

Preliminary Analytical Results for Soil Samples taken at Residential Properties in the Tittabawassee River Floodplain by the DEQ in June through December of 2003

On Friday, February 20, 2004, the Department of Environmental Quality (DEQ) sent owners of 22 residential properties located within and along the Tittabawassee River floodplain the preliminary dioxin concentration results identified in soil samples collected from their property. These preliminary results are consistent with the results of prior floodplain soil samples collected by the DEQ. Prior results indicated that soil located within portions of property downstream of Midland that is or has been subjected to frequent flooding by the Tittabawassee River is contaminated with elevated concentrations of dioxin.

The DEQ has tabulated the preliminary dioxin analytical results for the soil samples collected at the residential properties. The samples were completed to further determine the nature and extent of the dioxin contamination and to support efforts by the Department of Community Health (DCH) to evaluate human health concerns related to dioxin contamination in the area. The DEQ has completed the total toxicity equivalent (TEQ) calculations of dioxin, so that the results can be compared to the 90 parts per trillion (ppt) dioxin criterion generated in accordance with Part 201, Environmental Remediation, of the Natural Resource and Environmental Protection Act, 1994 PA 451, as amended, and the Part 201 Administrative Rules.

Soil samples were collected in a similar manner to past Phase II sampling with samples collected at each location from depths of 0-1", 0-3", 3-6", and 6-12". The sample locations are labeled on the individual property maps included on this website. The first number of the sample label is the location of the sample on the individual property. The second number in the label is the depth of the sample, consequently #1-3 is located at location #1 and is soil taken from an auger hole from the ground surface to 3" deep. These TEQ results are preliminary until the final results are received from the database contractor.

The laboratory analysis (raw data), calculation worksheets and GPS coordinates for these samples are located at the DEQ Saginaw Bay District Office. If you have questions regarding this data, please call Ms. Sue Kaelber-Matlock, DEQ Remediation and Redevelopment Division, at 989-686-8025, extension 8303, or by electronic mail at matlocks@michigan.gov.

5580 Stroebel Road	9705 Midland Road	2840 River Road
#1-1, <5 ppt TEQ	#1-1, 10 ppt TEQ	#1-1, 50 ppt TEQ
#1-3, <5 ppt TEQ	#1-3, 20 ppt TEQ	#1-3, 50 ppt TEQ
#1-6, <5 ppt TEQ	#1-6, 30 ppt TEQ	#1-6, 100 ppt TEQ
#1-15, <5 ppt TEQ	#1-15, 50 ppt TEQ	#2-1, 410 ppt TEQ
#2-1, <5 ppt TEQ	#2-1, 40 ppt TEQ	#2-3, 300 ppt TEQ
#2-3, <5 ppt TEQ	#2-3, <5 ppt TEQ	#2-6, 320 ppt TEQ
#2-6, <10 ppt TEQ	#2-6, <10 ppt TEQ	#3-1, 270 ppt TEQ
#2-15, <5 ppt TEQ	#2-15, <10 ppt TEQ	#3-3, 330 ppt TEQ
#3-1, <10 ppt TEQ	#3-1, 20 ppt TEQ	
#3-3, <10 ppt TEQ	#3-3, 20 ppt TEQ	
#3-6, <10 ppt TEQ	#3-6, 360 ppt TEQ	
#3-15, <10 ppt TEQ	#3-15, 420 ppt TEQ	
#4-1, 60 ppt TEQ		
#4-3, 60 ppt TEQ		
#4-6, 90 ppt TEQ		
#4-15, 50 ppt TEQ		

5885 Midland Road	1133 St. Andrews Road	1901 Midland Road
#1-1, 810 ppt TEQ	#1-1, 80 ppt TEQ	#1-1, <5 ppt TEQ
#1-3, 820 ppt TEQ	#1-3, 240 ppt TEQ	#1-3, <5 ppt TEQ
#1-6, 1130 ppt TEQ	#1-6, 110 ppt TEQ	#1-6, <5 ppt TEQ
#1-15, 1030 ppt TEQ	#1-15, <5 ppt TEQ	#1-15, <5 ppt TEQ
#2-1, 30 ppt TEQ	#2-1, 520 ppt TEQ	#2-1, 80 ppt TEQ
#2-3, 20 ppt TEQ	#2-3, 1340 ppt TEQ	#2-3, 120 ppt TEQ
#2-6, 10 ppt TEQ		#2-6, 110 ppt TEQ
#2-15, 70 ppt TEQ		#2-15, 20 ppt TEQ
#3-1, 50 ppt TEQ		#3-1, 150 ppt TEQ
#3-3, <5 ppt TEQ		#3-3, 190 ppt TEQ
#3-6, <5 ppt TEQ		#4-1, 400 ppt TEQ
		#4-3, 650 ppt TEQ
		#4-6, 890 ppt TEQ
#4-1, 240 ppt TEQ		#4-15, 1570 ppt TEQ

3950 River Road	2580 River Road	2050 River Road
#1-1, 30 ppt TEQ	#1-1, 1110 ppt TEQ	#1-1, 20 ppt TEQ
#2-1, <5 ppt TEQ	#2-1, <5 ppt TEQ	#2-1, 80 ppt TEQ
#2-3, <10 ppt TEQ	#2-3, <5 ppt TEQ	#2-3, 220 ppt TEQ
#2-6, <5 ppt TEQ	#2-6, <5 ppt TEQ	#2-6, 240 ppt TEQ
#2-15, <10 ppt TEQ	#2-15, <5 ppt TEQ	#2-15, 40 ppt TEQ
#3-1, 280 ppt TEQ	#3-1, 400 ppt TEQ	#3-1, 70 ppt TEQ
#4-1, 370 ppt TEQ	#3-3, 250 ppt TEQ	#3-3, 70 ppt TEQ
#4-3, 860 ppt TEQ	#3-6, 210 ppt TEQ	#3-6, 160 ppt TEQ
#4-6, 510 ppt TEQ	#3-15, 30 ppt TEQ	#3-15, 60 ppt TEQ
#5-1, 920 ppt TEQ	#4-1, <5 ppt TEQ	
#5-3, 370 ppt TEQ		
#5-6, 230 ppt TEQ		
#5-15, 380 ppt TEQ		

5768 River Road	1105 Midland Road
#1-1, 80 ppt TEQ	#1-1, 40 ppt TEQ
#2-1, 550 ppt TEQ	#2-1, <10 ppt TEQ
#2-3, 530 ppt TEQ	
#2-6, 1130 ppt TEQ	
#3-1, 180 ppt TEQ	

1159 Midland Road	5585 Michigan Ave	5780 Stroebel Road
#1-1, 70 ppt TEQ	#1-1, 1100 ppt TEQ	#1-1, 50 ppt TEQ
#2-1, 20 ppt TEQ	#1-3, 1220 ppt TEQ	#2-1, 2640 ppt TEQ
#3-1, 50 ppt TEQ	#1-6, 950 ppt TEQ	#2-3, 80 ppt TEQ
#3-3, 60 ppt TEQ	#1-15, 1820 ppt TEQ	#2-6, 100 ppt TEQ
#3-6, 40 ppt TEQ	#2-1, 850 ppt TEQ	#2-15, 10 ppt TEQ
#3-15, 130 ppt TEQ	#2-3, 1450 ppt TEQ	#3-1, 60 ppt TEQ
#4-1, 260 ppt TEQ	#2-6, 2790 ppt TEQ	#3-3, 20 ppt TEQ
#4-3, 310 ppt TEQ	#2-15, 3140 ppt TEQ	#3-6, <5 ppt TEQ
#4-6, 560 ppt TEQ	#3-1, 90 ppt TEQ	#3-15, 60 ppt TEQ
#4-15, 590 ppt TEQ	#3-3, 160 ppt TEQ	#4-1, 250 ppt TEQ
	#3-6, 470 ppt TEQ	#4-3, 90 ppt TEQ
	#3-15, 10 ppt TEQ	#4-6, 110 TEQ
	#4-1, 50 ppt TEQ	#4-15, 60 ppt TEQ
	#4-3, 120 ppt TEQ	
	#4-6, 90 ppt TEQ	

225 Adams Road	6850 Wallace Road	6250 Stroebel Road
#1-1, 10 ppt TEQ	#1-1, 260 ppt TEQ	#1-1, 10 ppt TEQ
#2-1, 90 ppt TEQ	#2-1, 270 ppt TEQ	#2-1, <5 ppt TEQ
#3-1, 230 ppt TEQ	#2-3, 380 ppt TEQ	#2-3, <5 ppt TEQ
	#2-6, 370 ppt TEQ	#2-6, <5 ppt TEQ
	#2-15, 630 ppt TEQ	#3-1, <5 ppt TEQ
	#3-1, 310 ppt TEQ	#3-3, <5 ppt TEQ
	#3-3, 1970 ppt TEQ	#3-6, <5 ppt TEQ
	#3-6, 1010 ppt TEQ	
	#3-15, 180 ppt TEQ	

740 River Road	1845 Midland Road	1835 Midland Road
#1-1, <10 ppt TEQ	#1-1, <5 ppt TEQ	#1-1, 60 ppt TEQ
#1-3, <10 ppt TEQ	#1-3, <5 ppt TEQ	#1-3, <10 ppt TEQ
#1-6, 20 ppt TEQ	#1-6, <10 ppt TEQ	#1-6, 10 ppt TEQ
#1-15, <5 ppt TEQ	#1-15, <10 ppt TEQ	#1-15, 90 ppt TEQ
#2-1, <5 ppt TEQ	#2-1, <5 ppt TEQ	#2-1, <5 ppt TEQ
#2-3, <5 ppt TEQ	#2-3, <5 ppt TEQ	#2-3, <10 ppt TEQ
#2-6, <5 ppt TEQ	#2-6, <10 ppt TEQ	#2-6, <10 ppt TEQ
#2-15, <5 ppt TEQ	#2-15, <5 ppt TEQ	#2-15, 20 ppt TEQ
#3-1, 60 ppt TEQ	#3-1, 20 ppt TEQ	
#3-3, <10 ppt TEQ	#3-3, 50 ppt TEQ	
#3-6, <5 ppt TEQ	#3-6, 60 ppt TEQ	
#3-15, 250 ppt TEQ	#3-15, <10 ppt TEQ	

1180 River Road	9875 Midland Road	
#1-1, 30 ppt TEQ	#1-1, 20 ppt TEQ	
#1-3, 70 ppt TEQ	#2-1, 10 ppt TEQ	
#1-6, 70 ppt TEQ	#2-3, 10 ppt TEQ	
#1-15, <10 ppt TEQ	#2-6, <5 ppt TEQ	
#2-1, 410 ppt TEQ	#2-15, <5 ppt TEQ	
#2-3, 2270 ppt TEQ	#3-1, 20 ppt TEQ	
#2-6, 1100 ppt TEQ	#3-3, 20 ppt TEQ	
#2-15, 870 ppt TEQ	#3-6, 30 ppt TEQ	
#3-1, 2530 ppt TEQ	#3-15, <5 ppt TEQ	
#3-3, 920 ppt TEQ		
#3-6, 1480 ppt TEQ		
#3-15, 5660 ppt TEQ		
#4-1, 1130 ppt TEQ		
#4-3, 1390 ppt TEQ		
#4-6, 440 ppt TEQ		
#4-15, 360 ppt TEQ		