

Red Butte Creek Oil Release Air Monitoring Journal

Date	Location (Time)	Analyte	Method	Result	GPS Location	Comment		
6/22/10	Miller Park, along Red Butte Creek (1300-1320)	VOCs	PID	0.1 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		
				0.2 ppm ¹	40°44'47.10"N, 111°50'45.55"W	~75 yards from outlet, 2 ft above creek		
				0.2-0.5 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	At all locations along Red Butte Creek at Miller Park. There were no workers scrubbing the creek. Odors were low 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 (1120-1130)	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 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%
	Garden Park Ward, 1140 East Harvard (1240-1250)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0-0.1 ppm ¹	40°44'42.01"N, 111°51'29.60"W	At the creek's edge. There were no workers scrubbing the creek. Faint odor detected by technician on bridge near the entrance, no odors detected along creek.		
				Hydrogen Sulfide (H ₂ S)			QRAEII	0.0 ppm ²
Carbon Monoxide (CO)				QRAEII			0.0 ppm	
Lower Explosive Limit (LEL)				QRAEII			0.0%	

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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6/22/10	1100 East Harvard (1250-1255)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.1 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. Faint odors 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%		
	Liberty Park (1140-1150)	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.
		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 (1155-1205)	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. 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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6/22/10	Residence of 1350 East Yale (1415-1450)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0 ppm ¹	unavailable	Sampling in Main level of residence.
		Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0 ppm ¹		Sampling in the basement of the residence.
		Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.1-0.7 ppm ¹		Sampling at the south end of the lot by Red Butte Creek.
		Hydrogen Sulfide (H ₂ S)	QRAEII	0.0 ppm ²		At all locations at this residence.
		Carbon Monoxide (CO)	QRAEII	0.0 ppm		
		Lower Explosive Limit (LEL)	QRAEII	0.0%		
		Volatile Organic Compounds	Passive Dosimeters	-----		

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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	Relative	Wind	Wind	Altimeter	Station	Precip	Quality
		Point (f)	Humidity (%)	Direction	Speed (mph)	Setting (inches)	Pressure (inches)	24 hour (inches)	Control
22 Jun 2:59 pm	79	49	35	WNW	2G12	29.85	25.202	0.00	OK
22 Jun 2:49 pm	79	47	32	W	4G12	29.85	25.202	0.00	OK
22 Jun 2:39 pm	78	46	32	W	8G12	29.85	25.202	0.00	OK
22 Jun 2:29 pm	79	48	34	WNW	3G12	29.85	25.202	0.00	OK
22 Jun 2:19 pm	78	47	33	WNW	1G12	29.86	25.211	0.00	OK
22 Jun 2:09 pm	78	47	33	WSW	6G11	29.86	25.211	0.00	OK
22 Jun 1:59 pm	78	46	32	W	3G11	29.85	25.202	0.00	OK
22 Jun 1:49 pm	78	47	33	W	3G11	29.85	25.202	0.00	OK
22 Jun 1:39 pm	77	49	37	NW	G11	29.85	25.202	0.00	OK
22 Jun 1:29 pm	77	49	38	NW	3G11	29.85	25.202	0.00	OK
22 Jun 1:19 pm	76	47	36	WNW	1G11	29.85	25.202	0.00	OK
22 Jun 1:09 pm	76	47	36	W	7G10	29.85	25.202	0.00	OK
22 Jun 12:59 pm	76	51	41	WNW	3G15	29.84	25.194	0.00	OK
22 Jun 12:49 pm	77	49	37	WNW	2G14	29.83	25.185	0.00	OK
22 Jun 12:39 pm	76	49	39	W	5G14	29.84	25.194	0.00	OK
22 Jun 12:29 pm	76	49	38	WNW	3G14	29.83	25.185	0.00	OK
22 Jun 12:19 pm	76	50	40	W	10G14	29.84	25.194	0.00	OK
22 Jun 12:09 pm	75	51	43	WNW	4G07	29.84	25.194	0.00	OK
22 Jun 11:59 am	75	47	37	WSW	3G09	29.82	25.176	0.00	OK
22 Jun 11:49 am	74	50	43	WSW	G05	29.84	25.194	0.00	OK
22 Jun 11:39 am	74	48	40	SW	3G05	29.83	25.185	0.00	OK
22 Jun 11:29 am	73	47	39	WSW	1G04	29.83	25.185	0.00	OK
22 Jun 11:19 am	73	47	40	SSW	3G04	29.83	25.185	0.00	OK

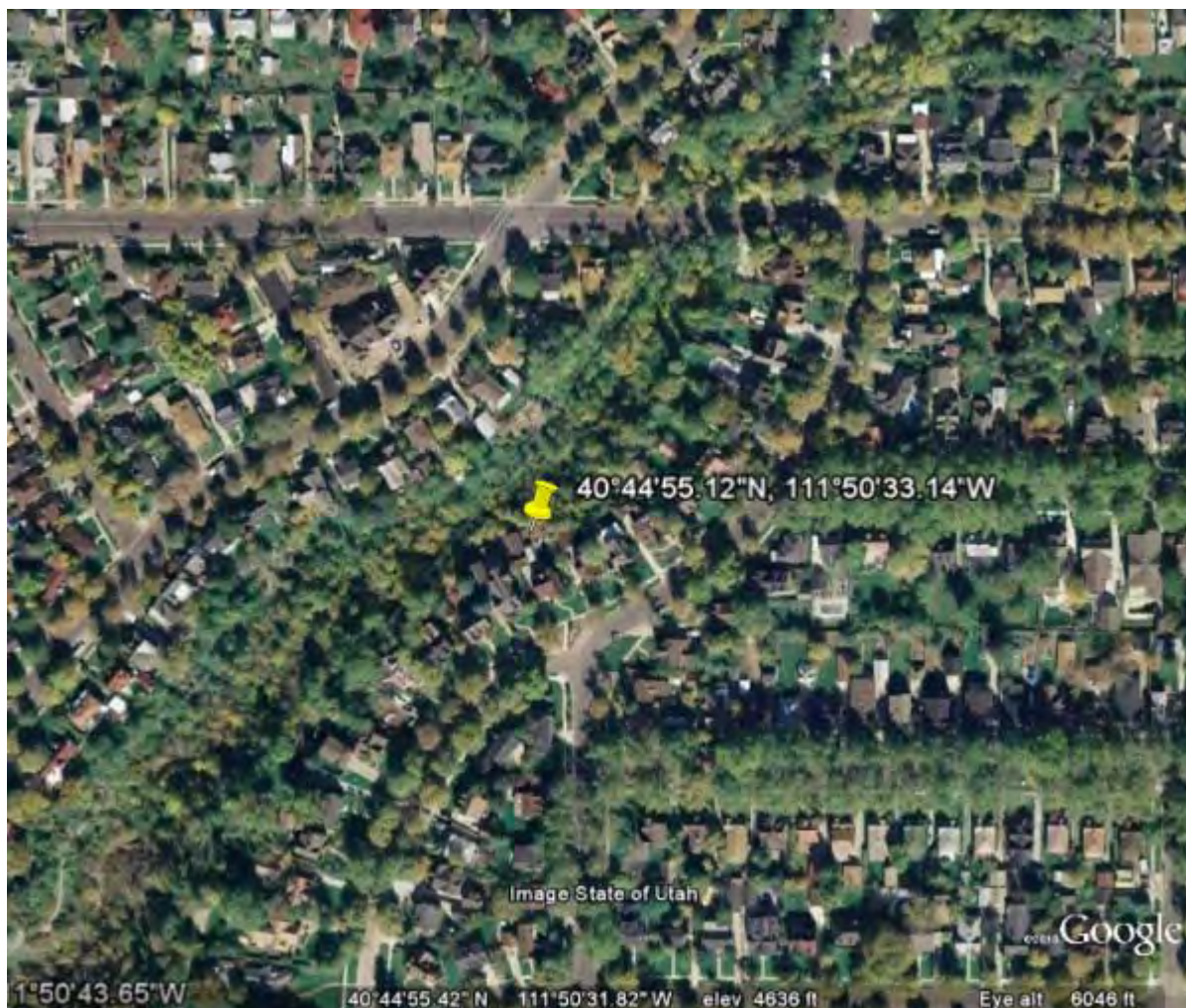
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Liberty Park Sample Sites



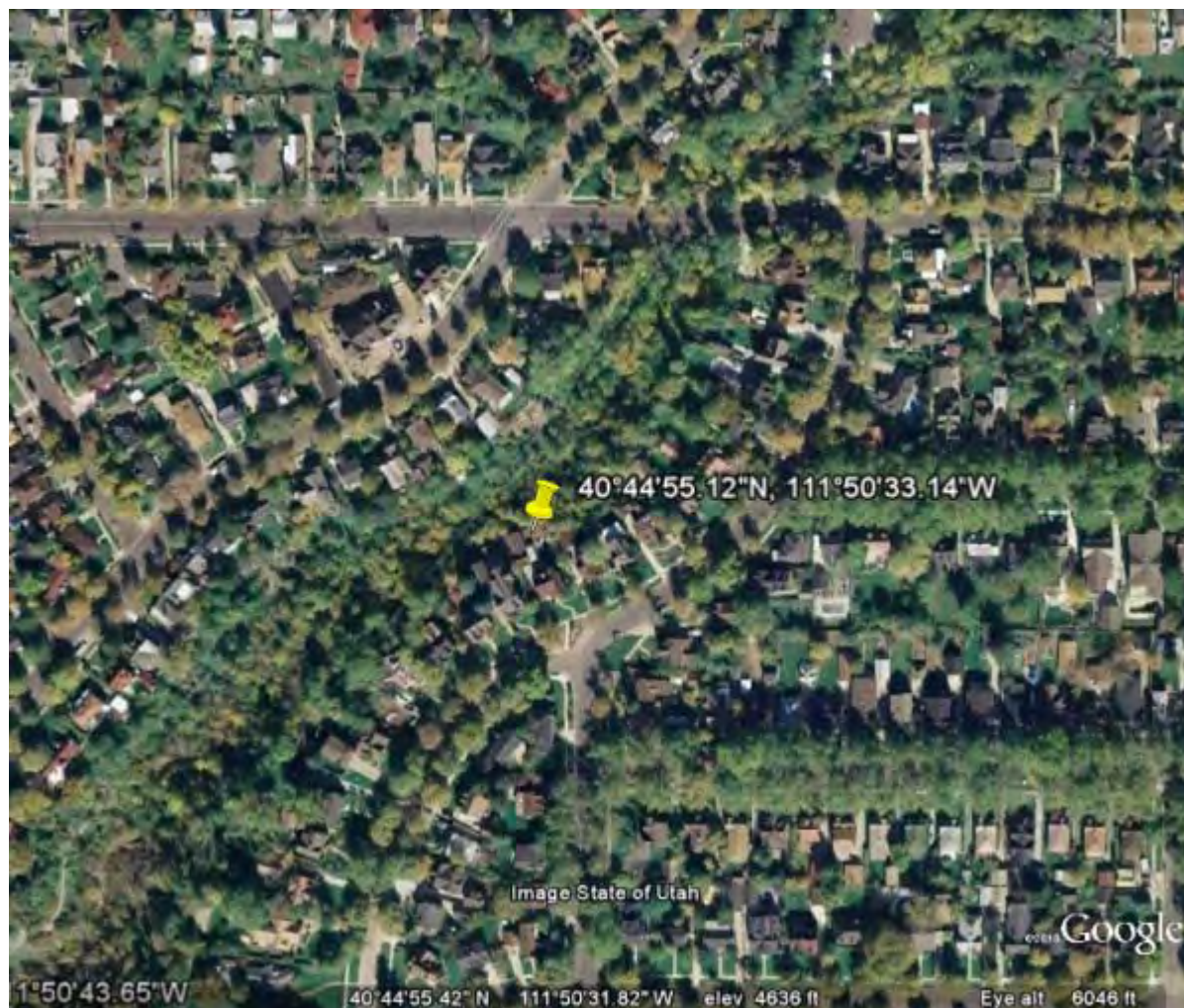
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Miller Park Sample Sites



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Resident Sample Site at 966 Military



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Garden Ward Sample Site at 11th East and Harvard



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Sample Site at the Jordan River Confluence

