

# FTIR Summary Report

Customer: Tosco SFR  
 Location: North Fenceline  
 Address: 1380 San Pablo Avenue  
 Rodeo, CA 94572-1299

Monitoring Period  
 From: 10/01/1997 00:00:01  
 To: 10/31/1997 23:59:59

Total Hours: 744.00  
 Online %: 98.2  
 Offline %: 1.8

**AIR SERVICES**  
 2950 N. Loop West, Ste 1050  
 Houston, Texas 77029  
 Phone (713) 956-6250  
 FAX (713) 956-2185

Number of Valid Spectra Collected and Analyzed: 8589

Compound	Path - Average Conc. (ppm)			Detections			Alarms				Path - MDL (ppm)		
	Avg.*	Max*	Min*	Number	Confirmed	False Positive	High Level (ppm)	#	Low Level (ppm)	#	Avg Detect Limit	Max Detect Limit	Min Detect Limit
1,1,1 Trichloroethane	0.000	0.000	0.000	0	0	0	450	0	350	0	0.036	0.397	0.018
1,3 Butadiene	0.000	0.000	0.000	0	0	0	50	0	10	0	0.049	0.692	0.026
2,2,4-Trimethylpentane	0.000	0.000	0.000	0	0	0	0	0	0	0	3.993	36.643	1.248
Acetaldehyde	0.000	0.000	0.000	0	0	0	150	0	25	0	0.712	7.623	0.374
Ammonia	0.017	0.026	0.013	155	155	0	100	0	3	0	0.018	0.186	0.010
Butane	0.000	0.000	0.000	0	0	0	1000	0	800	0	0.448	3.433	0.059
Carbon monoxide	0.282	0.544	0.167	5575	5575	0	400	0	20	0	0.314	12.703	0.131
Carbonyl sulfide	0.000	0.000	0.000	0	0	0	10	0	1	0	0.017	0.168	0.002
Chlorodifluoromethane	0.000	0.000	0.000	0	0	0	100	0	10	0	0.015	0.167	0.008
Diethanol amine	0.000	0.000	0.000	13	0	13	6	0	0.46	0	0.048	0.481	0.022
Dimethyl sulfide	0.000	0.000	0.000	1	0	1	500	0	50	0	0.421	4.193	0.239
Ethane	0.000	0.000	0.000	0	0	0	3000	0	1000	0	0.195	1.316	0.025
Ethyl benzene	0.000	0.000	0.000	0	0	0	125	0	100	0	0.414	3.369	0.053
Ethylene	0.000	0.000	0.000	0	0	0	2700	0	1000	0	0.038	0.533	0.021
Formaldehyde	0.000	0.000	0.000	142	0	142	2	0	0.3	0	0.048	0.846	0.005
Furan	0.000	0.000	0.000	0	0	0	2300	0	230	0	5.413	42.724	2.874
Hydrogen chloride	0.000	0.000	0.000	31	0	31	20	0	1	0	0.068	1.268	0.002
Hydrogen Cyanide	0.000	0.000	0.000	0	0	0	3	0	0.3	0	0.113	1.629	0.054
Methane	1.652	2.294	1.068	7350	7350	0	5000	0	1000	0	1.832	3.304	0.229
Methyl mercaptan	0.000	0.000	0.000	0	0	0	10	0	0.005	0	1.603	16.290	0.195
Methyl tert-butyl ether	0.076	0.218	0.048	70	70	0	200	0	40	0	0.071	0.736	0.037
n-Hexane	0.000	0.000	0.000	0	0	0	75	0	50	0	0.660	5.068	0.083
n-Octane	0.000	0.000	0.000	0	0	0	375	0	75	0	0.362	2.793	0.045
Naphthalene	0.000	0.000	0.000	0	0	0	15	0	10	0	0.764	7.858	0.340

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Nickel carbonyl	0.000	0.000	0.000	0	0	0	0.16	0	0.09	0	0.014	0.181	0.002
Nitrous oxide***	0.219	0.638	0.175	8582	8582	0	NONE	N/A	NONE	N/A	0.246	0.544	0.020
Ozone**	0.063	0.081	0.048	95	95	0	NONE	N/A	NONE	N/A	0.057	0.567	0.040
Phenol	0.000	0.000	0.000	47	0	47	50	0	5	0	0.132	26.937	0.002
Phosgene	0.000	0.000	0.000	2	0	2	0.2	0	0.003	0	0.008	0.065	0.004
Propane	0.000	0.000	0.000	0	0	0	2500	0	1000	0	0.283	2.401	0.033

\* Zero (0.000) values indicate all concentrations less than the minimum detection limit (<MDL)

\*\* Included as an interfering compound

\*\*\* Included as an ambient quality assurance check compound