

Red Butte Creek Oil Release Air Monitoring Journal

Date	Location (Time)	Analyte	Method	Result	GPS Location	Comment		
7/29/10	Miller Park, along Red Butte Creek (1220-1240)	Volatile Organic Compounds (VOCs)	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 level very low. No crews working in this area. Crews were in the parking lot.			
		Carbon Monoxide (CO)	QRAEII	0.0 ppm				
		Lower Explosive Limit (LEL)	QRAEII	0.0%				
	Confluence of Jordan River and Red Butte Creek (1330-1335)	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. Oil 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 (1240-1250)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0 ppm ¹	40°44'42.01"N, 111°51'29.60"W	At the creek's edge. No crews were working in this area. No odor detected by technician. Water level very low.		
				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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7/29/10	1100 East Harvard (1250-1300)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	9.0 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)	2.0 ppm ¹		North of Harvard where Red Butte Creek goes underneath 1100 East. Some odors detected by technician. Water very low. Crew was working in the creek above the culvert and a vacuum truck was present.
		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 (1300-1310)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0-0.1 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 (1310-1320)	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)			<small>Elev: 4615 ft; Latitude: 40.73067; Longitude: -111.82667</small>				
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
29 Jul 1:26 pm	84	53	34	S	G06	29.86	24.991		OK
29 Jul 1:11 pm	86	49	28	S	G06	29.85	24.982		OK
29 Jul 12:56 pm	87	55	34	S	1G05	29.85	24.982		OK
29 Jul 12:41 pm	86	57	37	S	3G04	29.86	24.991		OK
29 Jul 12:26 pm	84	53	34	S	1G04	29.87	24.999		OK
29 Jul 12:11 pm	84	56	39	S	G02	29.87	24.999		OK
29 Jul 11:56 am	83	50	32	S	G03	29.89	25.017		OK

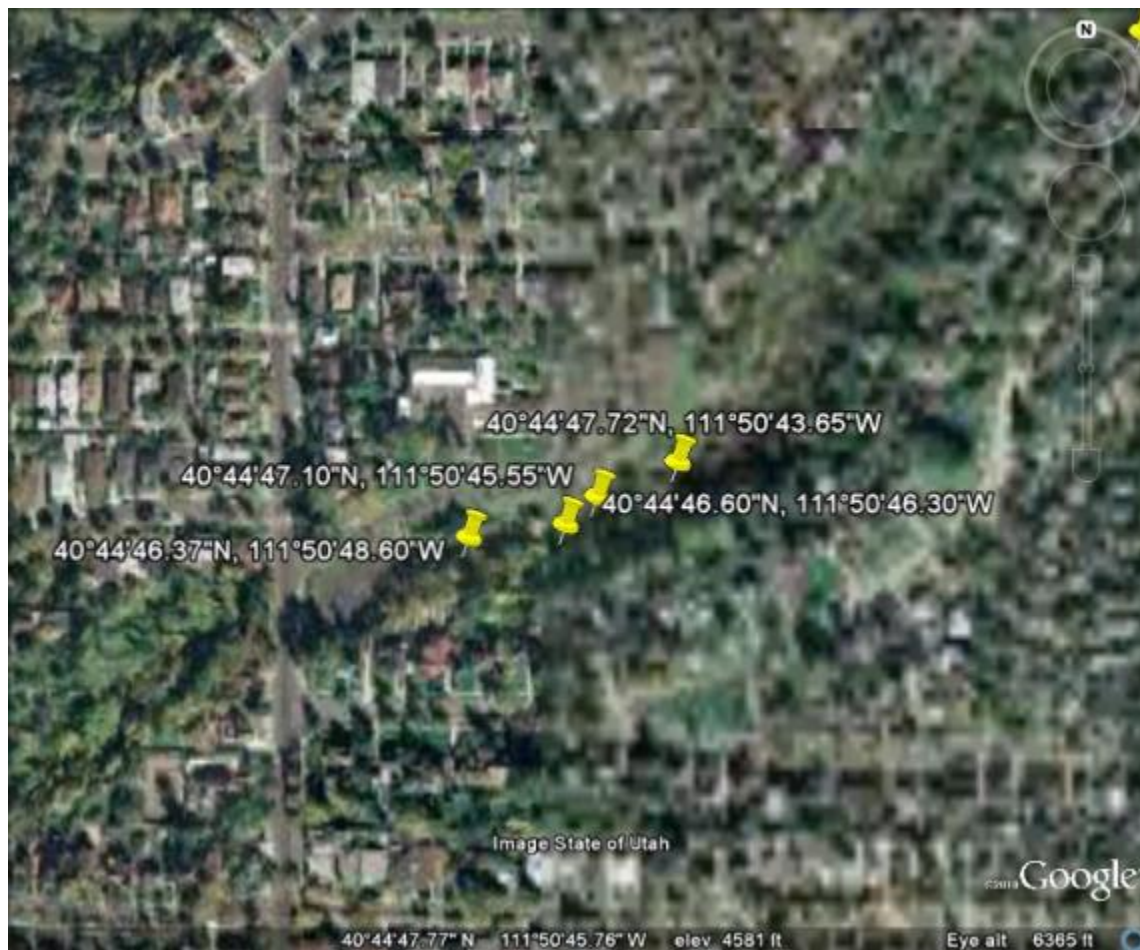
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Liberty Park Sample Sites



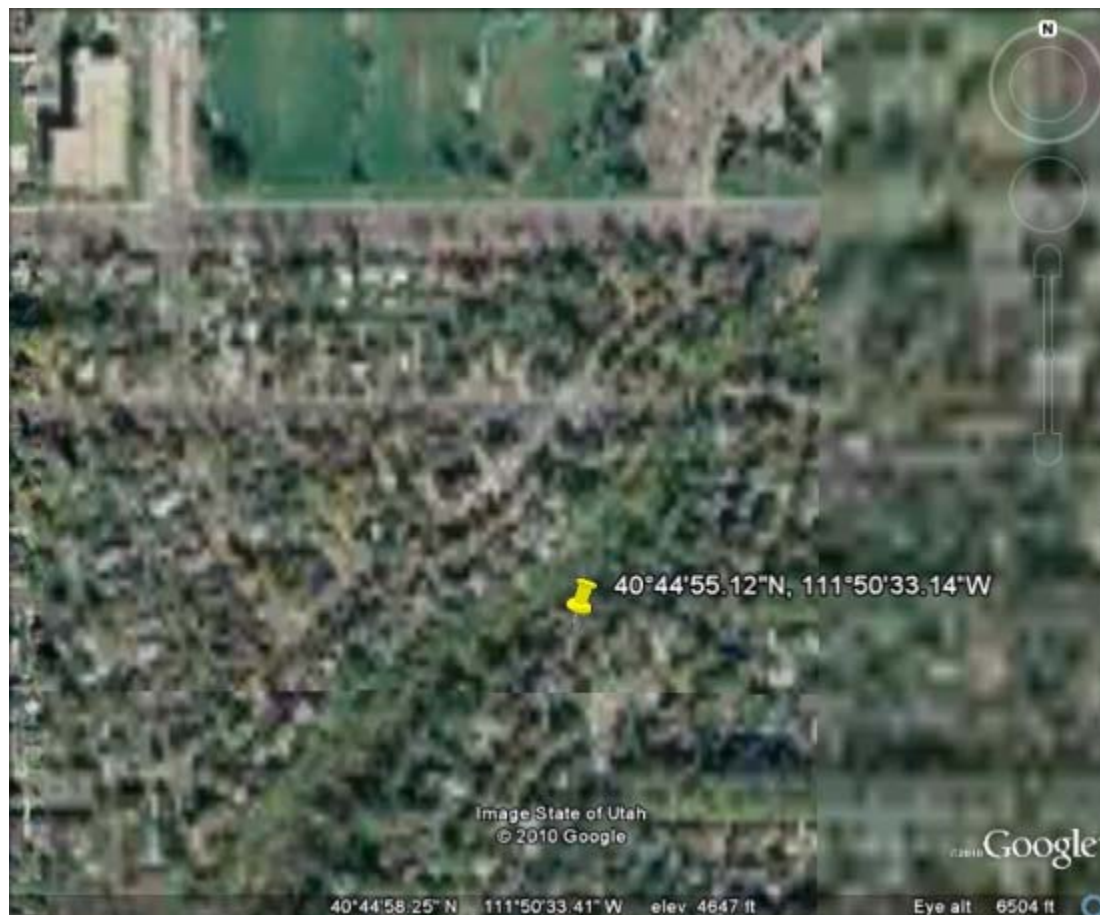
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Miller Park Sample Sites



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Resident Sample Site at 966 Military



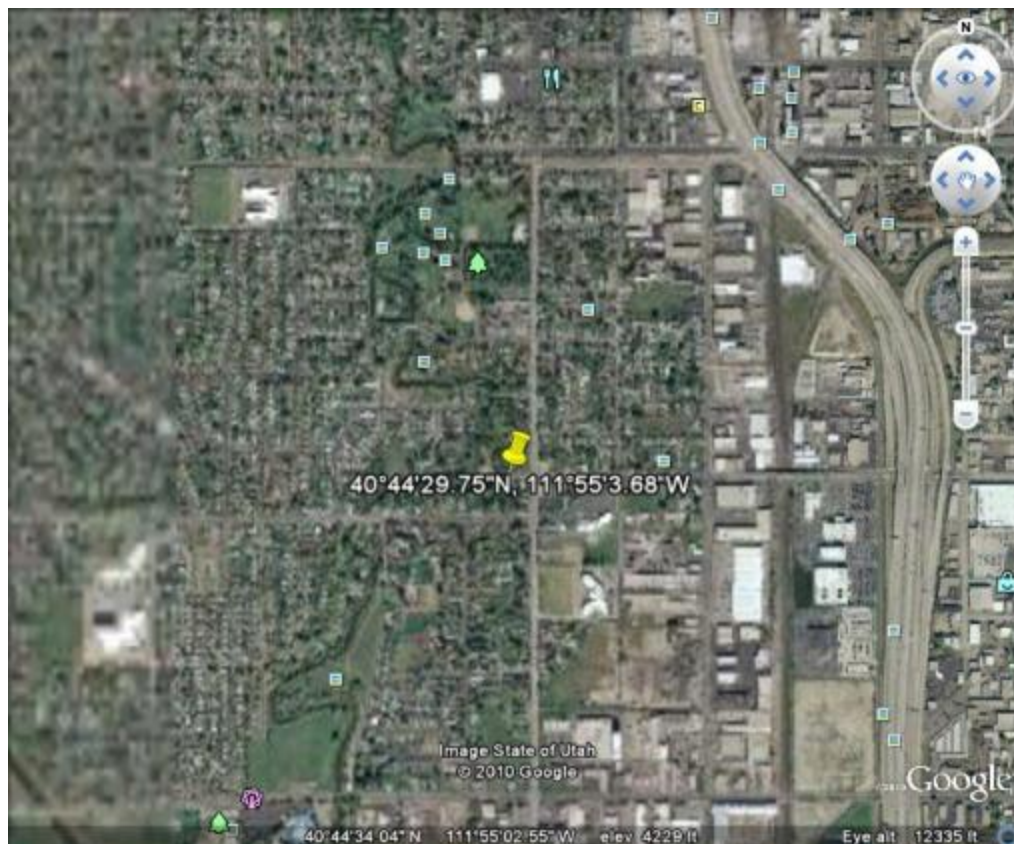
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Garden Ward Sample Site at 11th East and Harvard



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Sample Site at the Jordan River Confluence



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Sample Site at Sunnyside Park

