



**WINNIPEG OMNIBUS
FEBRUARY 2014:
BIOSOLIDS MASTER PLAN RESEARCH**

March 19, 2014

Prepared for:

The City of Winnipeg

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1.0 How this research was conducted

The Omnibus survey was conducted in February 2014 with 479 Winnipeggers 18 years of age and older. PRA interviewed respondents by telephone on a number of topics.

Respondents were selected by random digit dialling, which allows PRA to include those with unlisted or new numbers. This technique produces a random sample that includes the highest possible percentage of eligible respondents.

| Table 1: Summary of methodology | |
|--|----------------------------|
| February 2014 Omnibus | |
| Pretest | February 10, 2014 |
| Survey dates | February 10–March 1, 2014 |
| Sample size (Winnipeg) | n=479 |
| Interview method | Telephone |
| Sample selection | Random digit dialling |
| Approximate error rate (theoretical: Manitoba) | ± 4.6%, 19 times out of 20 |

1.1 Participant profile

Table 2 shows a profile of Winnipeggers who completed the February 2014 Omnibus and compares it to the 2011 Census.

| Table 2: Profile of participants — Winnipeg (unweighted) | | |
|---|--|--------------------------|
| | February 2014 Omnibus % (n = 479) | 2011 Census % |
| Gender | | |
| Women | 60% | 52% |
| Men | 41% | 49% |
| Age* | | |
| 18 to 29 | 11% | 22% |
| 30 to 39 | 10% | 25% |
| 40 to 64 | 48% | 35% |
| 65 and older | 32% | 18% |
| Income* | | |
| Under \$40,000 | 27% | 24% |
| \$40,000 to \$70,000 | 30% | 30% |
| \$70,000 to \$100,000 | 19% | 23% |
| Over \$100,000 | 23% | 24% |
| * Approximately, 21% of respondents were unable to provide their household income in February 2014. They have been removed from the percentages shown. Note: Totals may not sum to 100% due to rounding. | | |

1.2 Weighting

In some cases, when the random sample produces a divergence from Canadian census data, we correct for slight discrepancies in gender, age, and income. For example, since men tend to refuse to participate more often than women, and since younger people are often more difficult to find at home, we re-weight the data to conform more closely to Statistics Canada information.

The data presented in this report were weighted to correct for differences between the demographics of the sample and the Winnipeg population. Tables presented are weighted unless otherwise stated. Since this technique assigns a percentage “weight” to a respondent, the number of weighted respondents may be slightly different from the total number interviewed.

1.3 Caution

This document represents a summary of the results and is not intended to be an exhaustive examination of the findings.

2.0 Summary of results

Biosolids, commonly called sewage sludge, is the nutrient-rich end-product of sewage treatment. The City of Winnipeg is developing a Biosolids Master Plan (Master Plan) that will determine how it will manage biosolids in an environmentally sound, sustainable, and cost-effective manner, while meeting Provincial regulations.

2.1 Support for a Biosolids Master Plan

The majority of Winnipeg residents support the Biosolids Master Plan. We explained that biosolids is the nutrient-rich end-product of sewage treatment that contains significant amounts of organic nitrogen and phosphorus, that one of the most environmentally sustainable uses for biosolids is fertilizer, and that the City is developing a Biosolids Master Plan that will recover more nutrients but would also have a cost for all ratepayers of Winnipeg:

- ▶ 70% of residents supported such a plan, including 20% who strongly supported it.
- ▶ 23% oppose such a plan, including 10% who strongly oppose it.
- ▶ 7% of respondents did not provide an answer.

| Table 3: Level of Support for Biosolids Master Plan <i>The city is developing a Biosolids Master Plan that will determine how it will manage our biosolids in an environmentally sound, sustainable, and cost-effective manner, while meeting Provincial regulations. The plan will recover more nutrients but would also have a cost for all ratepayers of Winnipeg. Generally, would you say you...such a plan?</i> | |
|---|--|
| Support | February 2014 % (n = 479) |
| Strongly support | 20% |
| Somewhat support | 50% |
| Somewhat oppose | 13% |
| Strongly oppose | 10% |
| Don't know | 7% |
| Total | 100% |

2.1.1 Interest by demographics

Table 4 shows respondent support for the Biosolids Master Plan by various demographic subgroups. None of the differences between demographic subgroups are statistically significant.

- ▶ When examining results by those who are supportive overall (somewhat or strongly), respondents in the youngest age cohort (18–29 years of age) are most likely to support the Master Plan (83%) followed by respondents in the oldest age cohort (65 years and older, 70%). Interestingly, it is respondents 65 years of age and older who are most likely to strongly support the Master Plan (28%) compared to younger age cohorts (between 18% and 21%). Winnipeggers aged 30 to 64 were least likely to support the Master Plan (30–39 — 65%, 40–64 — 66% support).
- ▶ Respondent support does not notably vary by gender or household income.

| Table 4: Support Biosolids Master Plan | |
|---|--|
| Support | February 2014 % (n = 479) |
| Strongly support | 70% |
| Age | |
| 18 to 29 | 83% |
| 30 to 39 | 65% |
| 40 to 64 | 66% |
| 65 or older | 70% |
| Gender | |
| Female | 72% |
| Male | 68% |
| Household Income | |
| Under \$40,000 | 70% |
| \$40,000 to \$70,000 | 72% |
| \$70,000 to \$100,000 | 77% |
| Over \$100,000 | 72% |

2.2 Factors of importance

We explained to respondents that one of the unknowns and possible problems with using biosolids as a fertilizer is that it may contain small amounts of potentially harmful substances and compounds, such as pharmaceuticals, hormones, and the like. We also explained that there are concerns these substance may have an adverse effect on the environment, perhaps entering in our rivers and lakes, as well as the food supply.

The following is shown in Table 5:

- ▶ About 9 in 10 respondents report that *health impacts* (92%, including 81% very important), *keeping harmful substances off the land* (89%, including 77% very important), and *environmental sustainability* (86%, including 67% very important) are important considerations in a biosolids program.
- ▶ About 7 in 10 (71%) report that *reuse of valuable nutrients* is an important consideration to a biosolids program, including, 44% who say it is very important.
- ▶ Almost 6 in 10 (58%) respondents report *the cost of treating biosolids* is an important consideration for a program, including 33% who say it is very important.

| Table 5: Factors of importance | | | | | |
|---|---------------------------------|-----------------------------|------------------------------|-----------------------------|----------------------------|
| <i>When considering any program to best deal with biosolids, how important are each of the following considerations to you. Using a scale of 1 to 5, where 1 means it is not all important and 5 means it is very important to you, please rate how important it is that a biosolids program...</i> | | | | | |
| Rating | February 2014 % (n = 479) | | | | |
| | Health impacts | Harmful substances off land | Environmental sustainability | Reuse of valuable nutrients | Cost of treating biosolids |
| Important (4 or 5) | 92% | 89% | 86% | 71% | 58% |
| Neutral (3) | 3% | 6% | 9% | 18% | 29% |
| Not important (1 or 2) | 3% | 4% | 2% | 8% | 11% |
| Don't know | 2% | 2% | 2% | 3% | 3% |
| Total | 100% | 101% | 99% | 100% | 101% |
| Average rating (out of 5) | 4.7 | 4.6 | 4.5 | 4.1 | 3.8 |

Note: Rows may not sum to 100% due to rounding.

2.2.1 Factors of importance by demographics

Table 6 shows level of support for each of the five factors by demographic subgroup:

- ▶ Although not statistically significant, women are more likely than men to rate each of the factors as very important, with the exception of *cost of treating biosolids*.
- ▶ Winnipeggers in the youngest age cohort are less likely to consider *reuse of variable nutrients* and *cost of treating biosolids* as very important. This finding is statistically significant.

| Table 6: Very important factors | | | | | |
|---------------------------------|---------------------------------|-----------------------------|------------------------------|-----------------------------|----------------------------|
| Importance | February 2014 % (n = 479) | | | | |
| | Health impacts | Harmful substances off land | Environmental sustainability | Reuse of valuable nutrients | Cost of treating biosolids |
| Very important | 81% | 77% | 67% | 44% | 33% |
| Age | | | | | |
| 18 to 29 | 75% | 73% | 73% | 34% | 26% |
| 30 to 39 | 86% | 78% | 64% | 49% | 26% |
| 40 to 64 | 85% | 80% | 68% | 47% | 40% |
| 65 or older | 73% | 72% | 65% | 44% | 39% |
| Gender | | | | | |
| Male | 75% | 72% | 61% | 41% | 36% |
| Female | 87% | 81% | 74% | 48% | 31% |
| Household Income | | | | | |
| Under \$40,000 | 81% | 84% | 70% | 41% | 39% |
| \$40,000 to \$70,000 | 79% | 75% | 66% | 44% | 31% |
| \$70,000 to \$100,000 | 85% | 84% | 66% | 40% | 27% |
| Over \$100,000 | 84% | 67% | 66% | 47% | 32% |

Note: bold represents statistically significant differences.

2.2.2 Most important factor

Almost 9 in 10 respondents (91%) rated at least one of the five factors as very important (rating of 5 out of 5). Of these respondents:

- ▶ half believe that *health impacts* is the most important factor (50%);
- ▶ almost 1 in 4 believe that *keeping harmful substances off the land* is the most important factor (24%);
- ▶ just over 1 in 10 (11%) believe that *environmental sustainability* is the most important factor; and
- ▶ three percent believe that *the reuse of valuable nutrients* and the *cost of treating biosolids* is the most important factor.

| Table 7: Most important factor | |
|--|--|
| <i>When considering any program to best deal with biosolids, how important are each of the following considerations to you. Using a scale of 1 to 5, where 1 means it is not all important and 5 means it is very important to you, please rate how important it is that a biosolids program....</i> | |
| Most important factor | February 2014 % (n = 479) |
| Health impacts | 50% |
| Harmful substances off land | 24% |
| Environmental sustainability | 11% |
| Reuse of valuable nutrients | 3% |
| Cost of treating biosolids | 3% |
| None | 7% |
| Don't know | 2% |
| Total | 100% |

Appendix A – Questionnaire

BS1:

BS1. Changing topics... Biosolids, more commonly called sewage sludge, is the nutrient-rich end-product of sewage treatment. Since the sludge contains significant amounts of organic nitrogen and phosphorus, one of the most environmentally sustainable uses for this sludge is as a fertilizer. The City is developing a Biosolids Master Plan that will determine how it will manage our biosolids in an environmentally sound, sustainable and cost-effective manner, while meeting Provincial regulations. The plan will recover more nutrients but would also have a cost for all ratepayers of Winnipeg. (PROMPT: Through your water bill) Generally, would you say you...(READ RESPONSES)...such a plan?

Strongly support 4
Somewhat support 3
Somewhat oppose 2
Strongly oppose 1
(DO NOT READ) Don't know 8
(DO NOT READ) No response 9

BS2X:

BS2X. One of the unknowns and possible problems with using biosolids as a fertilizer is that it may contain small amounts of potentially harmful substances and compounds, such as pharmaceuticals, hormones, and the like. There are concerns these substances may have an adverse effect on the environment, perhaps entering in our rivers and lakes, as well as the food supply. When considering any program to best deal with Biosolids, how important are each of the following considerations to you. Using a scale of 1 to 5, where 1 means it is not all important and 5 means it is very important to you, please rate how important the following are to a biosolids program...

CONTINUE..... 1 D

BS2:

invalid -> BS6

BS2. How important is.... ..Environmental sustainability? (PROMPT: Please use a scale of 1 to 5, where 1 means it is not all important and 5 means it is very important.)

5 - Very important 5
4 4
3 3
2 2
1 - Not at all important 1
Don't know 8
No response 9

BS3:

BS3. How important is.... ..Health impacts? (PROMPT: Please use a scale of 1 to 5, where 1 means it is not all important and 5 means it is very important.)

5 - Very important 5
4 4
3 3
2 2
1 - Not at all important 1
Don't know 8
No response 9

BS4:

BS4. How important is.... ..Keeping any harmful substances off the land? (PROMPT: Please use a scale of 1 to 5, where 1 means it is not all important and 5 means it is very important.)

| | |
|--------------------------------|---|
| 5 - Very important | 5 |
| 4 | 4 |
| 3 | 3 |
| 2 | 2 |
| 1 - Not at all important | 1 |
| Don't know | 8 |
| No response | 9 |

BS5:

BS5. How important is.... ..Reuse of valuable nutrients? (PROMPT: Please use a scale of 1 to 5, where 1 means it is not all important and 5 means it is very important.)

| | |
|--------------------------------|---|
| 5 - Very important | 5 |
| 4 | 4 |
| 3 | 3 |
| 2 | 2 |
| 1 - Not at all important | 1 |
| Don't know | 8 |
| No response | 9 |

BS6:

BS6. How important is.... ..Cost of treating biosolids? (PROMPT: Please use a scale of 1 to 5, where 1 means it is not all important and 5 means it is very important.)

| | |
|--------------------------------|---|
| 5 - Very important | 5 |
| 4 | 4 |
| 3 | 3 |
| 2 | 2 |
| 1 - Not at all important | 1 |
| Don't know | 8 |
| No response | 9 |

BS7:

BS7. You mentioned more than one of these as very important, which one of these is the most important to you? (READ RESPONSES)

| | |
|---|----|
| Environment sustainability | 01 |
| Health impacts | 02 |
| Keeping any harmful substances off the land | 03 |
| Reuse of valuable nutrients..... | 04 |
| Cost of treating biosolids | 05 |
| (DO NOT READ) Don't know | 88 |
| (DO NOT READ) No response | 99 |

Appendix B – Call Record

Call record for Winnipeg Omnibus
 February 2014

| Call Record for Winnipeg Omnibus: February 2014 | | |
|---|------------|------|
| Outcome | Month Year | |
| | N | % |
| A Total numbers attempted | 13,400 | 100% |
| 1. Not in service | 1,446 | 11% |
| 2. Fax | 179 | 1% |
| 3. Business | 57 | <1% |
| Remaining | 11,718 | 87% |
| B Total eligible numbers | 11,718 | 100% |
| 4. Busy | 170 | 1% |
| 5. Answering machines | 3,114 | 27% |
| 6. No answer | 1,905 | 16% |
| 7/8. Language/illness/incapability | 296 | 2% |
| 9. Selected/eligible respondent not available | 462 | 4% |
| Remaining | 5,771 | 49% |
| C Total asked | 5,771 | 100% |
| 10. Household refusal | 531 | 9% |
| 11. Respondent refusal | 2,412 | 42% |
| 12. Qualified respondent break off | 38 | <1% |
| Remaining | 2,790 | 48% |
| D Co-operative contacts | 2,790 | 100% |
| 13. Disqualified | 2,311 | 83% |
| 14. Completed interviews | 479 | 17% |
| Refusal rate = (10+11+12)/C | 2,981 | 52% |
| Response rate (D/B) | 2,790 | 24% |

Appendix C – Banners

BS1. Generally, would you say you support/oppose the Biosolids Master Plan?

| | Overall | Region | Gender | | Age | | | |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | Winnipeg | Female | Male | 18 to 29 | 30 to 39 | 40 to 64 | 65 and over |
| Oppose (1 2) | 110 23% | 110 23% | 46 19% | 63 27% | 14 13% | 31 25% | 46 28% | 19 22% |
| Support (3 4) | 335 70% | 335 70% | 173 72% | 161 68% | 86 83% | 81 65% | 109 66% | 58 70% |
| DK / NR | 35 7% | 35 7% | 22 9% | 13 5% | 4 4% | 13 10% | 11 7% | 6 8% |
| Total N | 479 100% | 479 100% | 242 100% | 237 100% | 104 100% | 125 100% | 167 100% | 83 100% |

BS1. Generally, would you say you support/oppose the Biosolids Master Plan?

| | Overall | Annual Family Income | | | | Education | | | |
|---------------|-------------|----------------------|----------------------|-----------------------|----------------|---------------|-------------|---------------------|------------------------|
| | | Under \$40,000 | \$40,000 to \$70,000 | \$70,000 to \$100,000 | Over \$100,000 | < High school | High school | Some post-secondary | Univ. / Coll. graduate |
| Oppose (1 2) | 110 23% | 18 23% | 24 22% | 15 15% | 22 22% | 9 35% | 16 19% | 22 24% | 62 22% |
| Support (3 4) | 335 70% | 52 70% | 82 72% | 79 77% | 73 72% | 16 60% | 59 72% | 67 72% | 192 70% |
| DK / NR | 35 7% | 5 7% | 7 6% | 8 8% | 6 6% | 1 6% | 7 9% | 3 4% | 21 8% |
| Total N | 479 100% | 75 100% | 113 100% | 103 100% | 101 100% | 27 100% | 83 100% | 92 100% | 274 100% |

BS2. How important is environmental sustainability?

| | Overall | Region | Gender | | Age | | | |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | Winnipeg | Female | Male | 18 to 29 | 30 to 39 | 40 to 64 | 65 and over |
| Not important (1 2) | 10 2% | 10 2% | 5 2% | 5 2% | | 2 2% | 4 2% | 4 5% |
| Neutral (3) | 44 9% | 44 9% | 15 6% | 30 13% | 7 6% | 17 13% | 12 7% | 9 11% |
| Important (4 5) | 413 86% | 413 86% | 214 88% | 200 84% | 98 94% | 106 85% | 146 88% | 64 77% |
| DK / NR | 11 2% | 11 2% | 8 3% | 3 1% | | | 5 3% | 6 7% |
| Total | 479 100% | 479 100% | 242 100% | 237 100% | 104 100% | 125 100% | 167 100% | 83 100% |
| Mean | 4.54 | 4.54 | 4.64 | 4.45 | 4.66 | 4.45 | 4.58 | 4.46 |
| Median | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| Valid N | 468 | 468 | 233 | 234 | 104 | 125 | 161 | 77 |

BS2. How important is environmental sustainability?

| | Overall | Annual Family Income | | | | Education | | | |
|---------------------|---------|----------------------|----------------------|-----------------------|----------------|---------------|-------------|---------------------|------------------------|
| | | Under \$40,000 | \$40,000 to \$70,000 | \$70,000 to \$100,000 | Over \$100,000 | < High school | High school | Some post-secondary | Univ. / Coll. graduate |
| Not important (1 2) | 10 | 2 | 4 | 1 | 1 | 1 | 2 | 0 | 5 |
| | 2% | 2% | 4% | 1% | 1% | 5% | 2% | 1% | 2% |
| Neutral (3) | 44 | 7 | 8 | 7 | 14 | 3 | 9 | 5 | 28 |
| | 9% | 9% | 7% | 7% | 14% | 10% | 10% | 5% | 10% |
| Important (4 5) | 413 | 63 | 97 | 93 | 86 | 21 | 71 | 85 | 235 |
| | 86% | 83% | 86% | 91% | 85% | 79% | 86% | 93% | 86% |
| DK / NR | 11 | 4 | 3 | 2 | | 2 | 1 | 2 | 6 |
| | 2% | 5% | 2% | 2% | | 7% | 1% | 2% | 2% |
| Total | 479 | 75 | 113 | 103 | 101 | 27 | 83 | 92 | 274 |
| | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| Mean | 4.54 | 4.56 | 4.51 | 4.59 | 4.50 | 4.60 | 4.55 | 4.64 | 4.52 |
| Median | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| Valid N | 468 | 72 | 110 | 101 | 101 | 25 | 82 | 91 | 269 |

BS3. How important is health impacts?

| | Overall | Region | Gender | | Age | | | |
|---------------------|---------|----------|--------|------|----------|----------|----------|-------------|
| | | Winnipeg | Female | Male | 18 to 29 | 30 to 39 | 40 to 64 | 65 and over |
| Not important (1 2) | 14 | 14 | 4 | 10 | 5 | 2 | 3 | 4 |
| | 3% | 3% | 2% | 4% | 5% | 2% | 2% | 5% |
| Neutral (3) | 14 | 14 | 4 | 11 | 2 | 3 | 4 | 5 |
| | 3% | 3% | 2% | 4% | 2% | 2% | 2% | 6% |
| Important (4 5) | 443 | 443 | 230 | 213 | 97 | 120 | 157 | 69 |
| | 92% | 92% | 95% | 90% | 93% | 96% | 94% | 83% |
| DK / NR | 8 | 8 | 4 | 4 | | | 4 | 4 |
| | 2% | 2% | 2% | 2% | | | 2% | 5% |
| Total | 479 | 479 | 242 | 237 | 104 | 125 | 167 | 83 |
| | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| Mean | 4.71 | 4.71 | 4.82 | 4.60 | 4.59 | 4.79 | 4.80 | 4.58 |
| Median | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| Valid N | 471 | 471 | 238 | 233 | 104 | 125 | 163 | 79 |

BS3. How important is health impacts?

| | Overall | Annual Family Income | | | | Education | | | |
|---------------------|-------------|----------------------|----------------------|-----------------------|----------------|---------------|-------------|---------------------|------------------------|
| | | Under \$40,000 | \$40,000 to \$70,000 | \$70,000 to \$100,000 | Over \$100,000 | < High school | High school | Some post-secondary | Univ. / Coll. graduate |
| Not important (1 2) | 14 3% | 4 5% | 2 2% | 1 1% | 3 3% | 1 2% | 5 6% | 3 3% | 5 2% |
| Neutral (3) | 14 3% | 1 1% | 7 6% | 1 1% | 1 1% | 1 5% | 2 2% | 0 1% | 10 4% |
| Important (4 5) | 443 92% | 69 91% | 103 91% | 99 97% | 97 96% | 24 90% | 75 91% | 87 94% | 256 93% |
| DK / NR | 8 2% | 2 3% | 1 1% | 2 2% | | 1 4% | 1 2% | 2 2% | 3 1% |
| Total | 479 100% | 75 100% | 113 100% | 103 100% | 101 100% | 27 100% | 83 100% | 92 100% | 274 100% |
| Mean | 4.71 | 4.67 | 4.70 | 4.84 | 4.74 | 4.75 | 4.63 | 4.69 | 4.76 |
| Median | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| Valid N | 471 | 73 | 111 | 101 | 101 | 26 | 81 | 91 | 271 |

BS4. How important is keeping any harmful substances off the land?

| | Overall | Region | Gender | | Age | | | |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | Winnipeg | Female | Male | 18 to 29 | 30 to 39 | 40 to 64 | 65 and over |
| Not important (1 2) | 17 4% | 17 4% | 4 2% | 13 5% | 7 7% | 2 2% | 3 2% | 5 6% |
| Neutral (3) | 28 6% | 28 6% | 11 5% | 17 7% | 6 6% | 4 4% | 11 7% | 6 7% |
| Important (4 5) | 426 89% | 426 89% | 222 92% | 204 86% | 90 87% | 118 95% | 151 90% | 67 80% |
| DK / NR | 8 2% | 8 2% | 4 2% | 4 1% | | | 2 1% | 6 7% |
| Total | 479 100% | 479 100% | 242 100% | 237 100% | 104 100% | 125 100% | 167 100% | 83 100% |
| Mean | 4.63 | 4.63 | 4.72 | 4.53 | 4.51 | 4.69 | 4.69 | 4.55 |
| Median | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| Valid N | 471 | 471 | 238 | 234 | 104 | 125 | 165 | 78 |

BS4. How important is keeping any harmful substances off the land?

| | Overall | Annual Family Income | | | | Education | | | |
|---------------------|-------------|----------------------|----------------------|-----------------------|----------------|---------------|-------------|---------------------|------------------------|
| | | Under \$40,000 | \$40,000 to \$70,000 | \$70,000 to \$100,000 | Over \$100,000 | < High school | High school | Some post-secondary | Univ. / Coll. graduate |
| Not important (1 2) | 17 4% | 2 2% | 5 5% | 1 1% | 5 5% | 1 2% | 3 3% | 5 5% | 9 3% |
| Neutral (3) | 28 6% | 2 2% | 8 8% | 4 3% | 9 9% | 1 5% | 3 4% | 5 6% | 18 7% |
| Important (4 5) | 426 89% | 70 93% | 98 87% | 97 94% | 86 86% | 23 87% | 75 91% | 81 88% | 245 89% |
| DK / NR | 8 2% | 1 2% | 1 1% | 1 1% | 1 1% | 2 6% | 1 2% | 1 1% | 2 1% |
| Total | 479 100% | 75 100% | 113 100% | 103 100% | 101 100% | 27 100% | 83 100% | 92 100% | 274 100% |
| Mean | 4.63 | 4.76 | 4.56 | 4.79 | 4.46 | 4.67 | 4.76 | 4.54 | 4.62 |
| Median | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| Valid N | 471 | 74 | 111 | 101 | 100 | 25 | 81 | 91 | 272 |

BS5. How important is reuse of valuable nutrients?

| | Overall | Region | Gender | | Age | | | |
|---------------------|---------|----------|--------|------|----------|----------|----------|-------------|
| | | Winnipeg | Female | Male | 18 to 29 | 30 to 39 | 40 to 64 | 65 and over |
| Not important (1 2) | 40 | 40 | 19 | 21 | 12 | 7 | 15 | 5 |
| | 8% | 8% | 8% | 9% | 12% | 6% | 9% | 6% |
| Neutral (3) | 86 | 86 | 36 | 50 | 16 | 31 | 24 | 14 |
| | 18% | 18% | 15% | 21% | 15% | 25% | 14% | 17% |
| Important (4 5) | 340 | 340 | 179 | 161 | 76 | 86 | 123 | 55 |
| | 71% | 71% | 74% | 68% | 73% | 69% | 74% | 66% |
| DK / NR | 13 | 13 | 8 | 5 | | | 5 | 8 |
| | 3% | 3% | 3% | 2% | | | 3% | 10% |
| Total | 479 | 479 | 242 | 237 | 104 | 125 | 167 | 83 |
| | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| Mean | 4.06 | 4.06 | 4.14 | 3.98 | 3.91 | 4.10 | 4.09 | 4.12 |
| Median | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| Valid N | 466 | 466 | 234 | 232 | 104 | 125 | 162 | 75 |

BS5. How important is reuse of valuable nutrients?

| | Overall | Annual Family Income | | | | Education | | | |
|---------------------|---------|----------------------|----------------------|-----------------------|----------------|---------------|-------------|---------------------|------------------------|
| | | Under \$40,000 | \$40,000 to \$70,000 | \$70,000 to \$100,000 | Over \$100,000 | < High school | High school | Some post-secondary | Univ. / Coll. graduate |
| Not important (1 2) | 40 | 7 | 10 | 1 | 12 | 2 | 8 | 10 | 19 |
| | 8% | 10% | 9% | 1% | 12% | 9% | 10% | 10% | 7% |
| Neutral (3) | 86 | 14 | 13 | 33 | 15 | 2 | 21 | 12 | 50 |
| | 18% | 19% | 11% | 32% | 15% | 8% | 26% | 13% | 18% |
| Important (4 5) | 340 | 50 | 88 | 68 | 73 | 19 | 50 | 69 | 200 |
| | 71% | 67% | 78% | 66% | 72% | 72% | 60% | 75% | 73% |
| DK / NR | 13 | 3 | 2 | 1 | 1 | 3 | 3 | 1 | 4 |
| | 3% | 5% | 2% | 1% | 1% | 11% | 4% | 1% | 2% |
| Total | 479 | 75 | 113 | 103 | 101 | 27 | 83 | 92 | 274 |
| | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| Mean | 4.06 | 3.95 | 4.13 | 4.07 | 4.00 | 4.18 | 3.94 | 4.01 | 4.11 |
| Median | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.98 | 4.00 | 4.00 | 4.00 |
| Valid N | 466 | 72 | 110 | 101 | 100 | 24 | 79 | 91 | 270 |

BS6. How important is cost of treating biosolids?

| | Overall | Region | Gender | | Age | | | |
|---------------------|---------|----------|--------|------|----------|----------|----------|-------------|
| | | Winnipeg | Female | Male | 18 to 29 | 30 to 39 | 40 to 64 | 65 and over |
| Not important (1 2) | 51 | 51 | 27 | 25 | 18 | 9 | 15 | 9 |
| | 11% | 11% | 11% | 10% | 18% | 7% | 9% | 11% |
| Neutral (3) | 136 | 136 | 68 | 68 | 27 | 48 | 42 | 19 |
| | 28% | 28% | 28% | 29% | 26% | 38% | 25% | 23% |
| Important (4 5) | 277 | 277 | 139 | 139 | 59 | 68 | 104 | 46 |
| | 58% | 58% | 57% | 58% | 56% | 55% | 63% | 55% |
| DK / NR | 14 | 14 | 8 | 6 | | | 6 | 8 |
| | 3% | 3% | 3% | 3% | | | 3% | 10% |
| Total | 479 | 479 | 242 | 237 | 104 | 125 | 167 | 83 |
| | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| Mean | 3.78 | 3.78 | 3.74 | 3.83 | 3.57 | 3.72 | 3.93 | 3.86 |
| Median | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| Valid N | 465 | 465 | 234 | 231 | 104 | 125 | 161 | 75 |

BS6. How important is cost of treating biosolids?

| | Overall | Annual Family Income | | | | Education | | | |
|---------------------|---------|----------------------|----------------------|-----------------------|----------------|---------------|-------------|---------------------|------------------------|
| | | Under \$40,000 | \$40,000 to \$70,000 | \$70,000 to \$100,000 | Over \$100,000 | < High school | High school | Some post-secondary | Univ. / Coll. graduate |
| Not important (1 2) | 51 | 13 | 13 | 5 | 10 | 3 | 8 | 10 | 29 |
| | 11% | 18% | 12% | 5% | 10% | 13% | 10% | 11% | 11% |
| Neutral (3) | 136 | 14 | 26 | 37 | 38 | 4 | 17 | 27 | 88 |
| | 28% | 18% | 23% | 36% | 38% | 16% | 21% | 29% | 32% |
| Important (4 5) | 277 | 45 | 70 | 60 | 52 | 15 | 56 | 53 | 152 |
| | 58% | 60% | 62% | 58% | 52% | 56% | 68% | 58% | 55% |
| DK / NR | 14 | 3 | 3 | 1 | 1 | 4 | 1 | 2 | 6 |
| | 3% | 4% | 3% | 1% | 1% | 14% | 1% | 2% | 2% |
| Total | 479 | 75 | 113 | 103 | 101 | 27 | 83 | 92 | 274 |
| | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| Mean | 3.78 | 3.79 | 3.75 | 3.81 | 3.71 | 3.81 | 3.99 | 3.75 | 3.74 |
| Median | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| Valid N | 465 | 72 | 110 | 101 | 100 | 23 | 82 | 90 | 269 |

BS7. You mentioned more than one of these as very important, which one of these is the most important to you?

| | Overall | Region | Gender | | Age | | | |
|---|---------|----------|--------|------|----------|----------|----------|-------------|
| | | Winnipeg | Female | Male | 18 to 29 | 30 to 39 | 40 to 64 | 65 and over |
| Environment sustainability | 48 | 48 | 16 | 33 | 15 | 12 | 12 | 9 |
| | 12% | 12% | 7% | 18% | 19% | 11% | 8% | 14% |
| Health impacts | 223 | 223 | 132 | 91 | 43 | 63 | 82 | 35 |
| | 56% | 56% | 62% | 50% | 53% | 61% | 56% | 54% |
| Keeping any harmful substances off the land | 94 | 94 | 55 | 39 | 24 | 17 | 40 | 13 |
| | 24% | 24% | 26% | 21% | 29% | 17% | 27% | 20% |
| Reuse of valuable nutrients | 12 | 12 | 3 | 9 | | 6 | 2 | 4 |
| | 3% | 3% | 1% | 5% | | 6% | 2% | 6% |
| Cost of treating biosolids | 10 | 10 | 3 | 7 | | 3 | 7 | 1 |
| | 3% | 3% | 1% | 4% | | 3% | 5% | 2% |
| DK / NR | 8 | 8 | 4 | 4 | | 3 | 3 | 3 |
| | 2% | 2% | 2% | 2% | | 3% | 2% | 4% |
| Total | N | 395 | 212 | 184 | 82 | 103 | 145 | 65 |
| | | 100% | 100% | 100% | 100% | 100% | 100% | 100% |

BS7. You mentioned more than one of these as very important, which one of these is the most important to you?

| | Overall | Annual Family Income | | | | Education | | | | |
|---|---------|----------------------|----------------------|-----------------------|----------------|---------------|-------------|---------------------|------------------------|-----|
| | | Under \$40,000 | \$40,000 to \$70,000 | \$70,000 to \$100,000 | Over \$100,000 | < High school | High school | Some post-secondary | Univ. / Coll. graduate | |
| Environment sustainability | 48 | 9 | 10 | 11 | 8 | 1 | 9 | 11 | 27 | |
| | 12% | 15% | 11% | 13% | 10% | 5% | 14% | 15% | 12% | |
| Health impacts | 223 | 32 | 47 | 56 | 50 | 16 | 35 | 44 | 128 | |
| | 56% | 50% | 51% | 66% | 62% | 71% | 50% | 59% | 56% | |
| Keeping any harmful substances off the land | 94 | 17 | 22 | 16 | 20 | 4 | 17 | 15 | 56 | |
| | 24% | 27% | 24% | 18% | 25% | 19% | 25% | 21% | 25% | |
| Reuse of valuable nutrients | 12 | 1 | 9 | | | 0 | 0 | 4 | 7 | |
| | 3% | 1% | 9% | | | 2% | 1% | 5% | 3% | |
| Cost of treating biosolids | 10 | 1 | 3 | 3 | 2 | | 5 | | 6 | |
| | 3% | 1% | 3% | 3% | 2% | | 7% | | 3% | |
| DK / NR | 8 | 4 | 2 | | 1 | 1 | 3 | 1 | 4 | |
| | 2% | 6% | 2% | | 1% | 4% | 4% | 1% | 2% | |
| Total | N | 395 | 63 | 93 | 85 | 81 | 23 | 69 | 74 | 228 |
| | | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | |

BS2_6. Most important factor.

| | Overall | Region | Gender | | Age | | | |
|---|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | Winnipeg | Female | Male | 18 to 29 | 30 to 39 | 40 to 64 | 65 and over |
| None | 34 7% | 34 7% | 12 5% | 23 10% | 5 5% | 9 7% | 11 6% | 11 13% |
| Environment sustainability | 51 11% | 51 11% | 17 7% | 34 14% | 15 15% | 12 9% | 12 7% | 12 14% |
| Health impacts | 241 50% | 241 50% | 140 58% | 101 42% | 49 47% | 71 57% | 85 51% | 36 43% |
| Keeping any harmful substances off the land | 113 24% | 113 24% | 62 25% | 52 22% | 30 29% | 23 18% | 45 27% | 15 19% |
| Reuse of valuable nutrients | 16 3% | 16 3% | 4 2% | 12 5% | 2 2% | 6 5% | 4 2% | 4 5% |
| Cost of treating biosolids | 16 3% | 16 3% | 4 2% | 12 5% | 2 2% | 3 2% | 8 5% | 3 4% |
| Don't know | 8 2% | 8 2% | 4 2% | 4 2% | | 3 2% | 3 2% | 3 3% |
| Total | N 479 100% | 479 100% | 242 100% | 237 100% | 104 100% | 125 100% | 167 100% | 83 100% |

BS2_6. Most important factor.

| | Overall | Annual Family Income | | | | Education | | | |
|---|------------------|----------------------|----------------------|-----------------------|----------------|---------------|-------------|---------------------|------------------------|
| | | Under \$40,000 | \$40,000 to \$70,000 | \$70,000 to \$100,000 | Over \$100,000 | < High school | High school | Some post-secondary | Univ. / Coll. graduate |
| None | 34 7% | 8 10% | 6 6% | 8 7% | 4 4% | 2 6% | 4 5% | 7 7% | 19 7% |
| Environment sustainability | 51 11% | 9 13% | 12 10% | 11 11% | 8 8% | 2 6% | 11 13% | 11 12% | 28 10% |
| Health impacts | 241 50% | 32 42% | 51 45% | 61 60% | 58 58% | 16 62% | 35 42% | 44 48% | 145 53% |
| Keeping any harmful substances off the land | 113 24% | 21 28% | 28 25% | 19 19% | 22 22% | 5 18% | 25 30% | 21 23% | 63 23% |
| Reuse of valuable nutrients | 16 3% | 1 1% | 9 8% | 1 1% | 2 2% | 0 2% | 0 1% | 6 7% | 9 3% |
| Cost of treating biosolids | 16 3% | 1 1% | 4 4% | 3 3% | 5 5% | 1 2% | 5 6% | 3 3% | 7 2% |
| Don't know | 8 2% | 4 5% | 2 2% | | 1 1% | 1 3% | 3 3% | 1 1% | 4 1% |
| Total | N 479 100% | 75 100% | 113 100% | 103 100% | 101 100% | 27 100% | 83 100% | 92 100% | 274 100% |

Appendix D – One-Ways (Weighted)

BS1. Generally, would you say you support/oppose the Biosolids Master Plan?

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|-----------------------|-----------|---------|---------------|--------------------|
| Valid Strongly oppose | 48 | 10.1 | 10.1 | 10.1 |
| Somewhat oppose | 62 | 12.9 | 12.9 | 22.9 |
| Somewhat support | 239 | 49.8 | 49.8 | 72.7 |
| Strongly support | 96 | 20.0 | 20.0 | 92.8 |
| DK / NR | 35 | 7.2 | 7.2 | 100.0 |
| Total | 479 | 100.0 | 100.0 | |

Statistics

| | BS2. How important is environmental sustainability? | BS3. How important is health impacts? | BS4. How important is keeping any harmful substances off the land? | BS5. How important is reuse of valuable nutrients? | BS6. How important is cost of treating biosolids? |
|----------------|---|---------------------------------------|--|--|---|
| N Valid | 468 | 471 | 471 | 466 | 465 |
| Missing | 11 | 8 | 8 | 13 | 14 |
| Mean | 4.54 | 4.71 | 4.63 | 4.06 | 3.78 |
| Median | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 |
| Std. Deviation | .795 | .748 | .823 | 1.087 | 1.121 |
| Minimum | 1 | 1 | 1 | 1 | 1 |
| Maximum | 5 | 5 | 5 | 5 | 5 |

BS2. How important is environmental sustainability?

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|--------------------------------|-----------|---------|---------------|--------------------|
| Valid 1 - Not at all important | 5 | 1.1 | 1.1 | 1.1 |
| 2 | 5 | 1.0 | 1.0 | 2.1 |
| 3 | 44 | 9.2 | 9.2 | 11.3 |
| 4 | 90 | 18.8 | 18.8 | 30.2 |
| 5 - Very important | 323 | 67.4 | 67.4 | 97.6 |
| DK / NR | 11 | 2.4 | 2.4 | 100.0 |
| Total | 479 | 100.0 | 100.0 | |

BS3. How important is health impacts?

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|--------------------------------|-----------|---------|---------------|--------------------|
| Valid 1 - Not at all important | 9 | 1.9 | 1.9 | 1.9 |
| 2 | 5 | 1.0 | 1.0 | 2.9 |
| 3 | 14 | 3.0 | 3.0 | 5.9 |
| 4 | 55 | 11.4 | 11.4 | 17.3 |
| 5 - Very important | 388 | 81.0 | 81.0 | 98.3 |
| DK / NR | 8 | 1.7 | 1.7 | 100.0 |
| Total | 479 | 100.0 | 100.0 | |

BS4. How important is keeping any harmful substances off the land?

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|--------------------------------|-----------|---------|---------------|--------------------|
| Valid 1 - Not at all important | 8 | 1.7 | 1.7 | 1.7 |
| 2 | 9 | 1.9 | 1.9 | 3.6 |
| 3 | 28 | 5.9 | 5.9 | 9.5 |
| 4 | 59 | 12.3 | 12.3 | 21.7 |
| 5 - Very important | 367 | 76.7 | 76.7 | 98.4 |
| DK / NR | 8 | 1.6 | 1.6 | 100.0 |
| Total | 479 | 100.0 | 100.0 | |

BS5. How important is reuse of valuable nutrients?

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|--------------------------------|-----------|---------|---------------|--------------------|
| Valid 1 - Not at all important | 19 | 3.9 | 3.9 | 3.9 |
| 2 | 21 | 4.4 | 4.4 | 8.3 |
| 3 | 86 | 17.9 | 17.9 | 26.2 |
| 4 | 128 | 26.7 | 26.7 | 53.0 |
| 5 - Very important | 212 | 44.2 | 44.2 | 97.2 |
| DK / NR | 13 | 2.8 | 2.8 | 100.0 |
| Total | 479 | 100.0 | 100.0 | |

BS6. How important is cost of treating biosolids?

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|--------------------------------|-----------|---------|---------------|--------------------|
| Valid 1 - Not at all important | 21 | 4.4 | 4.4 | 4.4 |
| 2 | 30 | 6.3 | 6.3 | 10.7 |
| 3 | 136 | 28.5 | 28.5 | 39.1 |
| 4 | 118 | 24.7 | 24.7 | 63.9 |
| 5 - Very important | 159 | 33.2 | 33.2 | 97.0 |
| DK / NR | 14 | 3.0 | 3.0 | 100.0 |
| Total | 479 | 100.0 | 100.0 | |

Region

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|----------------|-----------|---------|---------------|--------------------|
| Valid Winnipeg | 479 | 100.0 | 100.0 | 100.0 |

Statistics

AGE

| | | |
|----------------|---------|--------|
| N | Valid | 464 |
| | Missing | 15 |
| Mean | | 45.55 |
| Median | | 41.10 |
| Std. Deviation | | 18.146 |
| Minimum | | 18 |
| Maximum | | 99 |

Age

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|----------------|-----------|---------|---------------|--------------------|
| Valid 18 to 29 | 104 | 21.7 | 21.7 | 21.7 |
| 30 to 39 | 125 | 26.1 | 26.1 | 47.8 |
| 40 to 64 | 167 | 34.8 | 34.8 | 82.6 |
| 65 and over | 83 | 17.4 | 17.4 | 100.0 |
| Total | 479 | 100.0 | 100.0 | |

Education

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|------------------------|-----------|---------|---------------|--------------------|
| Valid | < High school | 27 | 5.6 | 5.6 | 5.6 |
| | High school | 83 | 17.2 | 17.4 | 23.0 |
| | Some post-secondary | 92 | 19.2 | 19.4 | 42.3 |
| | Univ. / Coll. graduate | 274 | 57.3 | 57.7 | 100.0 |
| | Total | 476 | 99.3 | 100.0 | |
| Missing | DK / NR | 3 | .7 | | |
| Total | | 479 | 100.0 | | |

Annual Family Income

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------------------|-----------|---------|---------------|--------------------|
| Valid | Under \$40,000 | 75 | 15.7 | 19.2 | 19.2 |
| | \$40,000 to \$70,000 | 113 | 23.5 | 28.8 | 48.1 |
| | \$70,000 to \$100,000 | 103 | 21.4 | 26.2 | 74.3 |
| | Over \$100,000 | 101 | 21.0 | 25.7 | 100.0 |
| | Total | 391 | 81.7 | 100.0 | |
| Missing | DK / NR | 88 | 18.3 | | |
| Total | | 479 | 100.0 | | |

Gender

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|--------|-----------|---------|---------------|--------------------|
| Valid | Female | 242 | 50.5 | 50.5 | 50.5 |
| | Male | 237 | 49.5 | 49.5 | 100.0 |
| | Total | 479 | 100.0 | 100.0 | |

Appendix E – One-Ways (Unweighted)

BS1. Generally, would you say you support/oppose the Biosolids Master Plan?

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|-----------------------|-----------|---------|---------------|--------------------|
| Valid Strongly oppose | 57 | 11.9 | 11.9 | 11.9 |
| Somewhat oppose | 59 | 12.3 | 12.3 | 24.2 |
| Somewhat support | 228 | 47.6 | 47.6 | 71.8 |
| Strongly support | 100 | 20.9 | 20.9 | 92.7 |
| DK / NR | 35 | 7.3 | 7.3 | 100.0 |
| Total | 479 | 100.0 | 100.0 | |

Statistics

| | BS2. How important is environmental sustainability? | BS3. How important is health impacts? | BS4. How important is keeping any harmful substances off the land? | BS5. How important is reuse of valuable nutrients? | BS6. How important is cost of treating biosolids? |
|----------------|---|---------------------------------------|--|--|---|
| N Valid | 459 | 466 | 466 | 456 | 455 |
| Missing | 20 | 13 | 13 | 23 | 24 |
| Mean | 4.55 | 4.72 | 4.65 | 4.09 | 3.84 |
| Median | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 |
| Std. Deviation | .822 | .736 | .814 | 1.111 | 1.151 |
| Minimum | 1 | 1 | 1 | 1 | 1 |
| Maximum | 5 | 5 | 5 | 5 | 5 |

BS2. How important is environmental sustainability?

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|--------------------------------|-----------|---------|---------------|--------------------|
| Valid 1 - Not at all important | 6 | 1.3 | 1.3 | 1.3 |
| 2 | 7 | 1.5 | 1.5 | 2.7 |
| 3 | 41 | 8.6 | 8.6 | 11.3 |
| 4 | 79 | 16.5 | 16.5 | 27.8 |
| 5 - Very important | 326 | 68.1 | 68.1 | 95.8 |
| DK / NR | 20 | 4.2 | 4.2 | 100.0 |
| Total | 479 | 100.0 | 100.0 | |

BS3. How important is health impacts?

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|--------------------------------|-----------|---------|---------------|--------------------|
| Valid 1 - Not at all important | 7 | 1.5 | 1.5 | 1.5 |
| 2 | 7 | 1.5 | 1.5 | 2.9 |
| 3 | 16 | 3.3 | 3.3 | 6.3 |
| 4 | 49 | 10.2 | 10.2 | 16.5 |
| 5 - Very important | 387 | 80.8 | 80.8 | 97.3 |
| DK / NR | 13 | 2.7 | 2.7 | 100.0 |
| Total | 479 | 100.0 | 100.0 | |

BS4. How important is keeping any harmful substances off the land?

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|--------------------------------|-----------|---------|---------------|--------------------|
| Valid 1 - Not at all important | 8 | 1.7 | 1.7 | 1.7 |
| 2 | 8 | 1.7 | 1.7 | 3.3 |
| 3 | 29 | 6.1 | 6.1 | 9.4 |
| 4 | 49 | 10.2 | 10.2 | 19.6 |
| 5 - Very important | 372 | 77.7 | 77.7 | 97.3 |
| DK / NR | 13 | 2.7 | 2.7 | 100.0 |
| Total | 479 | 100.0 | 100.0 | |

BS5. How important is reuse of valuable nutrients?

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|--------------------------------|-----------|---------|---------------|--------------------|
| Valid 1 - Not at all important | 22 | 4.6 | 4.6 | 4.6 |
| 2 | 18 | 3.8 | 3.8 | 8.4 |
| 3 | 77 | 16.1 | 16.1 | 24.4 |
| 4 | 121 | 25.3 | 25.3 | 49.7 |
| 5 - Very important | 218 | 45.5 | 45.5 | 95.2 |
| DK / NR | 23 | 4.8 | 4.8 | 100.0 |
| Total | 479 | 100.0 | 100.0 | |

BS6. How important is cost of treating biosolids?

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|--------------------------------|-----------|---------|---------------|--------------------|
| Valid 1 - Not at all important | 23 | 4.8 | 4.8 | 4.8 |
| 2 | 27 | 5.6 | 5.6 | 10.4 |
| 3 | 123 | 25.7 | 25.7 | 36.1 |
| 4 | 107 | 22.3 | 22.3 | 58.5 |
| 5 - Very important | 175 | 36.5 | 36.5 | 95.0 |
| DK / NR | 24 | 5.0 | 5.0 | 100.0 |
| Total | 479 | 100.0 | 100.0 | |

Region

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|----------------|-----------|---------|---------------|--------------------|
| Valid Winnipeg | 479 | 100.0 | 100.0 | 100.0 |

Unweighted Winnipeg Frequency Tables

Statistics

AGE

| | | |
|----------------|---------|--------|
| N | Valid | 457 |
| | Missing | 22 |
| Mean | | 55.18 |
| Median | | 58.00 |
| Std. Deviation | | 17.443 |
| Minimum | | 18 |
| Maximum | | 99 |

Age

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|----------------|-----------|---------|---------------|--------------------|
| Valid 18 to 29 | 51 | 10.6 | 10.6 | 10.6 |
| 30 to 39 | 47 | 9.8 | 9.8 | 20.5 |
| 40 to 64 | 229 | 47.8 | 47.8 | 68.3 |
| 65 and over | 152 | 31.7 | 31.7 | 100.0 |
| Total | 479 | 100.0 | 100.0 | |

Education

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|------------------------|-----------|---------|---------------|--------------------|
| Valid < High school | 40 | 8.4 | 8.4 | 8.4 |
| High school | 90 | 18.8 | 19.0 | 27.4 |
| Some post-secondary | 76 | 15.9 | 16.0 | 43.5 |
| Univ. / Coll. graduate | 268 | 55.9 | 56.5 | 100.0 |
| Total | 474 | 99.0 | 100.0 | |
| Missing DK / NR | 5 | 1.0 | | |
| Total | 479 | 100.0 | | |

Annual Family Income

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------------------|-----------|---------|---------------|--------------------|
| Valid | Under \$40,000 | 103 | 21.5 | 27.2 | 27.2 |
| | \$40,000 to \$70,000 | 115 | 24.0 | 30.4 | 57.7 |
| | \$70,000 to \$100,000 | 72 | 15.0 | 19.0 | 76.7 |
| | Over \$100,000 | 88 | 18.4 | 23.3 | 100.0 |
| | Total | 378 | 78.9 | 100.0 | |
| Missing | DK / NR | 101 | 21.1 | | |
| Total | | 479 | 100.0 | | |

Gender

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|--------|-----------|---------|---------------|--------------------|
| Valid | Female | 285 | 59.5 | 59.5 | 59.5 |
| | Male | 194 | 40.5 | 40.5 | 100.0 |
| | Total | 479 | 100.0 | 100.0 | |