

# VANCOUVER RAT PROJECT ENVIRONMENTAL OBSERVATION TOOL

Date:			
Block	Number:_		
Block	Location:	 	

All block evaluations are to take place during working hours (8:00 am to 4:00 pm, Monday – Friday). For features showing temporal variation (e.g., human activity) night time and week-end characteristics will not be captured.

Block evaluations should take place as close to the time of active trapping as possible. This will ensure that the environmental characteristics recorded reflect those present at the time of trapping.

Unless otherwise stated, consider the block <u>as a</u> <u>whole</u> (including any and all features of that block visible from any block or alley face or that can be derived from aerial maps).

### Land Use Characteristics

#### Parcel Allotment

The following questions ask you to classify <u>parcels</u> as a whole according to their <u>predominant usage</u>.

Residential parcels include any parcel dedicated to be a permanent residence (e.g., houses, townhomes, etc.). <u>Commercial</u> parcels include those dedicated to retail or business (e.g., stores, restaurants, etc.). Industrial parcels include those dedicated to the production or processing of products (i.e., factories, warehouses, etc.). Institutional parcels include those dedicated to not-for-profit services (i.e., churches, outreach centers, etc.). Green space parcels include those dedicated solely to green space (i.e., gardens, parks, etc.). Parcels that include green space as well as structures should be assigned the land use of the structure. Vacant/undeveloped parcels refer to plots of land which are clearly not in use as indicated by lack of a structure on the property or lack of land development. Parcels under demolition include those containing buildings that are in the process of being demolished (parcels containing the remains of long demolished buildings should be considered *vacant/undeveloped*). *Parcels that are under* construction include those with buildings undergoing construction or major renovation and that do not contain any occupants. Abandoned parcels include those with structures that were previously used but are now vacant and not undergoing construction or demolition (do not include undeveloped lots, which have no structures). *Open parcels include those that do not contain any* buildings but that are not vacant/undeveloped, demolished, or green spaces (e.g., parking lots). Code <u>mixed</u> only if a predominant form cannot be determined (e.g. a street has 3 residences and 3 *commercial stores*). *Code other if none of the above* categories apply.

> 1. How would you characterize the **land use** on this block? (**Code the predominant form**)

Primarily residential1
Primarily commercial2
Primarily industrial3
Primarily institutional4
Primarily green space5
Primarily vacant/undeveloped lots6
Primarily under demolition7
Primarily under construction
Primarily abandoned9
Primarily open spaces10
Mixed
Other
If you stated 'other' please specify:

Answer q. 2-12 according to the <u>total block area</u> occupied by <u>parcels</u> corresponding to each of the following land uses.

2. Approximately what proportion of the block is occupied by residential parcels?
None .....0
Less than ¼.....1

Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	.2
Between 1/2 and 3/4	.3
More than <sup>3</sup> / <sub>4</sub>	.4

3. Approximately what proportion of the block is occupied by **commercial** parcels?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between 1/4 and 1/2	2
Between <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub>	3
More than <sup>3</sup> / <sub>4</sub>	4

4. Approximately what proportion of the block is occupied by **industrial** parcels?

None	.0
Less than <sup>1</sup> / <sub>4</sub>	.1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	.2
Between 1/2 and 3/4	.3
More than <sup>3</sup> / <sub>4</sub>	.4

5. Approximately what proportion of the block is occupied by **institutional** parcels?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between 1/4 and 1/2	2
Between <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub>	3
More than <sup>3</sup> / <sub>4</sub>	4

6. Approximately what proportion of the block is occupied by **green space** parcels?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between 1/4 and 1/2	2
Between <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub>	3
More than <sup>3</sup> / <sub>4</sub>	4

 Approximately what proportion of the block is occupied by vacant/undeveloped parcels?

None	 	0
Less than <sup>1</sup> / <sub>4</sub>	 	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	 	2
Between <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub>	 	3
More than <sup>3</sup> / <sub>4</sub>	 	4

8. Approximately what proportion of the block is occupied by parcels **under demolition**?

0
1
2
3
4

- 9. Approximately what proportion of the block is occupied by parcels under construction?
  None .....0
  Less than ¼....1
  Between ¼ and ½....2
  Between ¼ and ¾ ....3
  More than ¾ ....4
  10. Approximately what proportion of the block is occupied by parcels under construction?
- block is occupied by **abandoned** parcels? None .....0 Less than <sup>1</sup>/<sub>4</sub>....1 Between <sup>1</sup>/<sub>4</sub> and <sup>1</sup>/<sub>2</sub>....2 Between <sup>1</sup>/<sub>2</sub> and <sup>3</sup>/<sub>4</sub>....3 More than <sup>3</sup>/<sub>4</sub>....4
- 11. Approximately what proportion of the block is occupied by **open** parcels?

	1	2	1	
None			 	0
Less than <sup>1</sup> / <sub>4</sub>			 	1
Between 1/4 and	<sup>1</sup> /2		 	2
Between 1/2 and	3⁄4		 	3
More than <sup>3</sup> / <sub>4</sub>			 	4

12. Approximately what proportion of the block is occupied by other land uses?
None .....0
Less than <sup>1</sup>/<sub>4</sub>....1
Between <sup>1</sup>/<sub>4</sub> and <sup>1</sup>/<sub>2</sub>....2
Between <sup>1</sup>/<sub>2</sub> and <sup>3</sup>/<sub>4</sub>....3
More than <sup>3</sup>/<sub>4</sub>....4

### **Residential Density**

Questions 13-18 seek to quantify residential density.

Code <u>mixed</u> only if a predominant form cannot be determined (e.g. a street has 3 single family units and 3 duplexes).

If you stated 'mixed' please specify:

Answer the following questions according to the <u>total area</u> occupied by the <u>structures</u> of interest (vs. the parcels as a whole).

14. Approximately what proportion of the block is occupied by **single family houses**?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	2
Between 1/2 and 3/4	3
More than <sup>3</sup> / <sub>4</sub>	4

15. Approximately what proportion of the block is occupied by **duplexes or rowhouses**?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between 1/4 and 1/2	2
Between $\frac{1}{2}$ and $\frac{3}{4}$	3
More than <sup>3</sup> / <sub>4</sub>	4

16. Approximately what proportion of the block is occupied by low-rise apartment or condominium buildings (1-4 floors)?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between 1/4 and 1/2	2
Between <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub>	3
More than <sup>3</sup> / <sub>4</sub>	4

17. Approximately what proportion of the block is occupied by mid-rise apartment or condominium buildings (5-10 floors)?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	2
Between <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub>	3
More than <sup>3</sup> / <sub>4</sub>	4

18. Approximately what proportion of the block is occupied by high-rise apartment or condominium buildings (>10 floors)?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	2
Between 1/2 and 3/4	3
More than <sup>3</sup> / <sub>4</sub>	4

19. Approximately proportion of the block is occupied by housing units over commercial storefronts?None ......0

	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	2
Between 1/2 and 3/4	3
More than <sup>3</sup> / <sub>4</sub>	4

# Food-Associated Non-Residential Land Use

The following questions (q. 20-24) seek to identify and quantify the number of establishments <u>producing, storing, processing, selling, and/or</u> <u>providing food (not including residential buildings).</u> 'Other' buildings providing food include those not covered by the other categories but that can be reasonably expected to provide food to patrons (i.e., outreach centers, benevolence societies, etc.)

For buildings with different usages on different levels (i.e., non-residential units with housing above), the area of that building should be included in the following estimates of non-residential land use.

Answer the following questions according to the <u>total area</u> occupied by the <u>structures</u> of interest (vs. the parcels as a whole).

20. Approximately proportion of the block is occupied by non-residential **buildings not associated with food**?

8	
None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	2
Between 1/2 and 3/4	3
More than <sup>3</sup> / <sub>4</sub>	4

21. Approximately proportion of the block is occupied by **restaurants**?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	2
Between <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub>	3
More than <sup>3</sup> / <sub>4</sub>	4

22. Approximately proportion of the block is occupied by **groceries or other commercial venues selling food**?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	2
Between <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub>	3
More than <sup>3</sup> / <sub>4</sub>	4

23. Approximately proportion of the block is occupied by **industrial establishments producing, processing, and/or storing food**?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between 1/4 and 1/2	2
Between $\frac{1}{2}$ and $\frac{3}{4}$	3
More than <sup>3</sup> / <sub>4</sub>	4

24. Approximately proportion of the block is occupied by **'other' establishments associated with food?** 

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	2
Between <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub>	3
More than <sup>3</sup> / <sub>4</sub>	4

If you stated 'other' buildings providing food please specify:

### **Property Condition**

Use the following guide to code for building and property conditions.

<u>Extremely poor</u>: Structure looks unfit/unsafe for humans. Significant amount of broken glass, peeling paint, damaged structures (e.g. stairs, walls, etc.). Dirty and unkempt property with little or no apparent regard for upkeep of property. Major overhaul needed to improve property. Abundant refuse and/or severe overgrowth. May include abandoned structures and properties. Poor: Adequate living/workings conditions (albeit poor environment). Moderate amount of broken glass, peeling paint, damaged structures, etc. Considerable amount of work needed to improve property. Moderate amounts of refuse and/or overgrowth. Fair: Passable conditions with some attempt to keep property but moderate success. Some broken windows, peeling paint, damaged structures, etc. Would recommend a moderate amount of repair. Some refuse/overgrowth. Good: In decent working/living condition. Some repairs could be done (mainly for aesthetic reasons). Looks clean and well kept. Excellent: Immaculate/near perfect condition. No repair needed. Shows that extra care and effort has been directed towards upkeep. Mixed condition: Only code for two-grade differences wherein at least 25% of the properties are at one grade and 25% are two grades higher.

Answer q.24-36 based on your <u>general impression</u> of the <u>block as a whole</u>. For building condition, discount any buildings undergoing demolition, construction, or major renovation.

25. What is the general condition of the
buildings?
None/not applicable0
Extremely poor1
Poor
Fair3
Good4
Excellent5
Mixed (extreme difference)6
26 Annuaring stales what means ation of the
26. Approximately what proportion of the block is occupied by <b>buildings in</b> extremely poor condition?
block is occupied by <b>buildings in</b>
block is occupied by <b>buildings in</b> extremely poor condition?
block is occupied by <b>buildings in</b> extremely poor condition? None0
block is occupied by <b>buildings in</b> extremely poor condition? None0 Less than <sup>1</sup> / <sub>4</sub> 1
block is occupied by <b>buildings in</b> extremely poor condition? None0 Less than <sup>1</sup> / <sub>4</sub> 1 Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub> 2

27. Approximately what proportion of the block is occupied by **buildings in poor condition**?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	2
Between 1/2 and 3/4	3
More than <sup>3</sup> / <sub>4</sub>	4

28. Approximately what proportion of the block is occupied by **buildings in fair** condition?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between 1/4 and 1/2	2
Between $\frac{1}{2}$ and $\frac{3}{4}$	3
More than <sup>3</sup> / <sub>4</sub>	4

29. Approximately what proportion of the block is occupied by **buildings in good condition**?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	2
Between $\frac{1}{2}$ and $\frac{3}{4}$	3
More than <sup>3</sup> / <sub>4</sub>	4
	4

30. Approximately what proportion of the block is occupied by **buildings in** excellent condition?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	2
Between <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub>	3
More than <sup>3</sup> / <sub>4</sub>	4

Grounds include <u>any space</u> or parcel within a block that is <u>not occupied by a building</u>. May include open/undeveloped/green space parcels, as well as open spaces in a parcel with structures.

31. What is the general condition of the **grounds?** 

None/not applicable	0
Poor/deteriorated	1
Fair	2
Good	3
Excellent	4
Mixed (extreme difference)	5

32. Approximately what proportion of the block is occupied by **grounds in extremely poor condition**?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	2
Between <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub>	3
More than <sup>3</sup> / <sub>4</sub>	4

33. Approximately what proportion of the block is occupied by **grounds in poor condition**?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	2
Between <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub>	3
More than <sup>3</sup> / <sub>4</sub>	4

34. Approximately what proportion of the block is occupied by **grounds in fair condition**?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between 1/4 and 1/2	2
Between 1/2 and 3/4	3
More than <sup>3</sup> / <sub>4</sub>	4

35. Approximately what proportion of the block is occupied by **grounds in good condition**?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between 1/4 and 1/2	2
Between <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub>	3
More than <sup>3</sup> / <sub>4</sub>	4

36. Approximately what proportion of the block is occupied by **grounds in excellent condition**?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	2
Between <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub>	3
More than <sup>3</sup> / <sub>4</sub>	4

### **Green Space Characteristics**

For an area to be considered a green space it must: 1) show significant plant growth (i.e., areas with sparse grass or weeds should <u>not</u> be included) and 2) occupy a significant proportion of the property parcel (i.e., very small areas of plant growth in an otherwise build-up parcel should not be included).

Answer the following questions according to the <u>total area</u> occupied by the <u>green spaces</u> of interest (vs. parcels as a whole).

37. Approximately what proportion of the block is occupied by green snace?

block is occupied by green	space?
None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between 1/4 and 1/2	2
Between <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub>	3
More than <sup>3</sup> / <sub>4</sub>	4

Unkempt green space is an area that is overgrown by vegetation and/or does not appear to receive regular maintenance.

38. Approximately what proportion of the block is occupied by **unkempt** green space?None ......0

Less than <sup>1</sup> / <sub>4</sub>	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	2
Between <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub>	3
More than <sup>3</sup> / <sub>4</sub>	4

Well kept green space is considered to be green space that receives regular maintenance. It may include lawns, non-food gardens, or other landscaped areas.

39. Approximately what proportion of the block is occupied by well kept green space?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	2
Between 1/2 and 3/4	3
More than <sup>3</sup> / <sub>4</sub>	4

Green space that is in any way geared toward the production of produce should be considered to be a food garden.

40. Approximately what proportion of the block is occupied by <b>food gardens</b> ?
None0
Less than <sup>1</sup> / <sub>4</sub> 1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>
Between <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub>
More than <sup>3</sup> / <sub>4</sub> 4

#### **Alley Surface Characteristics**

For the following questions consider only the alley surface <u>at the alley face</u>. The alley face considered should include the <u>1m</u> of land on either side of the alley border.

Use the following definitions for questions 41-44. Only paved alley surfaces should be considered for this question.

<u>Poor</u>: Frequent/severe deep cracking of pavement (cracking sufficient to permit rat burrowing). Alley surface is broken up and in need of serious repair. <u>Fair</u>: Moderate amount of cracked pavement. Cracking is mainly superficial (unlikely to promote rat harborage). <u>Good</u>: Generally even surface with minimal cracking.

41. How would you rate the **general** condition of the **paved alley surfaces** at the alley faces?

Poor	1
Fair	2
Good	3

42. Approximately what proportion of the alley face is in **poor condition**?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	2
Between 1/2 and 3/4	3
More than <sup>3</sup> / <sub>4</sub>	4

43. Approximately what proportion of the alley face is in **fair condition**?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	2
Between <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub>	3
More than <sup>3</sup> / <sub>4</sub>	4

44. Approximately what proportion of the alley face is in **good condition**?

	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between <sup>1</sup> / <sub>4</sub> and <sup>1</sup> / <sub>2</sub>	
Between <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub>	3
More than <sup>3</sup> / <sub>4</sub>	4

Alley surface not covered in concrete or asphalt is considered unpaved. If there is any unpaved surface within 1 m of the alley border (regardless of total *depth) then that part of the alley face should be considered unpaved. Deeply cracked pavement should still be considered to be paved.* 

45. Approximately what proportion of the alley face is bordered by some sort of **non-paved surface**?

None	0
Less than <sup>1</sup> / <sub>4</sub>	1
Between 1/4 and 1/2	2
Between $\frac{1}{2}$ and $\frac{3}{4}$	3
More than <sup>3</sup> / <sub>4</sub>	4

A rat hole is considered to be any hole at the alley face that appears to have been created by a rat or that would reasonably permit the passage of an adult rat.

46. How many **rat holes** are there are at the alley face: \_\_\_\_\_\_

Rat corridors are spaces between buildings that may allow rats to access the alley face from deeper within the property

47. How many **rat corridors** are there at the alley face:\_\_\_\_\_

#### **Presence of Waste**

For the following questions consider only waste present <u>near the alley face on an average day</u>. The alley face considered should include the <u>5m</u> of land on either side of the alley border.

<u>A little</u> waste is when there is a very low volume of waste or the waste is confined to a small area. <u>A lot</u> of waste when there is a high volume of waste and/or waste is present throughout a large proportion of the alley. <u>Some</u> waste is somewhere between a little and a lot.

For question 48, garbage, litter, and junk include any organic or inorganic materials that have been discarded in places other than a designated receptacle. Open compost piles may be included.

\_

48. Is there garbage, trash, junk, o	or litter?
None	0
A little	1
Some	2
A lot	3

49. Is there garbage overflowing from
receptacles in the alley?
None0
A little1
Some2
A lot3

How many of each of the following types of receptacles are there?

- 50. Commercial garbage\_\_\_\_\_
- 51. Private garbage\_\_\_\_\_
- 52. Commercial recycling\_\_\_\_\_
- 53. Private recycling
- 54. Commercial organic\_\_\_\_\_
- 55. Private organic\_\_\_\_\_
- 56. Are there any obvious **strong odors** anywhere in the alley face (urine stench, rotting garbage, etc.)? No .....0 Yes.....1

### Alley Usage

Alleys may be used as transportation corridors (e.g., for foot or vehicular traffic, for moving goods into and out of buildings, etc.). Note that transportation may include transport of people, vehicles, or goods. Alleyways may also be used for loitering. Loitering is considered to be any nontransportation-related activity (i.e., socializing, resting, using drugs, etc.).

Use should be judged holistically through several morning and afternoon visitations during the trapping period. Use may also be inferred through signs of human presence (e.g., left over belongings or refuse, drug paraphernalia, etc.).

An alleyway is <u>lightly used</u> if very few people are seen and/or if people are seen infrequently. An alleyway is <u>heavily used</u> if groups of people are seen using the alley and/or if people are very frequently seen in the alley. A <u>moderately used</u> alley is somewhere between a lightly a heavily used one.

57. How heavily is this alleyway used by
people loitering?
Not used0
Lightly used1
Moderately used2
Heavily used

58. How heavily is this alleyway used as a
transportation corridor?
Not used0
Lightly used1
Moderately used2
Heavily used

# **General Comments**

\_

\_

\_