Facility Well Name CHS Refinery #3 **UIC Permit #** KS-01-113-010 **Month** July **Year** 2022

Submitted 08/16/2022 **Approved** 08/26/2022 **KOLAR Document ID** 1660544

Class I-V Injection Well Monthly Monitoring

Summary of Monthly Report

Number of days injection occurred: 31

Barrels per Day Maximum: 51,429

			Annulus Pressure psig min 60		Injection Pressure		
	Injection Volume Barrels per Day	Injection Rate Barrels per Minute	Gauge psig	Cont. Record psig	Gauge psig	Cont. Record psig	Amount Added to Seal Pot
Monthly Average	3,184	2.21	92	92	2.6	3.2	
Monthly Maximum	6,581	4.57	100	101	14.0	13.6	
Monthly Minimum	146	0.10	70	80	2.0	2.0	
Monthly Total	98,697						

Summary of Continuous Recorder Data

Maximum Annulus Pressure psig	Minimum Annulus Pressure psig	Maximum Injection Pressure psig	Minimum Injection Pressure psig
119.09	79.79	17.71	1.81

Comments:

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Daily Recorder Data

Day	Time 24 hr	Injection Volume Barrels Per Day	Injection Rate Barrels Per Minute	Annulus Pressure (Gauge) psig	Annulus Pressure (Continuous Recorder) psig	Injection Pressure (Gauge) + / -	Injection Pressure (Continuous Recorder) + / -	Seal Pot Fluid Level inches	Type of Fluid Added to Seal Pot	Amount of Fluid Added to Seal Pot gallons	Initials of Collector of Field Recordings		
1	07:00	146.05	0.10	90	87.9	2	2.8	9			JC		
2	07:00	4,571.67	3.17	90	93.2	2	2.6	11			JC		
3	07:00	3,511.19	2.43	100	96.0	2	2.7	11			JC		
4	07:00	3,961.02	2.76	100	100.3	4	4.0	13			MB		
5	07:00	5,275.19	3.67	95	96.6	2	2.7	11			MB		
6	07:00	2,314.29	1.62	98	98.3	2	2.8	11			TY		
7	07:00	3,755.67	2.62	100	101.0	2	2.8	13			TY		
8	07:00	3,433.02	2.38	95	98.6	2	2.8	12			MB		
9	07:00	2,811.43	1.95	90	94.3	2	2.8	12			MB		
10	07:00	4,994.05	3.48	95	94.5	2	2.8	12			MB		
11	07:00	4,133.14	2.88	95	94.6	2	2.8	12			MB		
12	07:00	846.17	0.60	88	88.6	14	13.6	10			MW		
13	07:00	2,113.38	1.48	90	89.3	2	2.7	10			MB		
14	07:00	4,501.38	3.12	100	98.7	5	5.0	13			MB		
15	07:00	6,581.14	4.57	98	96.2	2	2.0	12			BD		
16	07:00	3,701.48	2.57	98	95.7	2	2.7	13			BD		
17	07:00	1,676.57	1.17	96	93.1	2	2.8	11			BF		
18	07:00	3,066.17	2.12	93	91.3	2	2.7	12			MH		
19	07:00	3,351.76	2.33	92	91.2	3	2.7	12			MH		
20	07:00	2,389.02	1.67	94	92.8	2	2.7	12			BD		
21	07:00	5,692.81	3.95	90	89.6	2	2.8	11			BD		
22	07:00	1,912.12	1.33	88	87.4	2	2.8	11			MH		
23	07:00	995.67	0.69	92	92.1	2	2.7	11			MH		
24	07:00	4,368.00	3.02	94	93.4	2	2.8	12			CG		
25	07:00	2,690.40	1.86	88	87.5	2	2.8	11			MH		
26	07:00	2,278.98	1.57	84	86.3	2	2.7	10			TP		
27	07:00	3,793.71	2.64	90	88.3	2	2.8	12			CG		
28	07:00	2,540.57	1.76	88	88.2	2	2.8	11			CG		
29	07:00	3,038.05	2.12	70	84.6	2	2.8	11			JC		
30	07:00	2,614.98	1.81	86	80.4	2	2.8	10			TY		
31	07:00	1,637.83	1.14	90	81.0	2	2.7	9			JC		

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Weekly Injectate Samples

Kansas Lab Certificate Number E-10116

Week	**Temperature**		**pH**		**Chloride**				
	Degrees Fahrenheit	Date	Standard Units	Date	Cl concentration (mg/l)	Date Sample Collected	Date Sampl Analysed		
1	90.50	07/05/2022	7.42	07/05/2022	505.0	07/05/2022	07/12/2022		
2	82.00	07/12/2022	7.46	07/12/2022	493.0	07/12/2022	08/01/2022		
3	90.20	07/19/2022	7.97	07/19/2022	521.0	07/19/2022	08/01/2022		
4	84.00	07/26/2022	7.93	07/26/2022	360.0	07/26/2022	08/10/2022		
5									

No monthly injectate samples required.