

Red Butte Creek Oil Release Air Monitoring Journal

Date	Location (Time)	Analyte	Method	Result	GPS Location	Comment		
9/30/10	Miller Park, along Red Butte Creek (1445-1500)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0 ppm ¹	40°44'46.37"N, 111°50'48.60"W	~20 yards from outlet from Miller Park, 10 ft above creek		
				0.0 ppm ¹	40°44'46.60"N, 111°50'46.30"W	~50 yards from outlet, on edge of creek		
				0.0 ppm ¹	40°44'47.10"N, 111°50'45.55"W	~75 yards from outlet, 2 ft above creek		
				0.0 ppm ¹	40°44'47.72"N, 111°50'43.65"W	At waterfall on bridge, 12 ft above creek		
		Hydrogen Sulfide (H ₂ S)	QRAEII	0.0 ppm ²	No odor detected. Water levels were moderate. Water is murky. No crews working in this area.			
		Carbon Monoxide (CO)	QRAEII	0.0 ppm				
		Lower Explosive Limit (LEL)	QRAEII	0.0%				
	Confluence of Jordan River and Red Butte Creek (1315-1325)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0 ppm ¹	40°44'29.75"N, 111°55'3.68"W	At inlet to Jordan River, 3 ft from water. No odors were detected. Brown/green film is built up around the barriers. No crews working in this area.		
				Hydrogen Sulfide (H ₂ S)			QRAEII	0.0 ppm ²
				Carbon Monoxide (CO)			QRAEII	0.0 ppm
				Lower Explosive Limit (LEL)			QRAEII	0.0%
	Garden Park Ward, 1140 East Harvard (1425)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	N/A	40°44'42.01"N, 111°51'29.60"W	Unable to perform sampling. Entrance to the area was locked.		
				Hydrogen Sulfide (H ₂ S)			QRAEII	N/A
Carbon Monoxide (CO)				QRAEII			N/A	
Lower Explosive Limit (LEL)				QRAEII			N/A	

¹ PID readings for VOCs are used as a screening method to determine contaminants typically associated with crude oil. If high levels of VOCs are detected, additional sampling is conducted

² 10ppm Hydrogen Sulfide (ceiling) - NIOSH recommended exposure level

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9/30/10	1100 East Harvard (1430-1440)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0 ppm ¹	40°44'42.1"N, 111°51'34.0"W	Sample taken at culvert opening.
		Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0 ppm ¹		North of Harvard where Red Butte Creek goes underneath 1100 East. No odors detected by technician. Water level was moderate. No crews are working in the area.
		Hydrogen Sulfide (H ₂ S)	QRAEII	0.0 ppm ²		
		Carbon Monoxide (CO)	QRAEII	0.0 ppm		
		Lower Explosive Limit (LEL)	QRAEII	0.0%		
	Liberty Park (1340-1350)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0 ppm ¹	In between 40°44'37.96"N, 111°52'25.29"W and 40°44'38.41"N, 111°52'21.04"W	Sampling along the north side of the lake. No odor was detected by technician. Crews not working in area.
		Hydrogen Sulfide (H ₂ S)	QRAEII	0.0 ppm ²		
		Carbon Monoxide (CO)	QRAEII	0.0 ppm		
		Lower Explosive Limit (LEL)	QRAEII	0.0%		
	Residence of 580 East 1300 South (1400-1410)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0 ppm ¹	40°44'29.6"N, 111°51'27.6"W	Sampling in the front yard of this residence NW side of lot. No odor was detected by technician.
		Hydrogen Sulfide (H ₂ S)	QRAEII	0.0 ppm ²		
		Carbon Monoxide (CO)	QRAEII	0.0 ppm		
Lower Explosive Limit (LEL)		QRAEII	0.0%			

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Weather Conditions for:		K7PB Salt Lake City, UT (AS230)			Elev: 4615 ft; Latitude: 40.73067; Longitude: -111.82667				
Time: (MDT)	Temp. (f)	Dew Point (f)	Relative Humidity (%)	Wind Direction	Wind Speed (mph)	Altimeter Setting (inches)	Station Pressure (inches)	Precip 24 hour (inches)	Quality Control
30 Sep 3:04 pm	85	38	19	S	G03	29.74	25.106	0.00	OK
30 Sep 2:54 pm	84	36	18	S	3G04	29.76	25.124	0.00	OK
30 Sep 2:44 pm	85	38	19	WNW	G04	29.75	25.115	0.00	OK
30 Sep 2:34 pm	86	38	18	WNW	3G04	29.75	25.115	0.00	OK
30 Sep 2:24 pm	84	37	19	SSW	2G03	29.77	25.133	0.00	OK
30 Sep 2:14 pm	83	34	17	WSW	G02	29.77	25.133	0.00	OK
30 Sep 2:04 pm	83	34	17	WSW	1G02	29.77	25.133	0.00	OK
30 Sep 1:54 pm	83	35	18	SE	G04	29.78	25.141	0.00	OK
30 Sep 1:44 pm	82	39	22	W	3G04	29.78	25.141	0.00	OK
30 Sep 1:34 pm	81	35	19	W	G04	29.78	25.141	0.00	OK
30 Sep 1:24 pm	82	41	23	W	1G03	29.80	25.159	0.00	OK
30 Sep 1:14 pm	81	36	20	W	G03	29.80	25.159	0.00	OK