U-Link Montlake Tunnel Vibrations



1. Are you able to provide the street address of where you live or work in the Montlake neighborhood?

	Response Percent	Response Count
yes	100.0%	21
no	0.0%	0
	answered question	21
	skipped question	0

2. Have you at anytime since the end of August felt vibrations or heard sounds that seem to come from the ground or from your house itself?

	Response Percent	Response Count
YES	71.4%	15
NO	28.6%	6
	answered question	21
	skipped question	0

3. Do you think these sounds or sensations are associated with the Sound Transit Tunneling project that is happening under the Montlake neighborhood?

	Response Percent	Response Count
Yes	93.3%	14
No	0.0%	0
Not sure	6.7%	1
	answered question	15
	skipped question	6

4. What times of day do you feel and or hear these vibrations and or sounds? (check all that apply)

	Response Percent	Response Count
mornings (7AM - noon)	64.3%	9
afternoons (noon - 5PM)	35.7%	5
evenings (5PM - 10PM)	64.3%	9
nightime (10PM - 7AM)	71.4%	10
	answered question	14
	skipped question	7

5. You indicated you hear and or feel these vibrations and or sounds at night. Please indicate this experience as best you can.

	yes	no	Response Count
wakes me from sound sleep	22.2% (2)	77.8% (7)	9
prohibits me from falling back asleep if I am up for some other reason	30.0% (3)	70.0% (7)	10
leaves me wondering if I'll be able to fall back asleep before the next one hits	40.0% (4)	60.0% (6)	10
wakes my children	0.0% (0)	100.0% (8)	8
causes anxiety in me or family members	70.0% (7)	30.0% (3)	10
affects my pet or pets	14.3% (1)	85.7% (6)	7
		answered question	10
		skipped question	11

6. Do you suffer sleep loss from these vibrations or sounds? Response Percent Count yes 40.0% 4 no 60.0% 6 answered question 10

7. You indicated you may have lost sleep from these sounds or vibrations. Estimate the amount of sleep you think you have lost on an average weeknight.

	Response Percent	Response Count
less than 30 minutes	25.0%	1
30 to 60 minutes	25.0%	1
1-2 hours	25.0%	1
2-3 hours	25.0%	1
3-4 hours	0.0%	0
more than 4 hours	0.0%	0
	answered question	4
	skipped question	17

8. How do you sense these vibrations or sounds?

		Response Percent	Response Count
hear		35.7%	5
feel		0.0%	0
both hear and feel		64.3%	9
	answ	ered question	14
	skip	ped question	7

9. Thinking back to the period immediately before and the week after Thanksgiving, do you think these sounds and or vibrations changed?

	Response Percent	Response Count
not sure or wasn't around to compare	28.6%	4
they got better after the holiday	14.3%	2
they seemed about the same	28.6%	4
they got worse after the holiday	28.6%	4
	answered question	14
	skipped question	7

10. If you hear these sounds, try to pick from the following what best describes the things you hear (check all that apply)

	Response Percent	Response Count
high pitched whining	0.0%	0
pneumatic drill-like sound	20.0%	2
something like but clearly not airplanes or jets overhead	60.0%	6
something like but clearly not the sounds of vehicles in the street	40.0%	4
something like a very intense bass (sub woofer) speaker located near my home	80.0%	8
a deep churning, humming sound	60.0%	6
deep thumping sounds, like a huge bass drum	70.0%	7
something like distant artillery shells	10.0%	1
like a diesel engine accelerating	0.0%	0
like someone dragging a recycling bin up concrete steps	40.0%	4
	Please enter your own description if none of these fit	3
	answered question	10
	skipped question	11

11. If you feel vibrations, try to pick how they feel from this list (check all that apply)

	Response Percent	Response Count
tingles in my feet and legs	0.0%	0
just feel it in my bones	20.0%	1
distinct pulses of vibrations like someone touched my chair with an electric hair trimmer or other motor	20.0%	1
continuous vibrations like from a massage chair but not so intense	60.0%	3
	please enter your own description if needed	2
	answered question	5

12. How would you rank the intensity of the sounds or vibrations when they are at their most intense levels?

skipped question

16

	Response Percent	Response Count
only noticeable in a very quiet setting with no other noise or nearby activities	30.8%	4
intense enough to feel and or hear if I am undergoing normal activities	38.5%	5
they can be distracting during normal conversation, TV or radio	7.7%	1
I hear and or feel these vibrations or sounds no matter what	23.1%	3
	answered question	13
	skipped question	8

13. How would you rank intensity of the sounds or vibrations when they are at their softest or lowest levels?

	Response Percent	Response Count
only noticeable in a very quiet setting with no other noise or nearby activities	61.5%	8
intense enough to feel and or hear if I am undergoing normal activities	15.4%	2
they can be distracting during normal conversation, TV or radio	7.7%	1
I hear and or feel these vibrations or sounds no matter what	15.4%	2
	answered question	13
	skipped question	8

14. Try to rate how you feel when you sense these vibrations or sounds

	none	somewhat	a lot	Response Count
angry	61.5% (8)	23.1% (3)	15.4% (2)	13
fearful	69.2% (9)	15.4% (2)	15.4% (2)	13
anxious	46.2% (6)	38.5% (5)	15.4% (2)	13
irritated/annoyed	30.8% (4)	46.2% (6)	23.1% (3)	13
forgiving	84.6% (11)	15.4% (2)	0.0% (0)	13
depressed	92.3% (12)	0.0% (0)	7.7% (1)	13
calm	69.2% (9)	30.8% (4)	0.0% (0)	13
sad	76.9% (10)	15.4% (2)	7.7% (1)	13
happy	100.0% (13)	0.0% (0)	0.0% (0)	13
			answered question	13
			skipped question	8

15. Does the location in Montlake where you experience these vibrations and or sounds have a basement?

	Response Percent	Response Count
yes, there is basement	100.0%	13
no, the foundation is on ground level	0.0%	0
	answered question	13
	skipped question	8

16. Where in your home do you feel or hear these vibrations or sounds? (choose all that apply)

	Response Percent	Response Count
basement	92.3%	12
ground level floor	76.9%	10
upper floor(s)	46.2%	6
	answered question	13
	skipped question	8

17. Using numerical ranking where 1 is least and 5 is most, please rank the intensity you feel or hear sounds and or vibrations in your home or Montlake business

	0 (not at all)	1	2	3	4	5	Response Count
basement	7.7% (1)	0.0% (0)	15.4% (2)	23.1% (3)	15.4% (2)	38.5% (5)	13
ground floor	7.7% (1)	30.8% (4)	7.7% (1)	38.5% (5)	0.0% (0)	15.4% (2)	13
upper floor 1	33.3% (3)	33.3% (3)	11.1% (1)	11.1% (1)	11.1% (1)	0.0% (0)	9
upper floor 2	60.0% (3)	0.0% (0)	20.0% (1)	20.0% (1)	0.0% (0)	0.0% (0)	5
					answere	d question	13
					skippe	d question	8

18. Where in your home do you feel or hear these vibrations or sounds? (choose all that apply)

	Response Percent	Response Count
ground level floor	0.0%	0
upper floor(s)	0.0%	0
	answered question	0
	skipped question	21

19. Using numerical ranking where 1 is least and 5 is most, please rank the intensity you feel or hear sounds/vibrations in the following locations in your home

	0 (not at all)	1	2	3	4	5	Response Count
ground floor	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0
upper floor 1	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0
upper floor 2	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0
					answere	d question	0
					skippe	d question	21

20. As regards the issue of mass transport in general, how do you feel? Response Response Percent Count very friendly towards mass transport, we really need more 73.3% 11 and better of it supportive 13.3% 2 6.7% neutral 1 there is enough mass transit 0.0% 0 already

		around
15	answered question	

skipped question 6

6.7%

1

21. As regards Sound Transit in general, how do you feel?

mass transit should make way for more personal ways of getting

	Response Percent	Response Count
dislike Sound Transit much or most of the time	6.3%	1
not transparent and not trustworthy	6.3%	1
neutral about Sound Transit	12.5%	2
support Sound Transit's efforts in general	68.8%	11
Sound Transit is doing everything right	6.3%	1
	answered question	16
	skipped question	5

22. As regards the Sound Transit U-Link tunnel project design and concept, how do you feel?

	no opinion	agree	neutral	disagree	Response Count
Choice of a tunnel instead of a surface or elevated route	0.0% (0)	80.0% (12)	6.7% (1)	13.3% (2)	15
The location and convenience of stations	13.3% (2)	33.3% (5)	40.0% (6)	13.3% (2)	15
It will be something I look forward to using for my travel/commuting in the city	6.7% (1)	60.0% (9)	20.0% (3)	13.3% (2)	15
Seems like a complete waste of money	6.7% (1)	6.7% (1)	6.7% (1)	80.0% (12)	15
			an	swered question	15
			s	kipped question	6

Page 10, Q10. If you hear these sounds, try to pick from the following what best describes the things you hear (check all that apply)					
1	vibrations that sometimes cause paintings on walls to buzz	Dec 11, 2011 6:41 PM			
2	like a washing maching running in the next room	Dec 11, 2011 4:53 PM			
3	deep rumbling sound with vibration	Dec 10, 2011 4:04 PM			

_	0, Q11. If you feel vibrations, try to pick how they feel from this list all that apply)	
1	see answer to question 10	Dec 11, 2011 6:41 PM
2	subtle vibtration	Dec 10, 2011 4:04 PM