

ANZBP COMMUNITY AWARENESS AND ATTITUDES TOWARDS BIOSOLIDS

2010 **AFFECTED COMMUNITY** SURVEY

Introduction:

Hello my name is and I'm calling from a company called xxxx. We specialise in conducting community market research surveys. We are currently conducting a national survey to record the attitudes and opinions of people to their community environment. The survey is short and will only take 10-12 minutes of your time to complete. Your answers will remain strictly confidential and will be combined with answers other people give across the country. If respondent asks how you got my number say - Your telephone number was randomly selected from the electronic white pages. Is now a convenient time or should I call back?

- Yes CONTINUE
- Appointment RECORD DAY AND TIME
- Refusal CLOSE AND THANK

Screening Questions:

S1 Before we start, can I just confirm that you are 18 years and over and live permanently at this address? If yes continue, if no ask, does anyone else 18 years and over live permanently at this address. If yes ask to speak to them.

S2 Could you please tell me your postal code? (RECORD BELOW)

USE POSTAL CODE TO CONFIRM WHETHER RESPONDENT LIVES IN AFFECTED OR NON-AFFECTED COMMUNITY AND APPLY THE RELEVANT QUESTIONNAIRE

RECORD SEX OF RESPONDENT

- Male
- Female
- Not answered

Survey Questions:

Q1 How important is the preservation of the natural environment in your local community? Would you say that it is extremely important, fairly important, fairly unimportant or not at all important?

- Extremely important
- Fairly important
- Fairly unimportant
- Not at all important
- Don't know

Q2 What activities do you/your household currently undertake that help protect the natural environment? Select as many as applicable. (DO NOT READ OUT. RECORD RESPONSES. MULTIPLE MENTIONS POSSIBLE)

- Use energy saving globes
- Use water saving shower-heads
- Take shorter showers
- Use bathwater/washing machine water in the garden
- Installed rainwater tanks
- Installed solar heating
- Installed ceiling/roof insulation
- Compost food scraps/wastage
- Started a worm farm
- Recycle plastic/paper
- Participate in clean-up Australia Day
- Volunteer in local bush care
- Other

Q3 Do you or anyone in your household, do any gardening or farming?

- Yes GO TO Q4
- No GO TO Q5
- Don't Know GO TO Q5

Q4 What type of fertiliser, if any, do you use on your lawn/garden/farm?

Select as many as applicable (DO NOT READ OUT. RECORD RESPONSES. MULTIPLE MENTIONS POSSIBLE)

- Composted own vegetable/garden waste
- Purchase of commercial compost
- Animal manure
- Chemical
- Biosolids
- Biosolids mixed with other composts
- Other
- None / Don't use
- Don't know

Q5 Are you aware of any sewage treatment plants located in your community?

- Yes aware
- Not aware

Q6 What do you see as the primary role(s) of sewage treatment plants situated in local communities? (READ OUT. SELECT AS MANY THAT APPLY)

- Treat the wastewater
- Treat wastewater for recycling
- Treat the sewage before pumping it into the ocean/river
- Treat the sewage before trucking it off for additional processing
- Treat the sewage to produce useful by-products
- Other mentions
- Don't Know

Q7 Have you ever heard of the term BIOSOLIDS?

- Yes ASK Q8
- No GO TO Q9
- Don't Know GO TO Q9

Q8 How would you define the term BIOSOLIDS? RECORD VERBATIM RESPONSE

Q9 *Biosolids are a by-product of sewage treatment. They contain nutrients and can be applied to agricultural land to grow cereals, grains, and other crops. They can also be blended with composts for use on domestic gardens, used for landscaping or as fuel for power generation. Biosolids may be quite liquid, or may be dried to produce a soil-like material. Following appropriate treatment, they are very safe; the risk of disease or environmental contamination is extremely low.*

How do you feel about the use of biosolids for these purposes? RECORD RESPONSE

Q10 Supposing your next door neighbour had spread biosolids on their garden or farm as fertiliser. Which ONE of the following statements BEST describes your attitude?

- Think its great ... recycling useful products is a good idea
- It's probably OK, otherwise the government wouldn't let them do it
- I would prefer they not do it because of safety and bad odour
- I would ask them to stop, as it conflicts with my cultural beliefs
- I would ask them to stop, it's too yucky
- I'd consider moving my family away, it's a danger to my family's health
- I would think that it is none of my business, it's their land, not mine
- Don't know

Q11 Supposing the fresh vegetables and fruit that you had purchased from a supermarket/fresh food market had been grown on land to which biosolids had been applied. Which ONE of the following statements BEST describes your attitude?

- Think its great ... recycling useful products is a good idea
- It's probably OK, otherwise the government wouldn't let them do it
- I would prefer them not do it because it doesn't seem right
- I would ask them to stop stocking food grown in such a manner as it conflicts with my cultural beliefs
- I would ask them to stop stocking food grown in such a manner as it's too yucky
- I would refuse to buy food grown in such a manner as it is a danger to my family's health
- Don't know

Q12 Supposing the fresh vegetables and fruit that you had purchased from a supermarket/fresh food market had been grown on land to which untreated cow or chicken manure had been applied. Which ONE of the following statements BEST describes your attitude?

- Think its great ... recycling useful products is a good idea
- It's probably OK, as farmers have been doing it for years
- I would prefer they not do it because it doesn't seem right
- I would ask them to stop stocking food grown in such a manner as it conflicts with my cultural beliefs
- I would ask them to stop stocking food grown in such a manner as it's too yucky
- I would refuse to buy food grown in such a manner as it is a danger to my family's health
- Don't know

Q13 How likely would you be to use biosolids or biosolids products in your own garden/farm?

- Very likely
- Somewhat likely
- Not very likely
- Not at all likely
- Don't know

Q14 What specifically, would you need to know in order to be more comfortable about biosolids being used in your local community? RECORD VERBATIM RESPONSE

Q15 Would it change your level of concern to know that biosolids applied in your local community were strictly controlled according to quality and safety standards? Does this increase or decrease your level of concern about biosolids?

- Greatly decreases my concern
- Somewhat decreases my concern
- No change in concern
- Somewhat increases my concern
- Greatly increases my concern
- Don't know

Q16 Would it change your level of concern if your neighbour or the sewage treatment plant manager contacted you in advance and talked with you about the processing or use of biosolids? Does this increase or decrease your level of concern about biosolids?

- Greatly decreases my concern
- Somewhat decreases my concern
- No change in concern
- Somewhat increases my concern
- Greatly increases my concern
- Don't know

- Q17 Most scientists say there is negligible risk associated with biosolids. Does this increase or decrease your level of concern about biosolids?
- Greatly decreases my concern
 - Somewhat decreases my concern
 - No change in concern
 - Somewhat increases my concern
 - Greatly increases my concern
 - Don't know

- Q18 Who do you think should be responsible for setting safety and quality policies and standards for biosolids?
- Federal government regulators
 - State government regulators
 - Local council
 - CSIRO/Crown Research Institutes (NZ)
 - Other (Specify).....

Q19 To what extent do you agree or disagree that the following applications of biosolids are appropriate?

Strongly Agree	Agree Somewhat	Neither Agree nor Disagree	Disagree Somewhat	Strongly Disagree	Don't Know
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- 1) As a blended fertiliser for gardens
- 2) As a fertiliser for forest soils to grow trees
- 3) As a fertiliser for soils in which non food products eg cotton are grown
- 4) To improve soil and encourage plant growth on land damaged by mining
- 5) For commercial landscaping
- 6) As a fill for road construction

Q20 Thinking about food grown on land to which biosolids had been applied, to what degree would you be prepared to buy the following types of food grown in this manner?

Very likely to buy	Fairly likely to buy	Neither likely nor unlikely to buy	Fairly unlikely to buy	Very unlikely to buy	Don't know
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Grain foods/products

Dairy/meat products (where cows/cattle/sheep have grazed on land treated with biosolids)

Fresh produce like fruit and veg

Beer produced from barley grown with the aid of biosolids

Q21 Who do you think is currently responsible to ensure that any food/food products grown on land to which biosolids had been applied meets current health and safety regulations?

- Supermarket chains
- Food wholesalers
- Fresh growers associations
- Independent auditors
- Federal government regulators
- State regulators

Q22 To what extent do you agree or disagree with the following statements?

	Strongly Agree	Agree Somewhat	Neither Agree nor Disagree	Disagree Somewhat	Strongly Disagree	Don't Know
Biosolids						
1)are an effective way of using by-products						
2)used on land recycles nutrients and organic matter back into the soil						
3)prevents soil erosion and improves water quality						
4)are an economical source of fertiliser for gardens and farms						
5) reduces the need to dig-up naturally occurring soils for fill						

Q23 And to what extent do you agree or disagree with these statements?

	Strongly Agree	Agree Somewhat	Neither Agree nor Disagree	Disagree Somewhat	Strongly Disagree	Don't Know
1) Not enough is known about biosolids						
2) Production and/or use of biosolids causes bad odours						
3) Application of biosolids to land causes land and/or water contamination						
4) That there are safety concerns with the road transportation of biosolids						
5) Biosolids can affect human health and safety						
6) That there are inadequate regulations governing the production/application of biosolids						

Q24 Imagine there was a wastewater treatment plant in your local community producing biosolids. To what degree might you be concerned with.....?

Extremely	Fairly	Fairly	Not at all	Don't
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	Concerned	Concerned	Unconcerned	concerned	Know
Bad odour					
Traffic noise and congestion from trucks transporting biosolids					
Proximity to the sewage treatment plant					
Yuck factor					
Effect on the environment					
Effect on property prices					
Impact on my family's health					

Q25 Imagine biosolids were being applied to land in your local area by farmers or your local council. To what degree might you be concerned with.....?

	Extremely Concerned	Fairly Concerned	Fairly Unconcerned	Not at all concerned	Don't Know
Bad odour					
Dust					
Traffic noise and congestion from trucks transporting biosolids					
Proximity to the place where biosolids have been applied					
Yuck factor					
Effect on the environment					
Effect on property prices					
Impact on my family's health					

Q26 Which of the following sources of information on biosolids is?

- a) The most knowledgeable?
- b) The most trustworthy?

(a)

(b)

The most knowledgeable

The most trustworthy

(select only one)

(select only one)

Federal health department

State health department

Local councils

CSIRO (Crown Research
Institutes OR Science NZ)

University researchers

Sewage and wastewater
treatment plant operators

Private companies that
sell, manage and use
biosolids

Environmental groups like
Greenpeace

Local media (eg
newspaper, radio)

Local precinct action
groups

And finally some questions about you.

Q27 Into which of the following age categories do you fall?

- 18 - 30 years
- 40's
- 50's
- 60's
- 70 years and over

Q28 What is the highest level of education that you have achieved?

- Completed school
- Diploma
- Bachelor degree
- Masters degree
- Doctorate (PhD)
- Professorship
- Other

Q29 Do you consider yourself to be currently working in, or have you been educated in a scientific field?

- Yes
- No

Q30 Are you of Aboriginal, Torres Strait Islander or Maori origin?

- Yes - Aboriginal
- Yes - Torres Strait Islander
- Yes - Maori
- No - ASK Q31

Q31 Are you and your family second or third generation from any of the following countries? If yes, please select national origin.

- UK/Irish
- Italian
- German
- Chinese
- Lebanese
- Greek
- Netherlander
- Other

Q32 Does your occupation include farming? If yes – which of the following apply to you? Select as many that apply.

- Grow grain crops like wheat/barley
- Grow fruit and vegetables
- Dairy farming
- Cattle farming
- Sheep farming

You have now answered all the questions.

Thank you for your time in completing this survey.

ANZBP COMMUNITY AWARENESS AND ATTITUDES TOWARDS BIOSOLIDS

2010 GENERAL COMMUNITY SURVEY

Introduction:

Hello my name is and I'm calling from a company called xxxx. We specialise in conducting community market research surveys. We are currently conducting a national survey to record the attitudes and opinions of people to their community environment. The survey is short and will only take about 6 minutes of your time to complete. Your answers will remain strictly confidential and will be combined with answers other people give across the country. If respondent asks how you got my number say - Your telephone number was randomly selected from the electronic white pages. Is now a convenient time or should I call back?

- Yes CONTINUE
- Appointment RECORD DAY AND TIME
- Refusal CLOSE AND THANK

Screening Questions:

S1 Before we start, can I just confirm that you are 18 years and over and live permanently at this address? If yes continue, if no ask, does anyone else 18 years and over live permanently at this address. If yes ask to speak to them.

S2 Could you please tell me your postal code? (RECORD BELOW)

USE POSTAL CODE TO CONFIRM WHETHER RESPONDENT LIVES IN AFFECTED OR NON-AFFECTED COMMUNITY AND APPLY THE RELEVANT QUESTIONNAIRE

RECORD SEX OF RESPONDENT

- Male
- Female
- Not answered

Survey Questions:

Note: (Q) refers to Q number of Affected Community Survey.

Q1 (Q1) How important is the preservation of the natural environment in your local community? Would you say that it is extremely important, fairly important, fairly unimportant or not at all important?

- Extremely important
- Fairly important
- Fairly unimportant
- Not at all important
- Don't know

Q2 (Q2) What activities do you/your household currently undertake that help protect the natural environment? Select as many as applicable .(DO NOT READ OUT. RECORD RESPONSES. MULTIPLE MENTIONS POSSIBLE)

- Use energy saving globes
- Use water saving shower-heads
- Take shorter showers
- Use bathwater/washing machine water in the garden
- Installed rainwater tanks
- Installed solar heating
- Installed ceiling/roof insulation
- Compost food scraps/wastage
- Started a worm farm
- Recycle plastic/paper
- Participate in clean-up Australia Day
- Volunteer in local bush care
- Other

Q3 (Q3) Do you or anyone in your household, do any gardening or farming?

- Yes GO TO Q4
- No GO TO Q5
- Don't Know GO TO Q5

Q4 (Q4) What type of fertiliser, if any, do you use on your lawn/garden/farm?

Select as many as applicable (DO NOT READ OUT. RECORD RESPONSES. MULTIPLE MENTIONS POSSIBLE)

- Composted own vegetable/garden waste
- Purchase of commercial compost
- Animal manure
- Chemical
- Biosolids
- Biosolids mixed with other composts
- Other
- None / Don't use
- Don't know

Q5 (Q7) Have you ever heard of the term BIOSOLIDS?

- Yes ASK Q6
- No GO TO Q7
- Don't Know GO TO Q7

Q6 (Q9) *Biosolids are a by-product of sewage treatment. They contain nutrients and can be applied to agricultural land to grow cereals, grains, and other crops. They can also be blended with composts for use on domestic gardens, used for landscaping or as fuel for power generation. Biosolids may be quite liquid, or may be dried to produce a soil-like material. Following appropriate treatment, they are very safe; the risk of disease or environmental contamination is extremely low.*

How do you feel about the use of biosolids for these purposes? RECORD RESPONSE

Q7 (Q10) Supposing your next door neighbour had spread biosolids on their garden or farm as fertiliser. Which ONE of the following statements BEST describes your attitude?

- Think its great ... recycling useful products is a good idea
- It's probably OK, otherwise the government wouldn't let them do it
- I would prefer they not do it because of safety and bad odour
- I would ask them to stop, as it conflicts with my cultural beliefs
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Q8 (Q11) Supposing the fresh vegetables and fruit that you had purchased from a supermarket/fresh food market had been grown on land to which biosolids had been applied. Which ONE of the following statements BEST describes your attitude?

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Q9 (Q12) Supposing the fresh vegetables and fruit that you had purchased from a supermarket/fresh food market had been grown on land to which untreated cow or chicken manure had been applied. Which ONE of the following statements BEST describes your attitude?

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- I would refuse to buy food grown in such a manner as it is a danger to my family's health
- Don't know

Q10 (Q13) How likely would you be to use biosolids or biosolids products in your own garden/farm?

- Very likely
- Somewhat likely
- Not very likely
- Not at all likely
- Don't know

Q11 (Q17) Most scientists say there is negligible risk associated with biosolids. Does this increase or decrease your level of concern about biosolids?

- Greatly decreases my concern
- Somewhat decreases my concern
- No change in concern
- Somewhat increases my concern
- Greatly increases my concern
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Q12 (Q18) Who do you think should be responsible for setting safety and quality policies and standards for biosolids?

- Federal government regulators
- State government regulators
- Local council
- CSIRO/Crown Research Institutes (NZ)
- Other (Specify).....

Q13 (Q19) To what extent do you agree or disagree that the following applications of biosolids are appropriate?

Strongly Agree	Agree Somewhat	Neither Agree nor Disagree	Disagree Somewhat	Strongly Disagree	Don't Know
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- 6) As a fill for road construction

Q14 (Q20) Thinking about food grown on land to which biosolids had been applied, to what degree would you be prepared to buy the following types of food grown in this manner?

Very likely to buy	Fairly likely to buy	Neither likely nor unlikely to buy	Fairly unlikely to buy	Very unlikely to buy	Don't know
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Grain foods/products

Dairy/meat products (where cows/cattle/sheep have grazed on land treated with biosolids)

Fresh produce like fruit and veg

Beer produced from barley grown with the aid of biosolids

Q15 (Q24) Imagine there was a wastewater treatment plant in your local community producing biosolids. To what degree might you be concerned with.....?

Extremely Concerned	Fairly Concerned	Fairly Unconcerned	Not at all concerned	Don't Know
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Bad odour

Traffic noise and
congestion from trucks
transporting biosolids

Proximity to the sewage
treatment plant

Yuck factor

Effect on the environment

Effect on property prices

Impact on my family's
health

Q16 (Q25) Imagine biosolids were being applied to land in your local area by farmers or your local council. To what degree might you be concerned with.....?

Extremely Concerned	Fairly Concerned	Fairly Unconcerned	Not at all concerned	Don't Know
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Bad odour

Dust

Traffic noise and
congestion from
trucks transporting
biosolids

Proximity to the place
where biosolids have
been applied

Yuck factor

Effect on the
environment

Effect on property
prices

Impact on my family's
health

And finally some questions about you.

Q17 (Q27) Into which of the following age categories do you fall?

- 18 - 30 years
- 40's
- 50's
- 60's
- 70 years and over

Q18 (Q28) What is the highest level of education that you have achieved?

- Completed school
- Diploma
- Bachelor degree
- Masters degree
- Doctorate (PhD)
- Professorship
- Other

Q19 (Q29) Do you consider yourself to be currently working in, or have you been educated in a scientific field?

- Yes
- No

Q20 (Q30) Are you of Aboriginal, Torres Strait Islander or Maori origin?

- Yes - Aboriginal
- Yes - Torres Strait Islander
- Yes - Maori
- No - ASK Q35

Q21 (Q31) Are you and your family second or third generation from any of the following countries? If yes, please select national origin.

- UK/Irish
- Italian
- German
- Chinese
- Lebanese
- Greek
- Netherlander
- Other

Q22 (Q32) Does your occupation include farming? If yes – which of the following apply to you? Select as many that apply.

- Grow grain crops like wheat/barley
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You have now answered all the questions.

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