	NTR759SW	35547	6.4	26	7	*	32.0	2300	1.6	1,192	96.65	1.002
911214A	NTR759SW	35547	6.4	25.5	7	*	33.0	2460	1.6	1,278	96.40	1.033
911214A	NTR759SW	35547	6.4	27	4	*	39.0	760	4.0	379	98.93	1.221
911208	NTR759SW	35076	6.4	27.0	6	*	24.0	1830	4.0	941	97.32	1.127
911208	NTR759SW	35076	6.4	27.0	6	*	23.0	1870	4.0	962	97.26	1.080
911211A	NTR759SW	41018	5.5	24.8	4	*	22.0	1430	1.6	729	98.22	0.689
911211A	NTR759SW	41018	5.5	26	4	*	21.0	1460	1.6	745	98.18	0.657
911211A	NTR759SW	41018	5.5	25	4	*	21.5	1540	1.6	787	98.08	0.673
911211A	NTR759SW	41018	5.5	26	11	*	21.0	2990	1.6	1,564	96.19	0.657
911211A	NTR759SW	41018	5.5	26	7	*	23.0	3070	1.6	1,607	96.08	0.720
911211A	NTR759SW	41018	5.5	24.8	11	*	20.0	3120	1.6	1,634	96.02	0.626
911211A	NTR759SW	41018	5.5	24.8	7	*	21.0	3250	1.6	1,704	95.85	0.657
911211A	NTR759SW	41018	5.5	25	11	*	20.0	3340	1.6	1,753	95.73	0.626
911211A	NTR759SW	41018	5.5	25	7	*	22.0	3500	1.6	1,840	95.51	0.689
911211A	NTR759SW	41018	6.4	26	4	*	29.0	1132	1.6	572	98.61	0.908
911211A	NTR759SW	41018	6.4	25	4	*	28.0	1137	1.6	575	98.60	0.876
911216B	SC8000	30573	5.5	27.0	5	*	22.0	1750	1.6	898	97.06	0.589
911216B	SC8000	30573	5.5	27.0	12	*	23.0	2330	1.6	1,208	96.05	0.720
911216B	SC8000	30573	6.5	25.5	5	*	26.0	1510	1.6	771	97.48	0.814
911216B	SC8000	30573	6.5	26.0	5	*	25.5	1530	1.6	782	97.44	0.798
911216B	SC8000	30573	6.5	26.0	12	*	27.5	2040	1.6	1,053	96.56	0.861
911216B	SC8000	30573	6.5	25.5	12	*	27.0	2080	1.6	1,074	96.49	0.845
911216A	SC8000	35589	4.9	25.0	12	*	15.0	2650	1.6	1,380	96.12	0.470
911216A	SC8000	35589	4.9	26.0	5	*	14.0	2670	1.6	1,391	96.09	0.438
911216A	SC8000	35589	4.9	25.0	5	*	14.0	2690	1.6	1,402	96.06	0.438
911216A	SC8000	35589	4.9	26.0	12	*	14.0	2740	1.6	1,428	95.99	0.438
911209	SC8000	35060	5.5	25	6	*	17.0	1640	1.6	840	97.60	0.532
911209	SC8000	35060	5.5	27	6	*	17.0	1700	1.6	872	97.51	0.532
911210B	SC8000	34901	5.5	26	12	*	17.0	1730	1.6	888	97.46	0.532
911210B	SC8000	34901	5.5	26	12	*	17.5	1750	1.6	898	97.43	0.548
911209	SC8000	35060	5.5	25	3	*	17.0	1760	1.6	904	97.42	0.532
911209	SC8000	35060	5.5	27	3	*	17.5	1860	1.6	957	97.27	0.548
911210B	SC8000	34901	5.5	26	11	*	19.0	1860	1.6	957	97.26	0.595
911210B	SC8000	34901	5.5	26	11	*	18.5	1950	1.6	1,005	97.12	0.579
911210A	SC8000	34953	5.5	25	7	*	20.0	2110	1.6	1,090	96.88	0.626
911210B	SC8000	34901	5.5	26	7	*	19.0	2130	1.6	1,101	96.85	0.595
911214A	SC8000	35547	5.5	25	5	*	18.0	2180	1.6	1,128	96.83	0.563
911210A	SC8000	34953	5.5	25	7	*	20.0	2160	1.6	1,117	96.80	0.626
911210A	SC8000	34953	5.5	25	8	*	19.0	2160	1.6	1,117	96.80	0.595
911214A	SC8000	35547	5.5	25.5	5	*	17.5	2220	1.6	1,149	96.77	0.548
911210A	SC8000	34953	5.5	25	7	*	19.0	2190	1.6	1,133	96.76	0.595
911210A	SC8000	34953	5.5	25	8	*	18.5	2200	1.6	1,138	96.74	0.579
911210B	SC8000	34901	5.5	26	7	*	18.0	2210	1.6	1,144	96.72	0.563
911210A	SC8000	34953	5.5	25	8	*	18.0	2240	1.6	1,160	96.68	0.563
911210B	SC8000	34901	5.5	26	5	*	18.5	2240	1.6	1,160	96.68	0.579
911210B	SC8000	34901	5.5	26	8	*	18.0	2250	1.6	1,165	96.66	0.563

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RESULT OF EXPERIMENT (MAIN)

DATANO	MEMBLNE	FEED					FEED				
		CONC	PRES	TEMP	CELS	FLUX	EC	FLOW	CONC	REJ	FLUX
911210B	SC8000	34901	5.5	26	8 *	17.0	2260	1.6	1.170	96.65	0.532
911210A	SC8000	34953	5.5	25	5 *	19.5	2290	1.6	1.186	96.61	0.610
911210B	SC8000	34901	5.5	26	10 *	19.0	2310	1.6	1.197	96.57	0.595
911210B	SC8000	34901	5.5	26	5 *	17.5	2380	1.6	1.235	96.46	0.548
911210A	SC8000	34953	5.5	25	11 *	20.0	2390	1.6	1.240	96.45	0.626
911210B	SC8000	34901	5.5	26	2 *	18.5	2420	1.6	1.256	96.40	0.579
911210B	SC8000	34901	5.5	26	10 *	18.5	2420	1.6	1.256	96.40	0.579
911210A	SC8000	34953	5.5	25	11 *	19.5	2430	1.6	1.262	96.39	0.610
911210B	SC8000	34901	5.5	26	9 *	19.5	2450	1.6	1.272	96.36	0.610
911210A	SC8000	34953	5.5	25	9 *	19.0	2450	1.6	1.272	96.36	0.595
911210A	SC8000	34953	5.5	25	9 *	20.0	2470	1.6	1.283	96.33	0.626
911210B	SC8000	34901	5.5	26	2 *	18.0	2480	1.6	1.288	96.31	0.563
911210A	SC8000	34953	5.5	25	11 *	19.0	2500	1.6	1.299	96.28	0.595
911210A	SC8000	34953	5.5	25	5 *	18.0	2500	1.6	1.299	96.28	0.563
911210A	SC8000	34953	5.5	25	2 *	18.0	2520	1.6	1.310	96.25	0.563
911210A	SC8000	34953	5.5	25	9 *	19.0	2530	1.6	1.315	96.24	0.595
911210A	SC8000	34953	5.5	25	2 *	18.5	2540	1.6	1.321	96.22	0.579
911210A	SC8000	34953	5.5	25	5 *	17.0	2550	1.6	1.326	96.21	0.532
911210B	SC8000	34901	5.5	26	6 *	18.0	2630	1.6	1.369	96.08	0.563
911210A	SC8000	34953	5.5	25	6 *	19.0	2650	1.6	1.380	96.05	0.595
911210B	SC8000	34901	5.5	26	9 *	18.0	2680	1.6	1.396	96.00	0.563
911210B	SC8000	34901	5.5	26	6 *	18.0	2690	1.6	1.402	95.98	0.563
911210A	SC8000	34953	5.5	25	2 *	18.0	2780	1.6	1.450	95.85	0.563
911210A	SC8000	34953	5.5	25	6 *	18.0	2790	1.6	1.455	95.84	0.563
911210A	SC8000	34953	5.5	25	6 *	18.0	2840	1.6	1.482	95.76	0.563
911210A	SC8000	34953	5.5	25	10 *	18.5	3010	1.6	1.574	95.50	0.579
911210A	SC8000	34953	5.5	25	10 *	19.0	3060	1.6	1.601	95.42	0.595
911210A	SC8000	34953	5.5	25	12 *	19.0	3090	1.6	1.618	95.37	0.595
911210A	SC8000	34953	5.5	25	10 *	18.0	3110	1.6	1.629	95.34	0.563
911210A	SC8000	34953	5.5	25	12 *	19.0	3110	1.6	1.629	95.34	0.595
911210A	SC8000	34953	5.5	25	12 *	19.5	3120	1.6	1.634	95.33	0.610
911210A	SC8000	34953	5.5	25	4 *	19.0	3150	1.6	1.650	95.28	0.595
911210B	SC8000	34901	5.5	26	1 *	19.0	3190	1.6	1.672	95.21	0.595
911210B	SC8000	34901	5.5	26	1 *	18.0	3360	1.6	1.764	94.95	0.563
911210A	SC8000	34953	5.5	25	4 *	18.0	3540	1.6	1.862	94.67	0.563
911210B	SC8000	34901	5.5	26	4 *	18.0	3610	1.6	1.900	94.56	0.563
911210B	SC8000	34901	5.5	26	4 *	18.0	3680	1.6	1.938	94.45	0.563
911210A	SC8000	34953	5.5	25	4 *	18.0	3690	1.6	1.944	94.44	0.563
911210B	SC8000	34901	5.5	26	3 *	18.5	4170	1.6	2.206	93.68	0.579
911210B	SC8000	34901	5.5	26	3 *	18.5	5100	1.6	2.717	92.22	0.579
911210A	SC8000	34953	5.5	25	3 *	21.0	6850	1.6	3.686	89.45	0.657
911210A	SC8000	34953	5.5	25	1 *	20.5	6950	1.6	3.742	89.29	0.642
911210A	SC8000	34953	5.5	25	1 *	21.5	7960	1.6	4.305	87.68	0.673
911210A	SC8000	34953	5.5	25	3 *	21.0	8560	1.6	4.642	86.72	0.657
911210A	SC8000	34953	5.5	25	1 *	20.0	9210	1.6	5.007	85.68	0.626
911210A	SC8000	34953	5.5	25	3 *	21.0	9550	1.6	5.198	85.13	0.657
911209	SC8000	35060	5.5	26	6 *	18.0	2030	4.0	1.047	97.01	0.563
911214A	SC8000	35547	5.5	26	5 *	16.5	2090	4.0	1.079	96.96	0.516
911209	SC8000	35060	5.5	25	6 *	17.0	2070	4.0	1.069	96.95	0.532
911214A	SC8000	35547	5.5	26	5 *	17.0	2130	4.0	1.101	96.90	0.532
911209	SC8000	35060	5.5	25	3 *	19.0	2230	4.0	1.154	96.71	0.595

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RESULT OF EXPERIMENT (MAIN)

DATANO	MEMBLENE	FEED				FEED				
		CONC	PRESSTEMP	CELS	FLUX	EC	FLOW	CONC	REJ	FLUX
911209	SC8000	35060	5.5	26	3 * 18.0	2460	4.0	1.278	96.35	0.563
911216A	SC8000	35589	5.9	25.0	5 * 19.5	2130	1.6	1.101	96.91	0.610
911216A	SC8000	35589	5.9	25.0	5 * 19.0	2190	1.6	1.133	96.82	0.595
911216A	SC8000	35589	5.9	25.0	12 * 21.0	2690	1.6	1.402	96.06	0.657
911216A	SC8000	35589	5.9	25.0	12 * 21.0	2730	1.6	1.423	96.00	0.657
911209	SC8000	35060	6.4	26	6 * 22.5	1400	1.6	713	97.97	0.704
911209	SC8000	35060	6.4	26	3 * 24.8	1490	1.6	761	97.83	0.775
911214A	SC8000	35547	6.4	26	5 * 22.0	1938	1.6	998	97.19	0.689
911214A	SC8000	35547	6.4	25.5	5 * 22.0	2000	1.6	1.031	97.10	0.689
911211A	SC8000	41018	5.5	24.8	5 * 15.0	2820	1.6	1.472	96.41	0.470
911211A	SC8000	41018	5.5	26	5 * 15.1	2820	1.6	1.472	96.41	0.473
911211A	SC8000	41018	5.5	25	5 * 14.5	2890	1.6	1.509	96.32	0.454
911211A	SC8000	41018	6.4	26	5 * 20.0	2130	1.6	1.101	97.32	0.626
911211A	SC8000	41018	6.4	25	5 * 19.5	2220	1.6	1.149	97.20	0.610
911217	UTC70	1556	1.5	24.0	4 * 40.0	71.9	1.6	33	97.88	1.252
911217	UTC70	1556	1.5	25.0	4 * 38.0	75.7	1.6	34	97.81	1.189
911217	UTC70	1556	1.5	24.0	5 * 39.0	96.9	1.6	45	97.11	1.220
911217	UTC70	1556	1.5	24.0	1 * 48.0	99.4	1.6	46	97.04	1.502
911217	UTC70	1556	1.5	25.0	5 * 38.0	106	1.6	49	96.85	1.189
911217	UTC70	1556	1.5	25.0	1 * 46.5	106	1.6	49	96.85	1.455
911217	UTC70	1556	1.5	24.0	6 * 39.0	107	1.6	49	96.85	1.220
911217	UTC70	1556	1.5	25.0	6 * 38.0	114	1.6	53	96.59	1.189
911217	UTC70	1556	1.5	24.0	12 * 42.5	126	1.6	59	96.21	1.330
911217	UTC70	1556	1.5	25.0	12 * 42.0	134	1.6	63	95.95	1.314
911217	UTC70	1556	1.5	24.0	3 * 40.0	138	1.6	64	95.89	1.252
911217	UTC70	1556	1.5	24.0	9 * 39.0	144	1.6	67	95.69	1.220
911217	UTC70	1556	1.5	25.0	3 * 39.0	145	1.6	68	95.63	1.220
911217	UTC70	1556	1.5	24.0	7 * 41.5	150	1.6	70	95.5	1.298
911217	UTC70	1556	1.5	25.0	9 * 38.0	152	1.6	71	95.44	1.189
911217	UTC70	1556	1.5	24.0	8 * 45.0	154	1.6	72	95.37	1.408
911217	UTC70	1556	1.5	25.0	7 * 40.0	156	1.6	73	95.31	1.252
911217	UTC70	1556	1.5	24.0	11 * 44	162	1.6	76	95.12	1.377
911217	UTC70	1556	1.5	25.0	8 * 44.0	165	1.6	78	94.99	1.377
911217	UTC70	1556	1.5	25.0	11 * 43.5	169	1.6	80	94.86	1.361
911217	UTC70	1556	1.5	24.0	2 * 45.0	194	1.6	92	94.09	1.408
911217	UTC70	1556	1.5	25.0	2 * 43.0	207	1.6	98	93.7	1.345
911217	UTC70	1556	1.5	25.0	4 * 40.0	54	4.0	24	98.46	1.252
911217	UTC70	1556	1.5	25.0	4 * 37.0	54	4.0	24	98.46	1.158
911217	UTC70	1556	1.5	25.0	1 * 45.0	72.4	4.0	33	97.88	1.408
911217	UTC70	1556	1.5	25.0	1 * 46.0	75	4.0	34	97.81	1.439
911217	UTC70	1556	1.5	25.0	5 * 39.0	77	4.0	35	97.75	1.220
911217	UTC70	1556	1.5	25.0	5 * 38.0	85.4	4.0	39	97.49	1.189
911217	UTC70	1556	1.5	25.0	6 * 34.0	86	4.0	39	97.49	1.064
911217	UTC70	1556	1.5	25.0	3 * 37.5	98	4.0	45	97.11	1.173
911217	UTC70	1556	1.5	25.0	3 * 41.0	99.6	4.0	46	97.04	1.283
911217	UTC70	1556	1.5	25.0	12 * 42.0	100	4.0	46	97.04	1.314
911217	UTC70	1556	1.5	25.0	9 * 37.5	99.1	4.0	46	97.04	1.173
911217	UTC70	1556	1.5	25.0	6 * 33.0	110	4.0	51	96.72	1.032
911217	UTC70	1556	1.5	25.0	9 * 40.0	112	4.0	52	96.66	1.252
911217	UTC70	1556	1.5	25.0	4 * 32.0	60.7	8.0	27	98.26	1.001
911217	UTC70	1556	1.5	25.5	1 * 37.5	74.2	8.0	34	97.81	1.173

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RESULT OF EXPERIMENT (MAIN)
FEED

DATANO	MEMBLENE	CONC	PRES	TEMP	CELS	FLUX	EC	FEED FLOW	CONC	REJ	FLUX
911217	UTC70	1556	1.5	25.0	6 *	23.0	92	8.0	42	97.3	0.719
911217	UTC70	1556	1.5	25.0	5 *	32.0	102	8.0	47	96.98	1.001
911217	UTC70	1556	1.5	25.0	3 *	25.0	138	8.0	64	95.89	0.782
911216B	UTC80HF	30573	5.5	27.0	9 *	44.0	509	1.6	250	99.18	1.377
911216B	UTC80HF	30573	5.5	27.0	2 *	40.0	518	1.6	255	99.17	1.252
911216B	UTC80HF	30573	6.5	25.5	9 *	53.0	422	1.6	206	99.33	1.659
911216B	UTC80HF	30573	6.5	26.0	9 *	54.0	435	1.6	212	99.31	1.690
911216B	UTC80HF	30573	6.5	26.0	2 *	50.0	451	1.6	221	99.28	1.565
911216B	UTC80HF	30573	6.5	25.5	2 *	50.0	460	1.6	225	99.26	1.565
911216A	UTC80HF	35589	4.9	26.0	9 *	27.0	758	1.6	378	98.94	0.845
911216A	UTC80HF	35589	4.9	25.0	9 *	27.5	768	1.6	383	98.92	0.861
911216A	UTC80HF	35589	4.9	25.0	2 *	25.0	788	1.6	393	98.90	0.783
911216A	UTC80HF	35589	4.9	26.0	2 *	25.0	790	1.6	394	98.89	0.783
911214A	UTC80HF	35547	5.5	25	9 *	35.0	670	1.6	332	99.07	1.096
911214A	UTC80HF	35547	5.5	25.5	9 *	34.5	671	1.6	333	99.06	1.080
911214A	UTC80HF	35547	5.5	25.5	2 *	33.0	685	1.6	340	99.04	1.033
911214A	UTC80HF	35547	5.5	25	2 *	32.0	702	1.6	349	99.02	1.002
911209	UTC80HF	35060	5.5	25	1 *	35.0	1470	1.6	750	97.86	1.096
911209	UTC80HF	35060	5.5	27	1 *	36.0	1570	1.6	803	97.71	1.127
911209	UTC80HF	35060	5.5	25	2 *	38.0	2090	1.6	1,079	96.92	1.189
911209	UTC80HF	35060	5.5	27	2 *	38.0	2370	1.6	1,229	96.49	1.189
911214A	UTC80HF	35547	5.5	26	9 *	39.0	538	4.0	265	99.25	1.221
911214A	UTC80HF	35547	5.5	26	9 *	36.0	572	4.0	282	99.21	1.127
911214A	UTC80HF	35547	5.5	26	2 *	34.0	597	4.0	295	99.17	1.064
911214A	UTC80HF	35547	5.5	26	2 *	34.0	601	4.0	297	99.16	1.064
911209	UTC80HF	35060	5.5	25	1 *	45.5	1390	4.0	708	97.98	1.424
911209	UTC80HF	35060	5.5	26	1 *	44.0	1534	4.0	784	97.76	1.377
911209	UTC80HF	35060	5.5	25	2 *	43.0	2120	4.0	1,095	96.88	1.346
911209	UTC80HF	35060	5.5	26	2 *	42.0	2310	4.0	1,197	96.59	1.315
911216A	UTC80HF	35589	5.9	25.0	9 *	38.5	611	1.6	302	99.15	1.205
911216A	UTC80HF	35589	5.9	25.0	2 *	36.0	620	1.6	307	99.14	1.127
911216A	UTC80HF	35589	5.9	25.0	9 *	39.5	630	1.6	312	99.12	1.236
911216A	UTC80HF	35589	5.9	25.0	2 *	35.0	643	1.6	319	99.10	1.096
911214A	UTC80HF	35547	6.4	26	9 *	45.0	586	1.6	289	99.19	1.409
911214A	UTC80HF	35547	6.4	25.5	9 *	46.0	607	1.6	300	99.16	1.440
911214A	UTC80HF	35547	6.4	26	2 *	41.0	624	1.6	309	99.13	1.283
911214A	UTC80HF	35547	6.4	25.5	2 *	42.0	634	1.6	314	99.12	1.315
911209	UTC80HF	35060	6.4	26	1 *	48.8	1600	1.6	819	97.66	1.526
911209	UTC80HF	35060	6.4	26	2 *	51.0	1890	1.6	973	97.22	1.596
911214A	UTC80HF	35547	6.4	27	9 *	52.0	482	4.0	236	99.34	1.628
911214A	UTC80HF	35547	6.4	27	2 *	45.0	523	4.0	257	99.28	1.409
911211A	UTC80HF	41018	5.5	24.8	2 *	27.0	1047	1.6	528	98.71	0.845
911211A	UTC80HF	41018	5.5	26	2 *	26.5	1060	1.6	535	98.70	0.829
911211A	UTC80HF	41018	5.5	25	2 *	26.0	1108	1.6	560	98.63	0.814
911211A	UTC80HF	41018	5.5	24.8	9 *	28.0	1340	1.6	681	98.34	0.876
911211A	UTC80HF	41018	5.5	25	9 *	28.0	1420	1.6	724	98.23	0.876
911211A	UTC80HF	41018	5.5	26	9 *	27.0	1420	1.6	724	98.23	0.845
911211A	UTC80HF	41018	6.4	26	2 *	36.0	883	1.6	442	98.92	1.127
911211A	UTC80HF	41018	6.4	25	2 *	34.5	907	1.6	455	98.89	1.080
911211A	UTC80HF	41018	6.4	26	9 *	38.0	1095	1.6	553	98.65	1.189
911211A	UTC80HF	41018	6.4	25	9 *	36.5	1113	1.6	562	98.63	1.142

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RESULT OF EXPERIMENT (MAIN)

DATANO	MEMBLNE	FEED				FEED					
		CONC	PRES	TEMP	CELS	FLUX	EC	FLOW	CONC	REJ	FLUX
911211B	UTC80HF	40984	6.4	28.0	2 *	40.0	742	4.0	370	99.10	1.252
911211B	UTC80HF	40984	6.4	28.0	9 *	43.0	945	4.0	475	98.84	1.346
911216B	UTC80HR	30573	5.5	27.0	1 *	33.0	307	1.6	148	99.52	1.033
911216B	UTC80HR	30573	5.5	27.0	8 *	42.0	812	1.6	406	98.67	1.315
911216B	UTC80HR	30573	6.5	26.0	1 *	41.0	252	1.6	121	99.60	1.283
911216B	UTC80HR	30573	6.5	25.5	1 *	39.0	259	1.6	124	99.59	1.221
911216B	UTC80HR	30573	6.5	26.0	8 *	49.0	734	1.6	365	98.81	1.534
911216B	UTC80HR	30573	6.5	25.5	8 *	48.0	742	1.6	370	98.79	1.502
911216A	UTC80HR	35589	4.9	26.0	1 *	20.5	462	1.6	226	99.36	0.642
911216A	UTC80HR	35589	4.9	25.0	1 *	20.0	489	1.6	240	99.33	0.626
911216A	UTC80HR	35589	4.9	26.0	8 *	26.0	1340	1.6	681	98.09	0.814
911216A	UTC80HR	35589	4.9	25.0	8 *	26.0	1445	1.6	737	97.93	0.814
911214A	UTC80HR	35547	5.5	25.5	1 *	27.0	397	1.6	193	99.46	0.845
911214A	UTC80HR	35547	5.5	25	1 *	27.0	436	1.6	213	99.40	0.845
911214A	UTC80HR	35547	5.5	25	8 *	24.0	1550	1.6	792	97.77	0.751
911214A	UTC80HR	35547	5.5	25.5	8 *	23.0	1660	1.6	850	97.61	0.720
911214A	UTC80HR	35547	5.5	26	1 *	27.5	358	4.0	174	99.51	0.861
911214A	UTC80HR	35547	5.5	26	1 *	27.0	376	4.0	183	99.49	0.845
911208	UTC80HR	35076	5.5	26.0	12 *	19.5	820	4.0	410	98.83	0.916
911208	UTC80HR	35076	5.5	27.0	12 *	18.5	845	4.0	423	98.79	0.869
911208	UTC80HR	35076	5.5	26.0	12 *	18.7	1050	4.0	529	98.49	0.878
911208	UTC80HR	35076	5.5	26.0	8 *	19.2	1650	4.0	845	97.59	0.901
911208	UTC80HR	35076	5.5	26.0	8 *	19.2	1680	4.0	861	97.55	0.901
911208	UTC80HR	35076	5.5	27.0	8 *	19.0	1780	4.0	914	97.39	0.892
911216A	UTC80HR	35589	5.9	25.0	1 *	29.0	375	1.6	182	99.49	0.908
911216A	UTC80HR	35589	5.9	25.0	1 *	30.0	373	1.6	181	99.49	0.939
911216A	UTC80HR	35589	5.9	25.0	8 *	37.0	1105	1.6	558	98.43	1.158
911216A	UTC80HR	35589	5.9	25.0	8 *	36.0	1112	1.6	562	98.42	1.127
911214A	UTC80HR	35547	6.4	26	1 *	34.0	350	1.6	170	99.52	1.064
911214A	UTC80HR	35547	6.4	25.5	1 *	35.0	370	1.6	180	99.49	1.096
911214A	UTC80HR	35547	6.4	26	8 *	31.0	1260	1.6	639	98.20	0.970
911214A	UTC80HR	35547	6.4	25.5	8 *	31.0	1360	1.6	692	98.05	0.970
911214A	UTC80HR	35547	6.4	27	1 *	38.0	328	4.0	159	99.55	1.189
911208	UTC80HR	35076	6.4	27.0	12 *	25.2	892	4.0	447	98.73	1.183
911208	UTC80HR	35076	6.4	27.0	12 *	25.0	905	4.0	454	98.71	1.174
911208	UTC80HR	35076	6.4	27.0	8 *	26.0	1520	4.0	776	97.79	1.221
911208	UTC80HR	35076	6.4	27.0	8 *	25.0	1550	4.0	792	97.74	1.174
911211A	UTC80HR	41018	5.5	24.8	1 *	20.0	748	1.6	373	99.09	0.626
911211A	UTC80HR	41018	5.5	26	1 *	19.5	766	1.6	382	99.07	0.610
911211A	UTC80HR	41018	5.5	25	1 *	20.0	802	1.6	401	99.02	0.626
911211A	UTC80HR	41018	5.5	24.8	8 *	20.0	2110	1.6	1,090	97.34	0.626
911211A	UTC80HR	41018	5.5	26	8 *	18.0	2260	1.6	1,170	97.15	0.563
911211A	UTC80HR	41018	5.5	25	8 *	19.0	2290	1.6	1,186	97.11	0.595
911211A	UTC80HR	41018	5.5	26	3 *	18.0	2460	1.6	1,278	96.88	0.563
911211A	UTC80HR	41018	5.5	24.8	3 *	18.0	2478	1.6	1,283	96.87	0.563
911211A	UTC80HR	41018	5.5	25	3 *	18.0	2610	1.6	1,358	96.69	0.563
911211A	UTC80HR	41018	6.4	26	1 *	26.5	568	1.6	280	99.32	0.829
911211A	UTC80HR	41018	6.4	25	1 *	25.5	576	1.6	284	99.31	0.798
911211A	UTC80HR	41018	6.4	26	8 *	27.0	1712	1.6	878	97.86	0.845
911211A	UTC80HR	41018	6.4	25	8 *	25.0	1723	1.6	884	97.84	0.783
911211B	UTC80HR	40984	6.4	28.0	1 *	30.0	493	4.0	242	99.41	0.939

