

Red Butte Creek Oil Release Air Monitoring Journal

Date	Location (Time)	Analyte	Method	Result	GPS Location	Comment		
8/23/10	Miller Park, along Red Butte Creek (1130-1150)	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 levels were low. 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 (1030-1040)	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 (1115-1120)	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 was 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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8/23/10	1100 East Harvard (1120-1125)	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 low. No crews were 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%		
	Liberty Park (1045-1055)	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 were working around lake.
		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 (1055-1100)	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	Relative	Wind	Wind	Altimeter	Station	Precip	Quality
		Point (f)	Humidity (%)	Direction	Speed (mph)	Setting (inches)	Pressure (inches)	24 hour (inches)	Control
23 Aug 12:10 pm	69	27	21	S	2G06	30.21	25.294	0.05	OK
23 Aug 11:55 am	68	35	29	SSE	2G08	30.21	25.294	0.05	OK
23 Aug 11:40 am	67	31	26	SSE	1G05	30.21	25.294	0.05	OK
23 Aug 11:25 am	65	38	37	S	3G05	30.22	25.302	0.05	OK
23 Aug 11:10 am	64	37	36	S	4G05	30.23	25.311	0.05	OK
23 Aug 10:55 am	63	40	43	S	G05	30.22	25.302	0.05	OK
23 Aug 10:40 am	62	44	51	NNE	G02	30.23	25.311	0.05	OK
23 Aug 10:25 am	60	43	53	NNE	1G03	30.23	25.311	0.05	OK

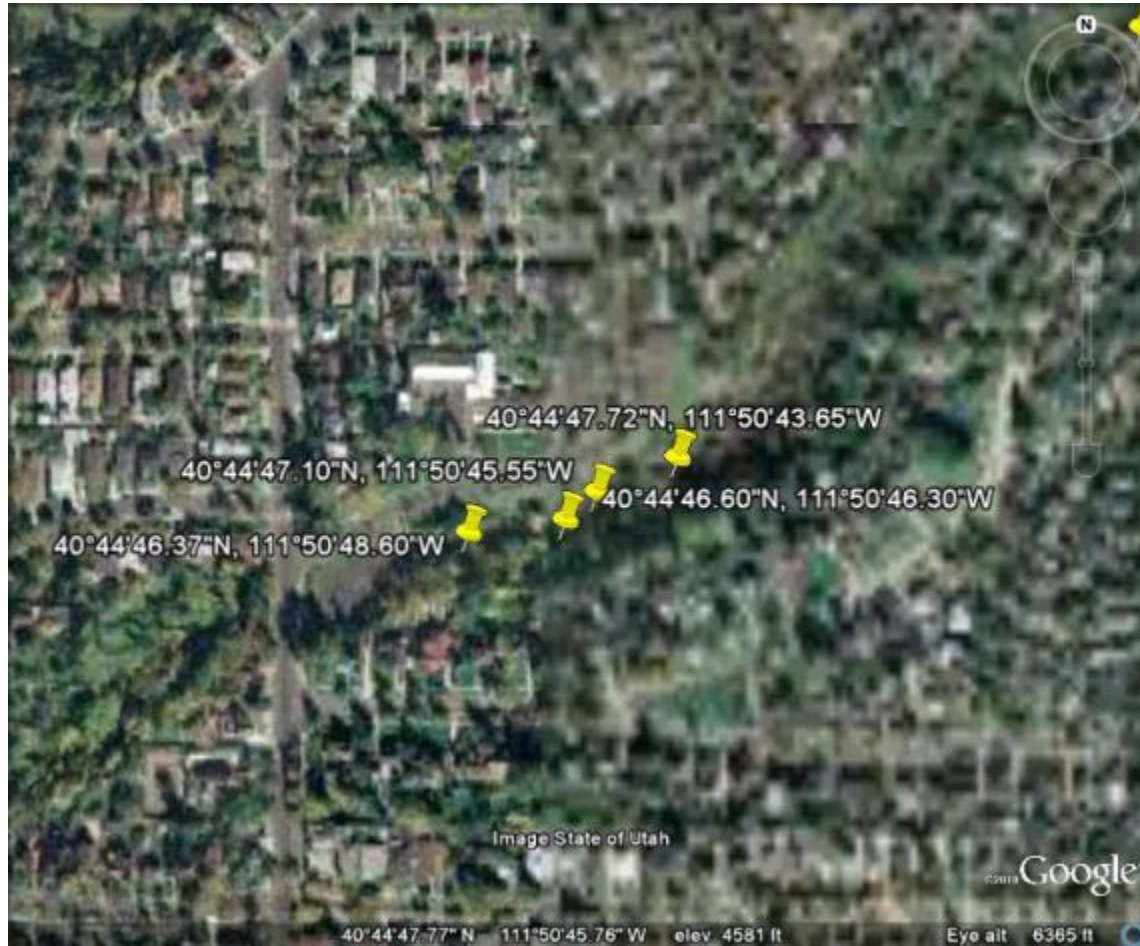
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Liberty Park Sample Sites



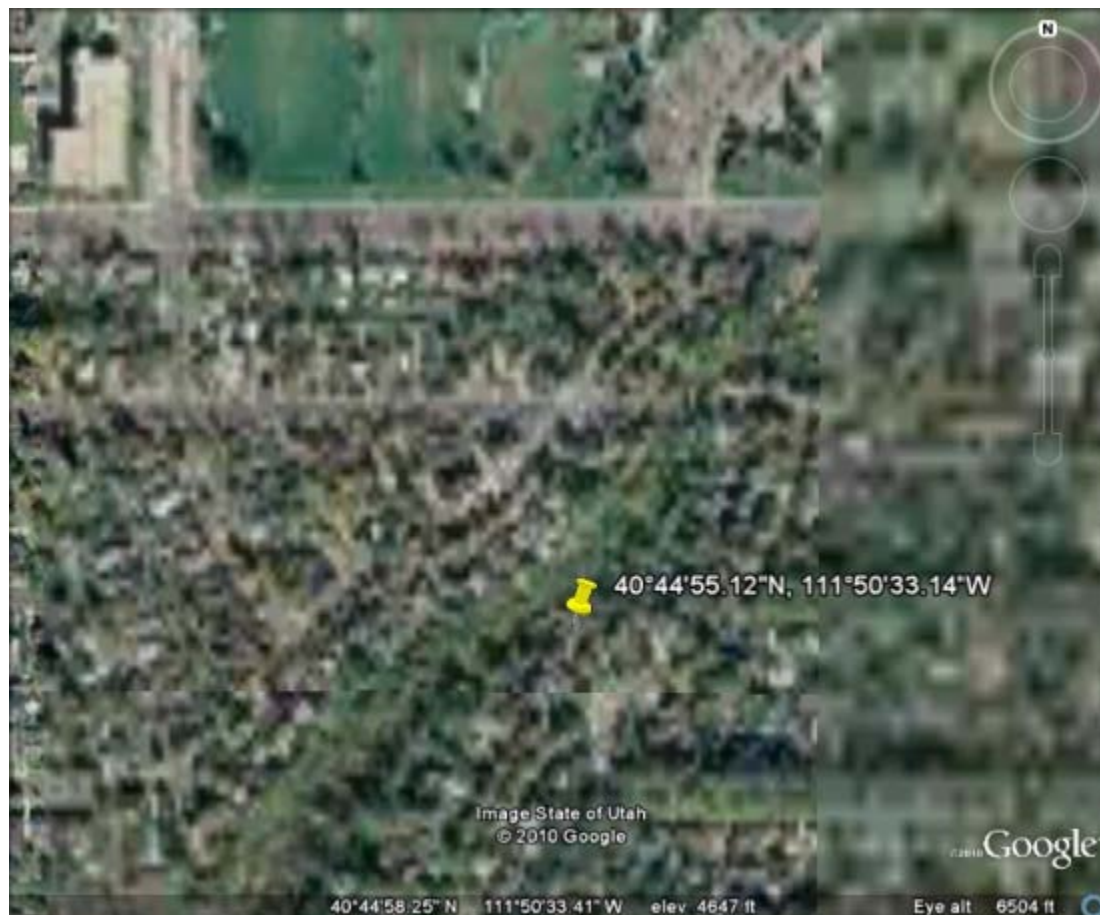
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Miller Park Sample Sites



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Resident Sample Site at 966 Military



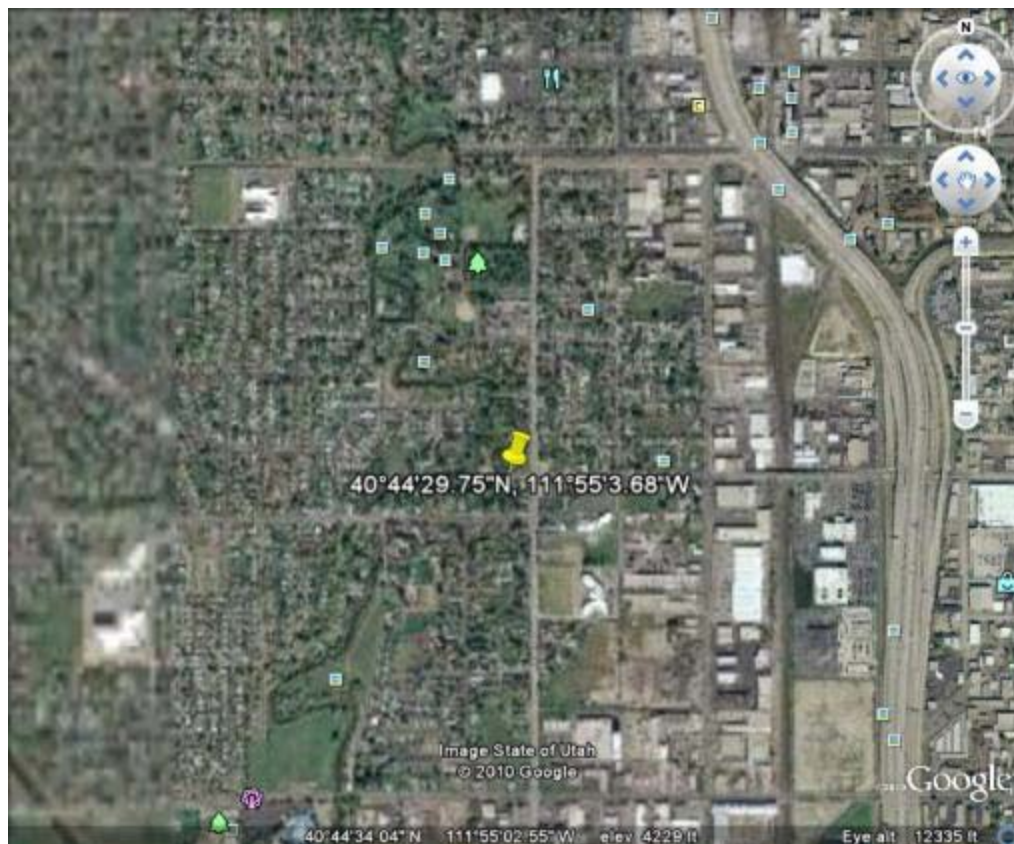
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Garden Ward Sample Site at 11th East and Harvard



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Sample Site at the Jordan River Confluence



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Sample Site at Sunnyside Park

