

## ***Chapter 4***

### ***SOCIAL SURVEY***

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*House-to-house Survey*

## Questionnaire – General/ Informal Settlers

No. \_\_\_\_\_ Date: \_\_\_\_\_ 2004 Surveyed by: \_\_\_\_\_

1. **City:** 1. Manila 2. Pasay 3. Makati 4. Caloocan 5. Quezon 6. Taguig
2. **Barangay:** \_\_\_\_\_
3. **Along/On** \_\_\_\_\_ Estero, \_\_\_\_\_ meters to \_\_\_\_\_
4. **(Name of Interviewee):** \_\_\_\_\_
5. **Sex:** 1. Female 2. Male
6. **Age:** \_\_\_\_\_ yrs.
7. **Marital Status:** 1. Married 2. Unmarried 3. Widow 4. Widower 5. Common-law-marriage
8. **Ethnicity** (language of daily use): 1. 2. 3. 4.  
5. Other (specify) \_\_\_\_\_
9. **Religion:** 1. Catholic 2. Protestant 3. Islam 4. Other (specify): \_\_\_\_\_
10. **Present Occupation:** \_\_\_\_\_

### I. FAMILY

11. **Number of Family Member** – the total number of immediate family members

Husband & Wife and their children: \_\_\_\_\_ persons

12. **Other than Immediate Family Members:** If any other people live with your family:

12-1 **How many other people:** \_\_\_\_\_ Persons

12-2 **Who are they?** Specify.

1. My brother(s) 2. Sister(s) 3. Grandfather 4. Grandmother 5. Nephew/Niece  
6. Grandchildren 7. Other (specify) \_\_\_\_\_

13. **Number of your children:** \_\_\_\_\_ children live with me.

13-1 **Male:**

1. Less than 3 years	_____ persons	4. 14~18 years old	_____ persons
2. 4~ 6 years old	_____ persons	5. Over 18 years old	_____ persons
3. 7~13 years old	_____ persons		

13-2 **Female:**

1. Less than 3 years	_____ persons	4. 14~18 years old	_____ persons
2. 4~ 6 years old	_____ persons	5. Over 18 years old	_____ persons
3. 7~13 years old	_____ persons		

### II. ON EDUCATION

- 14 **Husband** – What is the level of education of husband? He finished \_\_\_\_\_ years of education

14-1 **That is, the last school he finished is:**

1. Elementary school 2. Secondary school 3. High school 4. College 5. Higher

- 15 **Wife** – What is the level of education of the wife? She finished \_\_\_\_\_ years of education

15-1 **That is, the last school she finished is:**

1. Elementary school 2. Secondary school 3. High school 4. College 5. Higher

## 16. Education of the Children

1. How many children in elementary school? \_\_\_\_ children
2. How many children in secondary school? \_\_\_\_ children
3. How many children in high school? \_\_\_\_ children
4. How many children in college/university? \_\_\_\_ children

## III. OCCUPATION

### 17. Present occupation

- 17-1 For **how many years** have you been holding the present occupation? \_\_\_\_ years
- 17-2 Approximately how much are you **earning** daily, weekly, monthly? \_\_\_\_ pesos

### 18. Present occupation of your spouse: He/she works as \_\_\_\_\_

- 18-1 **How long** has he/she been holding the present occupation? \_\_\_\_ years
- 18-2 What is his/her approximate daily/weekly/monthly **income**? \_\_\_\_ pesos

## IV. LIVING CONDITION

### 21. Housing

- 21-1 How long have you been living in this house? \_\_\_\_ years
- 21-2 Originally came from (home village/town): \_\_\_\_\_
- 21-3 Is your land (house) registered?
1. Yes
  2. No
- 21-4 The house you live now is:
1. Own house
  2. Rented
  3. Relative's/friend's house
  4. Official residence
  5. Informal settler
  6. Other (specify) \_\_\_\_\_
- 21-5 If you are paying a rent for the house, how much are you paying monthly/weekly/yearly  
\_\_\_\_\_ pesos
- 21-6 **Type** of the dwelling
1. Individual house
  2. Collective house/apartment type
- 21-7 **Size** of the house:
1. 1 room with kitchen and bath/without them
  2. 2 rooms with kitchen and bath/without them
  3. 3 rooms with kitchen and bath
  4. 4 rooms with kitchen and bath
  5. More than 5 rooms
- 21-8 Approximate total **floor space**:
1. Less than 10 m<sup>2</sup>
  2. About 10~20 m<sup>2</sup>
  3. About 20~30 m<sup>2</sup>
  4. About 30~40 m<sup>2</sup>
  5. 40~50 m<sup>2</sup>
  6. More than 50~100 m<sup>2</sup>
  7. More than 100 m<sup>2</sup>
- 21-9 Approximate total **land area**:
1. Less than 10 m<sup>2</sup>
  2. About 10~30 m<sup>2</sup>
  3. About 30~50 m<sup>2</sup>
  4. About 50~100 m<sup>2</sup>
  5. 100~200 m<sup>2</sup>
  6. More than 200~500 m<sup>2</sup>
  7. More than 500 m<sup>2</sup>
- The house is built with:**
- 21-10 **Roof** is 1.slate, 2.zinc, 3.tile, 4.thatch, 5.other-specify \_\_\_\_\_
- 21-11 **Inner wall** is: 1.wood, 2.mortar, 3.veneer, 4.other-specify \_\_\_\_\_

**21-12 Outer wall** is: 1.wood, 2. mortar, 3.brick, 4.dried mud, 5.other-specify \_\_\_\_\_

**21-13 Floor:** 1. wood, 2.cement, 3.tile/plastic-tile, 4.mud, 5.other-specify \_\_\_\_\_

**21-14** The house is surrounded by: 1. No fence 2. Fence 3. Wall 4. Hedge

## **22. Incomes and Living Expenses**

**22-1** Who is the main **breadwinner** of the family?

1. Husband 2. Wife 3. Both 4. Children 5. Other (specify) \_\_\_\_\_

**22-2** Is any of **your child (children)** working ? 1. Yes 2. No (**Skip to Question 22-4**)

**22-3** Those who answered “**Yes**”, what kind of work does she/he or do they have and how much does she/he or they earn?

1. Job \_\_\_\_\_ 2. Earn \_\_\_\_\_ pesos/month/week/day  
3. Job \_\_\_\_\_ 4. Earn \_\_\_\_\_ pesos/month/week/day

**22-4** What is an **average** total annual/monthly/weekly **income** of the whole family?

About \_\_\_\_\_ pesos

**22-5** Would the income **satisfy** the needs of your family? 1. Yes (**Skip to Question 23**) 2. No

**22-6** Those who answered “**2. No**”, what would you do to meet the necessary expenses?

1. Borrow from a relative 2. Borrow from a friend 3. Borrow from a bank or money lender  
4. Use from savings 5. Other (specify) \_\_\_\_\_

**23.** Could you give us an **approximate total value** of the property you own? That is, you include all your belongings such as a refrigerator, TV, clothes, and furniture, etc. The sum is roughly \_\_\_\_\_ pesos

## **V. AVAILABILITY OF SOCIAL INFRASTRUCTURE AND SERVICES**

**24-1 The house is provided with: (Multiple answers)**

1. Electricity 2. Drinking water (inside) 3. Drinking water (outside)  
4. Gas 5. Drainage 6. Telephone 7. Toilet

**24-2 Are the following facilities easily available? (Multiple answers)**

1. Schools (elementary, secondary, high school) 2. Church 3. Sports facilities/grounds  
4. Clinic/hospital 5. Market 6. Cultural facilities (library/entertainment hall)

**24-3 Any transportation easily available? (Multiple answers possible)**

1. Public buses 2. Taxi 3. Jeepney 4. Tricycle 5. Train/tram car 6. Have own car

## **VI. EXPERIENCES OF FLOOD AND FLOOD DAMAGE**

### **25. Floods and Flood Damages**

**25-1** Have you/your family ever **suffered floods or flood damages** within the last 5 years?

1. Yes, floods and damages 2. Yes, flood but no damages  
3. No flood experience (**Skip to Question 26**)

**25-2** For those who answered “**1. yes**”, how many times did you experience the damages?

1. Once 2. Twice 3. Three times 4. Every time when a flood occurs

**25-3** What were the **damages**?

1. Human damage 2. Material damages 3. Both human and material

**25-4** For those who answered “**1. Human damage**” and “**3. Both**”:

1. Who suffered \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
2. How \_\_\_\_\_, \_\_\_\_\_

**25-5** For those who answered “**2. and 3.**”, what were the damages ? (**Multiple answers possible**)

1. House was inundated (partial/total) 2. Furniture (including a frig. TV, bed, etc.)
3. Clothes 4. Vehicle 5. Others (specify) \_\_\_\_\_, \_\_\_\_\_

**25-6** What were the **extent of damages** (how much the damage cost?)

In pesos approximately: \_\_\_\_\_ pesos

**25-7** Did you or your spouse have to **take day(s) off** from the work because of the flood?

1. Yes 2. No (**Skip to 28-10**)

**25-8** Those who took off, **how many days** you were off from the work? \_\_\_\_\_ days

**25-9** How much more time than usual was lost to reach your/your spouse’s office \_\_\_\_\_ hours

**25-10** Approximately **how much wage loss** did you suffer because of the flood? \_\_\_\_\_ pesos

**25-11** Do you or do your **children suffer** from **water-caused** disease when floods occurred?

1. Yes 2. No (**Skip to 29**)

**25-12** Those who answered “**Yes**”, what were the diseases? (**Multiple answers possible**)

1. Diarrhea 2. Dysentery 3. Cholera 4. Typhoid 5. Hepatitis 6. (Malaria)
7. Others (specify) \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

**25-13** How much did you **pay for the treatment** of the disease? \_\_\_\_\_ pesos

## **26. Reduction of flood damages**

**26-1** Have you taken any measures to prevent possible damages?

1. Yes 2. No. (**Skip to Question No.26-3**)

**26-2** For those who answered “**1. yes**”, what sort of **measures** have you taken?

1. Relocated important furniture/belongings to more secure places.
2. We, ourselves evacuated to safer places
3. Wrapped things with water-proof materials
4. Other (specify) \_\_\_\_\_

**26-3** For those who answered “**2. no**”, **why have you not** taken any measures?

1. No time for that 2. Did not care much about/thought no use
3. Thought it was O.K./no problem 4. No floods around here
5. Other (specify) \_\_\_\_\_

**26-4** You know that this is a flood-prone area. Why do you keep living here? Because:

1. The land price is cheaper here.
2. Our families have been living here for long time.
3. I like this neighbourhood.
4. All my customers live around.
5. Lot of my friends, relatives and customers live in this area.
6. Other (specify): \_\_\_\_\_

**27. Perception/understanding on the causes of floods**

**27-1** Do you think that floods can be controlled/avoided? 1. Yes 2. No

**27-2** What is (are) the **cause(s)** of the floods **you think**?

1. Too much rain
2. Because of topography
3. Esteros are too narrow/small
4. River banks are too low
5. Esteros are filled with garbage
6. It's God's will
7. Other (specify) \_\_\_\_\_

**VII. ENVIRONMENTAL SITUATION**

**28. Understanding on environmental degradation**

**28-1** Do you think that **environment** in your neighborhood is degrading recently?

1. Yes
2. No, not particularly (**Skip to Question 28-3**)

**28-2** Those who answered "**1. yes**", in what way the environment is **worsening**? (**Multiple answers possible**)

1. Our surroundings are dirty
2. Bad smell
3. Noisy
4. No green areas around
5. Frequent floods
6. A lot of flies/bugs around
7. Other (specify) \_\_\_\_\_

**28-3** Do you think that the **quality of drinking water** that you are using is good ?

1. Yes
2. No
3. Other comment \_\_\_\_\_

**28-4** What about the sewerage, is the system working well?

1. Yes
2. No
3. Sewerage
4. Other comment \_\_\_\_\_

**28-5** Could you tell us what is a favorable living environment **in your opinion**? (**Multiple answers possible**)

1. Neighborhood is clean
2. Quiet environment
3. A lot of green areas around
4. Have an easy access to various places
5. Other (specify) \_\_\_\_\_

**29 Health and Hygiene**

**29-1** Do you have a **toilet** within your house?

1. Yes
2. No
3. We use an outside/public toilet

**29-2** What **type** of toilet is it?

1. Pit hole type
2. Septic tank
3. Flush toilet
4. Other (specify) \_\_\_\_\_

**29-3** Do you or your children **wash their hands** after using toilet each time? 1. Yes 2. No



**29-4** Do you or your children wash their hands **before taking meals**? 1. Yes 2. No

## **VIII. GARBAGE AND GARBAGE COLLECTION**

### **30 Garbage and Garbage Disposal**

**30-1** Who will normally put the **garbage out** (dispose)?

1. Wife 2. Husband 3. One of the children 4. Other (specify) \_\_\_\_\_

**30-2** Where do you normally **place the garbage**? (**Multiple answers possible**)

1. Take them to a garbage station (post) 2. Put them in front of our house  
3. Dump them to wherever I want 4. Dump them into an estero  
5. Other (specify) \_\_\_\_\_

**30-3** Those who answered either “**2, 3, or 4**”, are you aware that what you are doing is giving a **negative impact** upon the neighboring environment or is incurring **one of the causes** of the floods in this area?

1. Yes, I am aware 2. No, I am not particularly aware of it

**30-4** What **type of garbage** are they? (**Multiple answers possible**)

1. Papers/paper products 2. Plastic products 3. Residues of food/vegetables  
4. Solid waste 5. Glasses/bottles 6. Others (specify) \_\_\_\_\_

**30-5** What kind of **containers** do you use for garbage? (**Multiple answers possible**)

1. Plastic bags provided by supermarkets 2. A plastic bucket (pail) 3. Paper sacks  
4. Other (specify) \_\_\_\_\_ , \_\_\_\_\_

**30-6** Can you tell approximately how much garbage you discharge per day/per week

1. One tiny plastic bag 2. One plastic bucket 3. One big shopping bag  
4. Other (specify) \_\_\_\_\_

### **31 Present Garbage Collection System**

**31-1** Is your community/neighborhood provided with garbage **collection services**?

1. Yes 2. No (**Answer 31-2, then skip to 31-7**)

**31-2** Those who answered “2. No”, then, what are you doing with your garbage? Where do you put them?

1. We dig a pit and put them in it 2. Take them to a certain dump-site  
3. Dump them to an estero 4. Dump them to a roadside  
5. Other (specify) \_\_\_\_\_

**31-3** In case the answer is “**1. Yes**”, how often the garbage is collected per week?

1. Once a week 2. Twice a week 3. Three times a week 4. Less 5. More often

**31-4** **Who are providing** the collection services?

1. Municipal government 2. Barangay 3. Private company  
4. Other (specify) \_\_\_\_\_

**31-5** Where do they pick up the garbage?

1. From each house
2. In front of your house
3. Designated post
4. Other (specify) \_\_\_\_\_

**31-6** Are there any collection services on **valuable waste for recycling** purposes; a separate collection by type?      1. Yes      2. No

**31-7** Those who answered “2. No”, do you sell the valuable waste directly to a junk dealer?

1. Yes
2. No

**31-8** Do you know that there are **rules/laws to stipulate** for separate disposal of the garbage by type? (You are **required by the law** to separate the garbage)    1. Yes    2. No

**31-7** Do you know that there are also rules/laws to stipulate the **reduction of garbage** volume? (You have to make an effort to reduce the volume of garbage)

1. Yes
2. No

## **32 Garbage Disposal**

**32-1** Have you ever **thrown garbage** in a nearby **estero or roadside**?

1. Yes, I have
2. No, never

**32-2** Those who said “**1. Yes,**” **why** did you dump the garbage to the estero or roadside?    Because;

1. There were no other place to dump; no post or station exists
2. It was too much trouble to take it to a designated place such as a post or station
3. I did not want to leave it in front of my house
4. Many people are doing so
5. Other (specify) \_\_\_\_\_

**32-3** Suppose there are some designated places, that is, a garbage post, station, or a box would you take the garbage to the post even the post is located little far from your house?

1. Yes
2. No

**32-4** Those who said “**2. No**”, **why** don't you want?    Because;

1. It's trouble some, too much trouble
2. I have no time for that
3. Other (specify) \_\_\_\_\_

**32-5** Our project has a plan to implement pilot projects for recycling valuable waste.    Are you willing to joint the project?

1. Yes, if monetary profit can be expected
2. Yes, if it will improve our life in some way
3. Yes, I will, even if it does not bring any financial gain to us
4. No, if we cannot expect any profit (monetary gain)
5. Other (specify) \_\_\_\_\_

## **33 Your Opinion on Improving the Garbage Collection System and your Living Condition**

**33-1** Do you have any **opinion or suggestion on** how to improve the present **garbage collection** system? If you have, what are they?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**33-2** Your **opinion and suggestion** on improving your **environment and living conditions**.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

## **IX. ADDITIONAL QUESTIONS FOR INFORMAL SETTLERS**

**34. Did/do you know** that it is not allowed to live here? 1. Yes 2. No

**35. Why** did you choose this place for your house? Because;

1. Our relative informed us that a house is available/our relative live here
2. Our friend/former neighbor informed us that a house is available here
3. We just happened to stay here for no particular reason
4. Our relative/friend/neighbor live nearby place
5. Our work place(s) is (are) close to
6. Other (specify) \_\_\_\_\_

**36. Are you willing to move** to other place in case your government asked you to move?

1. Yes, I (we) will have to
2. No, I (we) don't want to move
3. If the government compensate sufficiently
4. Depend on the conditions
5. Other (specify) \_\_\_\_\_

**37** What is or are the **most important conditions** that you would ask the government to satisfy in case you will have to move?

**(Multiple answers possible but prioritize the answers from the most important one)**

- \_\_\_1. The government pays reasonable amount of compensation (beforehand, after).
- \_\_\_2. Prepare a decent house (individual house/apartment) for us.
- \_\_\_3. Neighborhood is provided with solid infrastructure, such as, drinking water, sewage system, electricity, telephone, elementary and secondary schools, a clinic or hospital, a market, etc. beforehand.
- \_\_\_4. Close to our work place(s), or some employment opportunity should be available.
- \_\_\_5. Transportation, such as public bus services and/or jeepney should be available.
- \_\_\_6. A land title for the place we move to is given us (not only a promise).
- \_\_\_7. Other (specify) \_\_\_\_\_

**37-1** Are you willing to cooperate with the government even if all of the requirements that you ask the government to fulfill are not fully satisfied?

1. Yes, I (we) will cooperate.
2. No, I (we) don't cooperate unless all our requirements are met.
3. Other (specify) \_\_\_\_\_

**38** What are the **biggest difficulties or problems** that you are facing in everyday life now?  
(Prioritize the problems if put more than one)

- \_\_1. No jobs/very few job opportunities.
- \_\_2. No sufficient income to support our life.
- \_\_3. No sufficient social services are available.
- \_\_4. No sufficient social infrastructures, such as water, electricity or school, clinic, etc. are available.
- \_\_5. Our environment is very bad/floods often occur.
- \_\_6. Security of our neighborhood is poor.
- \_\_7. Other (specify) \_\_\_\_\_

Any other **interviewee's special and important** comments need to be recorded:

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**Interviewer's Comments:**

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THE STUDY ON DRAINAGE IMPROVEMENT IN THE CORE AREA OF  
METROPOLITAN MANILA, REPUBLIC OF THE PHILIPPINES  
ay isinasagawa ng JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)  
sa pakikipagtulungan ng METROPOLITAN MANILA DEVELOPMENT AUTHORITY (MMDA) at  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

**SURVEY FORM**

Panimula

Ang pag-aaral na ito ay bahagi ng pagsasaayos ng daloyan tubig imburnal sa kalakahang Maynila , tinitignan nito ang kalagayang pang-tao ng mga barangay na maapektohan mula sa pag-sisimula , paggawa at pagpatakbo ng proyekto.

*(The perception survey is part of the study to improve the drainage in the core area of Manila, it considers the situation of the residents in the communities that are to be affected by the project from construction to operation )*

**Date/Time of Interview:** \_\_\_\_\_ **Respondents ID No.:** \_\_\_\_\_

1. **BARANGAY:** \_\_\_\_\_ **CITY:** \_\_\_\_\_

2. Saan nakatira:

Kung tabi ng Estero: \_\_\_\_\_ Gaano ka layo: \_\_\_\_\_ kilometro

Binabaha binabaha: \_\_\_\_\_ Gaano kalalim: \_\_\_\_\_

**3.DEMOGRAPHIC DATA OF THE RESPONDENT**

3.1 Pangalan (name) \_\_\_\_\_

3.2 Kasarian (gender) Lalaki \_\_\_\_\_ Babae \_\_\_\_\_

3.4 Lugar kung saan pinanganak \_\_\_\_\_  
( Place of birth)

Lugar	
Luzon	
Visayas	
Mindanao	

3.5 Edad (age) \_\_\_\_\_

3.6 Ano aang iyong estado sibil?( Civil status)

Tsek

Binata/ dalaga	
May-asawa	
Biyudo/a	
Hiwalay	

3.7 Ano ang inyong relihiyon? ( religion)

Tske

Katoliko (Catholic)	
Iglesia ni Kristo ( Church of Christ)	
Protestante (Protestant	
Iba ( pakisabi po)	

3.8 Taga-saan Kayo o Ano ang salita niyo?( *Ethnic affiliation*)

Ilokano /Pangasinan	
Kapangpangan	
Tagalog	
Bicolano	
Visaya ( Cebuano, Ilongo,Waray )	
Muslim/ Lumad	
Others	

4. FAMILY

4.1 Kung mayasawa, ilan ang inyong anak na buhay?

(*If married, how many children?*)

Babae ( female)	
Lalaki ( male)	
Total	

4.2 Ilang tao ang nakatira sa inyong bahay?\_\_\_\_\_

( *Number of people residing in the house*)

Alin sa mga sumusunod ang mga edad ng mga tao nakatira sa inyong bahay? ( *Ages of people living in the house*)

Edad ( Age Group)

Age	Babae (female)	Lalaki (male)	Relasyon (relation)
< 5 years			
6- 10 years			
11- 14 years			
15- 60 years			
60- 64 years			
> 65 years			

5. EDUCATION

5.1 Pinakataas na pinagaralan ( tsek)( *educational attainment*)

	Husband	Wife
Wala		
Elementary (pinakataas natapos)		
High School (pinakataas natapos)		
Vocational		
College		

5.2 Anak na nagaaral ( education of children)

	Ilan ( how many)
Wala	
Elementary	
High School	
Vocational	
College	

## 6. CONDITION OF LIFE - MIGRATION/SETTLEMENT HISTORY

6.1 Ilang taon na po kayo nakatira dito sa barangay?

( Number of years residing in the barangay)

Taon	Tske
1 - 20	
21 - 30	
31 - 40	
41 - 50	
51 - pataas	

6.2 Nakatira po ba kayo sa ibang lugar noon? ( Have you resided in another place before?)

Oo	
Hindi	

Kung Oo, saan po? \_\_\_\_\_  
(If yes, where?)

6.3 Bakit po kayo lumipat dito?

( Why did you transfer?)

Rason ( reason)	
Trabajo	
Maykamaganak	
Maykaibigan	
Walang ibang mapuntahan	

6.4 Kung kayo ang pipili dito po ba kayo titira o lilipat po ba kayo sa ibang lugar?  
Dito ( If, you have your choice do still prefer to stay here?)

6.4.1 Dito \_\_\_\_\_, bakit po? ( If, you prefer to stay here why?)

Rason ( reason)	
Trabajo	
Maykamaganak	
Maykaibigan	
Walang ibang mapuntahan	

6.4.2 Ibang lugar \_\_\_\_\_, bakit po? ( If, another place, why?)

Rason ( reason)	
Trabajo	
Maykamaganak	
Maykaibigan	
Walang ibang mapuntahan	

( for informal settlers)

6.5 )Kung kayo ay ipapalipat ng Gobyerno anong kondisyon ang kailangan ninyo? ( If you are asked by the government to transfer, what conditions do you need?)

Bigyan ng bahay at lupa lang	
Bigyan ng bahay, lupa, tubig at ilaw	
Iba pa	

6.6 Ano ang matitinding hinaharap ninyong problema sa buhay sa ngayon?

1. Walang trabaho	
2. walang tamang kita pang supporta ng pamilya	
3. walang serbisyo ng gobierno ( tubig, ilaw, paaralan,clinic atbp.)	
4. lagging binabaha ang aming lugar	
5. maraming masasamang loob ( addict, magnanakaw atbp )	
6. Iba pa	

## 7. HOUSEHOLD INCOME AND EMPLOYMENT

7.1 Ilan sa kasamahan sa bahay ang tumutulong sa kita ng pamilya?( How many in the family help in the income?)

1	
2	
3	
4	
5 >	

7.2 Ano ang pangunahin pinagkakakitan ng pamilya?  
( The main source of income)

tske

Pagtitinda ( selling)	
Pagpapaupa (services)	
Suweldado (salaried )	
Iba pa (others)	
Wala (none)	

7.2.1 Kaninong kita ang ina-aasahan ng pamilya?  
( Whose income is depended on by the family?)

tske

Asawang lalaki (husband)	
Asawang babae (wife)	
Anak na lalaki (son)	
Anak na babae (daughter)	
Kamaganak na lalaki (male relative)	
Kamaganak na babae (female relative)	

7.2.2 May iba pa bang pinagkakakitaan ang pamilya? Oo,\_\_\_\_ ( other source of income, What?)

Wala \_\_\_\_\_ Kung mayroon, ano ito?\_\_\_\_\_



7.3 Kaninong kita ito? ( whose income is this?)

tske

Asawang lalaki (husband)	
Asawang babae (wife)	
Anak na lalaki (son)	
Anak na babae (daughter)	
Kamaganak na lalaki (male relative)	
Kamaganak na babae (female relative)	

7.4 Sa tingin po ninyo, magkano kaya ang kinikita ng inyong pamilya sa isang buwan?  
( Calculated income per month)

tske

Less than 1000	
P 1,000 - 4,999	
P 5,000 - 9,999	
P10,000 -14,999	
P15,000 - 20,000	
More than 20,000	

7.5. Tama lang ba ang kita para sa pamilya? (Does the income satisfy the needs of the family?)

OO (yes)	
HINDI (no)	

7.6. Kung hindi, sa anong paraan upang matugunan ang pangangailangan ng pamilya? (If, not what would you do to meet the necessary expenses?)

Kanino manghihiram (source)	
Manghiram sa kamaganak (Borrow from relative)	
Manghiram sa kaibigan (borrow from friend)	
Manghiram sa Bombay (borrow from 5 -6)	
Gamitin ang naka tago (use what is kept)	
Iba pa	

7.7. Magkano kaya ang ariarian mo? ( approximate value of property)

Tantiyang Magkano	
P500 - 1,000	
P1,001 - 5,000	
P 5,001 - 10,000	
P 10,000 >	

8. LIVING CONDITION - HOUSING AND UTILITIES ( Bahay at Kagamitan )

8.1. Materyales gawa ang bahay ( materials house is made of)

	Yero (galvanized iron)	Kahon (boxes)	plywood	Semento (cement)	Kawayan (bamboo)	Kahoy (wood)	Iba pa (others)
Bubong (roof)							
Dingding (walls)							
Sahig (floor)							

8.2 Pagaari ng bahay at lupa ( *Ownership of house & lot*)

	Bahay	Lupa
May-ari ( <i>owner</i> )		
Nag-arkila ( <i>renting</i> )		
Libreng Tira ( <i>free</i> )		

8.2.1 Kung pag-aari ang lote, kanino ito nakapangalan  
Asawang lalaki(*husband*)\_\_\_\_\_ Asawang Babae (*wife*)\_\_\_\_\_  
( *If, you are the owner, to whom is it named?*)

8.3. Ilan kwadrado metro ang inyong sahig sa bahay? sq. meter) (*The floor measurement*)

Size	
10 sq.m	
20 -30 sq.m	
50 sq.m	
70 - 100 sq.m	
100 -200 sq.m	
More than 200 sq.m	

8.4. Gaano kalaki ang lupa ( *land measurement*)

Size	
10 sq.m	
20 -30 sq.m	
50 sq.m	
70 - 100 sq.m	
100 -200 sq.m	
200 - 500 sq.m	
More than 500 sq.m	

8.5 Ilan po ang silid ng inyong bahay? ( *no. of rooms*)

Number of Rooms	
1	
2	
3	
4	
5 >	

8.6 Ilang taon na po kayo nakatira sa inyong bahay?  
( *How long have you been living in this house?*)

Number of years	
1 -5	
6 -10	
11 - 15	
16 - 20	
20 >	

8.7 Ano ang gamit niyo sa ilaw at pagluto?  
( What do you use for light and cooking?)

	Pagluto(cooking)	Ilaw (light)
Koryente (electric)		
LPG		
Ga-as		
Kahoy (wood)		
Iba pa (others)		

8.8 Magkano ang nababayad niyo sa kuryente buwan-buwan? P\_\_\_\_\_ ( How much do you pay for electric bill?)

Amount paid	
>50	
60 - 100	
101 - 300	
301 - 500	
500>	

8.9 Anong klaseng palikuran ang mayroon kayo?(paki-tske ) ( Type of toilet use)

Plash na inudoro (flush)	
Buhos na inudoro (water sealed)	
Antipolo ( hole in the ground)	
Sa paligid ( anywhere)	

## 9. Environmental Situation ( kalagayan ng kapaligiran)

9.1 Ihambing sa 10 taong nakaraan sa ngayon ang kalagayan ng inyong kapaligiran ?(  
Compare the past 10 years to the present, are there changes in your environment?)

	Mayroon(there is)	Wala(none)
Mga Punong kahoy (trees)		
Hayop at ibon (animals & birds)		
Tubig ( water source)		
Tubig sa estero/sapa ( water in the estero/creek)		
Daloyan ng maruming tubig (sewerage)		
Kasariwaan ng hangin (air freshness)		

9.2 Kung mayroon mas nakakabuti ba o lalaong nakasama( if there are changes, is it better or worse)

	Mas mabuti (better)	Mas masama (worse)
Mga Punong kahoy (trees)		
Hayop at ibon (animals & birds)		
Tubig ( water source)		
Tubig sa estero/sapa ( water in the estero/ creek)		
Daloyan ng maruming tubig (sewerage)		
Kasariwaan ng hangin (air freshness)		

9.3 Ano ang mga kadahilan ng magiiba ng kapaligarn? (What are reasons for these changes in the environment?)

Reasons	
Pollution	
Dumani ang tao (Overpopulation)	
Kapabayaang (Neglect)	
Sobrang Basura (too much garbage)	
Iba pa (others)	

9.4 Mayroon ba kayong imumungkahi upan maibalik ang kagandahan ng ating kapaligiran? (Do you have suggestions to restore the environment? Oo\_\_\_ Wala\_\_\_, Kung Oo, ano ho ito?\_\_\_\_\_

## 10. PUBLIC HEALTH

10.1 Sa nakaraang isan taon mayroon ho bang nagkasakit sa inyong pamilya ng dahil sa tubig? (Mayroon there was) \_\_\_\_\_ Wala\_ (nobody) \_\_\_\_\_  
( In the last year has anybody been sick in your family caused by water?)

10.2 Kung mayroon ilan silang nagkasakit?) ( If, there was, how many got sick?)  
\_\_\_\_\_

10.3 Ano po ang sakit nila?( What type of sickness did they suffer from?)

Diarrhea	
Dysentery	
Cholera	
Typhoid	
Hepatitis	
Malaria	
Iba pa	

10.4 Kung pinapagamot, saan po nag pagamot at magkano ang na gastos?(If treated, where?)

Saan(where)		Magkano(how much?)	
Sa bahay lang(at home)		P500 - 1,000	
Barangay Health center		P2,000-3,000	
Albularyo (Herbalist)		P4,000-5,000	
Pribadong Clinic (private clinic)		>p6,000	
Municipal Health Center			
Provincial Health Center			

## 11. EXPERIENCE ON FLOOD

11.1 Sa nakaraang limang taon, nakaranas ba kayo ng baha at pagkasiran ng baha? ( In the past five years have you experienced flooding and damages?)  
Oo (yes) \_\_\_\_\_  
Hindi (No) \_\_\_\_\_

11.2 Kung nakaranas, ilang beses ( If, you have experienced , how many times?)

Ilang beses? ( How many times?)	
---------------------------------	--

11.3 Ano ang napektohan o nasira? ( What was affected or damaged?)

Tao (Human damage)	
Kagamitan (Material damage)	
Tao at kagamitan ( human & material)	

11.4 Sa inyong tantiya, magkano kaya ang nasira?

P500 -1000	
P2,000 - 5,000	
P6,000 - 10,000	
<11,000	

11.5 Magkano kaya ang nawala sa inyong kita? ( How much was lost?)

P500 -1000	
P2,000 - 5,000	
P6,000 - 10,000	
<11,000	

11.6 Pag bumabaha anong paraan ang ginawa niyo upang ma-iwasan ang masiraan ng gamit?( Measures to prevent possible damages)

Paraan ( measures)	
Nilipat ang mga gamit sa lugar na ligtas ( transferred to a safe place)	
Lumipat ang bunong pamilya ( wholw family transferred)	
Binalot ang mga gamit sa plastic ( wrap the things with plastic)	
Iba pa	

11.7 Alam ba ninyo na binabaha ang lugar na ito, bakit patuloy parin kayo tumitira dito?

Mas mura ang lupa	
Matagal na kami nakatira ditto	
Gusto ko ang kapaligiran	
Maganda ang hanap-buhay ditto	
Iba pa	

11.8( **Perception about flood**) Sa tingin nyo, mapigilan kaya ang pagbaha?(Do you think flooding could be stopped) 00 \_\_\_\_\_ HINDI \_\_\_\_\_

11.9 Ano kaya ang sanhi ng pagbaha? ( cause of flooding)

Sobrang ulan	
Mababa ang lugar	
Makipot ang daloyan ng tubig	
Puno ng basura ang estero	
Diyos ang may alam	
Iba pa	

## 12. Garbage and garbage collection

12.1 Sino at saan nag tatapon ng basura? (Who throws and where is your garbage dispose?)

Sino		Saan	
Tatay		Sa lugar ng pinagkukunan ng basura	
Nanay		Sa harap ng bahay	
Anak na lalaki		Kahit saan	
Anak na babae		Tapon sa estero	
Iba pa		Iba pa	

12.2 Anong ginagawa ninyo sa mga sumusunod na basura: (What do you do with the following solid waste?)

Klase ng basura ( type of waste)	Benta(sell)	Bigay (give)	Tapon (throw)
	Presyo		
1. Nabubulok na basura ( biodegradable)	Ph		
• Pag-kain (food)			
• Kahoy (wood)			
• Damo/ dahon (plants)			
2. Ibang basura galing sa bahay na hindi nabubulok: ( non-biodegradable)			
• Plastic			
• Papel (paper)			
• Goma (rubber)			
• Bote/garapon (bottles)			
• Batteries			
• Fluorescent/ bombilya (bulbs)			
• Mga sirang apliyance (Junk appliances)			
• Iba pa (others)			

12.3 Ano ang nilalagyan ninyo ng inyong basura? (Where do put your garbage?)

Lalagyan	
Plastic bag	
Plastic na balde o lalagyan	
Sako	
Iba pa	

12.4 Gaano kaya karaming basura ang tinatapon sa isang araw/ sa isang lingo? ( amount of garbage per day/per week)

Lalagayan	Isang araw	Isang lingo
Maliit na plastic bag		
Maliit na balde		
Malaking plastic bag		
Iba pa		

12.5 Alam ba ninyo na nakakasama sa paligiran at nagiging sanhi ng baha ang basura? ( Do you know that the indiscriminate throwing of garbage is bad for the environment as well as the cause of flooding? OO \_\_\_\_\_ HINDI \_\_\_\_\_)

### 13 Situasyon ng pag kolekta ng basura

13.1 May komokoleta ba ng basura sa inyong barangay? (Is somebody in your barangay collecting the garbage?)

MERON \_\_\_\_\_ WALA \_\_\_\_\_

13.2 Kung meron , ilang beses kinokolekta ang basura sa isang lingo? ( If there is garbage collection , how many times a week do they collect?)

Dalas ng pagkolekto	
Minsan isang lingo	
Dalawang beses isang lingo	
Tatlong beses sa isang lingo	
Pa minsan-minsan	
Pambihira	

13.3 Kung wala, saan ninyo nilalagay ang inyong basura? (If nobody collects, where do you put your garbage?)

Saan nilalagay	
Nililibing	
Dinadala sa dump-site	
Tinatapon sa estero	
Iniiwanan sa kalye	
Iba pa	

13.4 Sino ang nagpapakolekta ng basura ( Who collects the garbage?)

Munisipyo	
Barangay	
Pribadong kompaniya	
Iba pa	

13.5 Saan kinukuha ang basura ( Where is the garbage collected?)

Sa bawat bahay	
Sa harap ng bahay	
Sa isang lugar	
Iba pa	

13.6 Alam ba ninyo ang batas tungkol sa pagtapon ng basura?( Do you know that there is a law for the throwing of garbage?) OO \_\_\_\_\_ HINDI \_\_\_\_\_

13.7 Alam ba ninyo na may batas din tungkol sa pagpapaunti ng dami ng basura? (Do you know that there is a law in waste reduction?)

OO \_\_\_\_\_ HINDI \_\_\_\_\_

13.8 Ang proyekto naming ay planong gumawa ng proyekto sa pag-recycle ng mahalagang basura. Puwede kaya kayong sumali sa proyekto?( Our project has a plan to implement pilot projects for recycling valuable waste, are you willing to join?)

Katuwiran	
OO, kung pagkakakitaan	
OO, kung makakabuti ng buhay dito sa amin	
OO, makatulong lang	
Hindi, kung hindi pagkakakitaan	

13.9 Opiniyon po ninyo sa ikakabuti ng koleksyon ng basura( Opinion and suggestion for the improvement of the garbage collection system)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

13.10 Opiniyon at suhestyon po ninyo sa ikakabuti ng kalagayan ng buhay. (Opinion and suggestion for the improvement our situation in life )

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

INTERVIEWEE'S COMMENTS IF ANY: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SALAMAT PO!  
(THANK YOU!)

Jica/mmda/dpwh Qst 04



TABLE 1 - GENDER OF RESPONDENTS

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Gender	Male	Count	26	83	54	6	4	192
		% within Gender	13.5%	43.2%	28.1%	3.1%	2.1%	100.0%
		% within City	27.4%	39.9%	37.0%	40.0%	26.7%	35.4%
		% of Total	4.8%	15.3%	10.0%	1.1%	.7%	35.4%
	Female	Count	69	125	92	9	11	350
		% within Gender	19.7%	35.7%	26.3%	2.6%	3.1%	100.0%
		% within City	72.6%	60.1%	63.0%	60.0%	73.3%	64.6%
		% of Total	12.7%	23.1%	17.0%	1.7%	2.0%	64.6%
Total		Count	95	208	146	15	15	542
		% within Gender	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
		% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
		% of Total	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 2 - RELIGION

Description		City						Total	
		Calocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig		
Religion	Catholic	Count	61	90	183	132	15	13	494
		% within Religion	12.3%	18.2%	37.0%	26.7%	3.0%	2.6%	100.0%
		% within City	96.8%	94.7%	88.0%	90.4%	100.0%	86.7%	91.1%
		% of Total	11.3%	16.6%	33.8%	24.4%	2.8%	2.4%	91.1%
	Iglesia ni Kristo	Count	2	3	1	5	0	0	11
		% within Religion	18.2%	27.3%	9.1%	45.5%	.0%	.0%	100.0%
		% within City	3.2%	3.2%	.5%	3.4%	.0%	.0%	2.0%
		% of Total	.4%	.6%	.2%	.9%	.0%	.0%	2.0%
	Protestant	Count	0	1	1	5	0	0	7
		% within Religion	.0%	14.3%	14.3%	71.4%	.0%	.0%	100.0%
	% within City	.0%	1.1%	.5%	3.4%	.0%	.0%	1.3%	
	% of Total	.0%	.2%	.2%	.9%	.0%	.0%	1.3%	
Born Again	Count	0	1	19	4	0	2	26	
	% within Religion	.0%	3.8%	73.1%	15.4%	.0%	7.7%	100.0%	
	% within City	.0%	1.1%	9.1%	2.7%	.0%	13.3%	4.8%	
	% of Total	.0%	.2%	3.5%	.7%	.0%	.4%	4.8%	
Islam	Count	0	0	4	0	0	0	4	
	% within Religion	.0%	.0%	100.0%	.0%	.0%	.0%	100.0%	
	% within City	.0%	.0%	1.9%	.0%	.0%	.0%	.7%	
	% of Total	.0%	.0%	.7%	.0%	.0%	.0%	.7%	
Total	Count	63	95	208	146	15	15	542	
	% within Religion	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%	
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%	

TABLE 3 - ETHNIC AFFILIATION

Description		City							Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig		
Ethnic Affiliation	Ilokano	Count % within Ethnicity % within City % of Total	4 10.0% 6.3% .7%	7 17.5% 7.4% 1.3%	18 45.0% 8.7% 3.3%	10 25.0% 6.8% 1.8%	1 2.5% 6.7% .2%	0 .0% .0% .0%	40 100.0% 7.4% 7.4%
	Kapampangan	Count % within Ethnicity % within City % of Total	5 31.3% 7.9% .9%	1 6.3% 1.1% .2%	8 50.0% 3.8% 1.5%	2 12.5% 1.4% .4%	0 .0% .0% .0%	0 .0% .0% .0%	16 100.0% 3.0% 3.0%
	Tagalog	Count % within Ethnicity % within City % of Total	30 9.8% 47.6% 5.5%	54 17.7% 56.8% 10.0%	124 40.7% 59.6% 22.9%	86 28.2% 58.9% 15.9%	8 2.6% 53.3% 1.5%	3 1.0% 20.0% .6%	305 100.0% 56.3% 56.3%
	Bicolano	Count % within Ethnicity % within City % of Total	5 13.5% 7.9% .9%	9 24.3% 9.5% 1.7%	13 35.1% 6.3% 2.4%	8 21.6% 5.5% 1.5%	1 2.7% 6.7% .2%	1 2.7% 6.7% .2%	37 100.0% 6.8% 6.8%
	Visayan	Count % within Ethnicity % within City % of Total	13 13.1% 20.6% 2.4%	20 20.2% 21.1% 3.7%	25 25.3% 12.0% 4.6%	35 35.4% 24.0% 6.5%	0 .0% .0% .0%	6 6.1% 40.0% 1.1%	99 100.0% 18.3% 18.3%
	Muslim/Lumad	Count % within Ethnicity % within City % of Total	0 .0% .0% .0%	0 .0% .0% .0%	9 100.0% 4.3% 1.7%	0 .0% .0% .0%	0 .0% .0% .0%	0 .0% .0% .0%	9 100.0% 1.7% 1.7%
	Ibanag	Count % within Ethnicity % within City % of Total	0 .0% .0% .0%	4 66.7% 4.2% .7%	1 16.7% .5% .2%	1 16.7% .7% .2%	0 .0% .0% .0%	0 .0% .0% .0%	6 100.0% 1.1% 1.1%

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Mixed	Count	6	0	10	4	5	5	30
	% within Ethnicity	20.0%	.0%	33.3%	13.3%	16.7%	16.7%	100.0%
	% within City	9.5%	.0%	4.8%	2.7%	33.3%	33.3%	5.5%
	% of Total	1.1%	.0%	1.8%	.7%	.9%	.9%	5.5%
Total	Count	63	95	208	146	15	15	542
	% within Ethnicity	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 4 - NUMBER OF CHILDREN IN THE HOUSE

Description		City						Total
		Calocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
0 No. of Children	Count	11	15	43	40	4	5	118
	% within No. of Children	9.3%	12.7%	36.4%	33.9%	3.4%	4.2%	100.0%
	% within City	17.5%	15.8%	20.7%	27.4%	26.7%	33.3%	21.8%
	% of Total	2.0%	2.8%	7.9%	7.4%	.7%	.9%	21.8%
1	Count	7	13	33	18	2	3	76
	% within No. of Children	9.2%	17.1%	43.4%	23.7%	2.6%	3.9%	100.0%
	% within City	11.1%	13.7%	15.9%	12.3%	13.3%	20.0%	14.0%
	% of Total	1.3%	2.4%	6.1%	3.3%	.4%	.6%	14.0%
2	Count	18	14	44	32	2	4	114
	% within No. of Children	15.8%	12.3%	38.6%	28.1%	1.8%	3.5%	100.0%
	% within City	28.6%	14.7%	21.2%	21.9%	13.3%	26.7%	21.0%
	% of Total	3.3%	2.6%	8.1%	5.9%	.4%	.7%	21.0%
3	Count	10	20	30	24	2	2	88
	% within No. of Children	11.4%	22.7%	34.1%	27.3%	2.3%	2.3%	100.0%
	% within City	15.9%	21.1%	14.4%	16.4%	13.3%	13.3%	16.2%
	% of Total	1.8%	3.7%	5.5%	4.4%	.4%	.4%	16.2%
4	Count	11	18	31	10	3	1	74
	% within No. of Children	14.9%	24.3%	41.9%	13.5%	4.1%	1.4%	100.0%
	% within City	17.5%	18.9%	14.9%	6.8%	20.0%	6.7%	13.7%
	% of Total	2.0%	3.3%	5.7%	1.8%	.6%	.2%	13.7%
5	Count	2	9	10	11	0	0	32
	% within No. of Children	6.3%	28.1%	31.3%	34.4%	.0%	.0%	100.0%
	% within City	3.2%	9.5%	4.8%	7.5%	.0%	.0%	5.9%
	% of Total	.4%	1.7%	1.8%	2.0%	.0%	.0%	5.9%
6	Count	1	1	7	3	1	0	13
	% within No. of Children	7.7%	7.7%	53.8%	23.1%	7.7%	.0%	100.0%
	% within City	1.6%	1.1%	3.4%	2.1%	6.7%	.0%	2.4%
	% of Total	.2%	.2%	1.3%	.6%	.2%	.0%	2.4%

7	Count	1	1	5	5	0	0	12
	% within No. of Children	8.3%	8.3%	41.7%	41.7%	.0%	.0%	100.0%
	% within City	1.6%	1.1%	2.4%	3.4%	.0%	.0%	2.2%
	% of Total	.2%	.2%	.9%	.9%	.0%	.0%	2.2%
8	Count	1	2	1	1	0	0	5
	% within No. of Children	20.0%	40.0%	20.0%	20.0%	.0%	.0%	100.0%
	% within City	1.6%	2.1%	.5%	.7%	.0%	.0%	.9%
	% of Total	.2%	.4%	.2%	.2%	.0%	.0%	.9%
9	Count	0	1	2	0	1	0	4
	% within No. of Children	.0%	25.0%	50.0%	.0%	25.0%	.0%	100.0%
	% within City	.0%	1.1%	1.0%	.0%	6.7%	.0%	.7%
	% of Total	.0%	.2%	.4%	.0%	.2%	.0%	.7%
10	Count	1	0	1	2	0	0	4
	% within No. of Children	25.0%	.0%	25.0%	50.0%	.0%	.0%	100.0%
	% within City	1.6%	.0%	.5%	1.4%	.0%	.0%	.7%
	% of Total	.2%	.0%	.2%	.4%	.0%	.0%	.7%
11	Count	0	1	0	0	0	0	1
	% within No. of Children	.0%	100.0%	.0%	.0%	.0%	.0%	100.0%
	% within City	.0%	1.1%	.0%	.0%	.0%	.0%	.2%
	% of Total	.0%	.2%	.0%	.0%	.0%	.0%	.2%
12	Count	0	0	1	0	0	0	1
	% within No. of Children	.0%	.0%	100.0%	.0%	.0%	.0%	100.0%
	% within City	.0%	.0%	.5%	.0%	.0%	.0%	.2%
	% of Total	.0%	.0%	.2%	.0%	.0%	.0%	.2%
Total		63	95	208	146	15	15	542
		11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
		11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 5 - HOUSEHOLD SIZE

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Household Size 1	Count	1	2	3	3	2	0	11
	% within Household Size	9.1%	18.2%	27.3%	27.3%	18.2%	.0%	100.0%
	% within City	1.6%	2.1%	1.4%	2.1%	13.3%	.0%	2.0%
	% of Total	.2%	.4%	.6%	.6%	.4%	.0%	2.0%
2	Count	5	3	15	5	0	0	28
	% within Household Size	17.9%	10.7%	53.6%	17.9%	.0%	.0%	100.0%
	% within City	7.9%	3.2%	7.2%	3.4%	.0%	.0%	5.2%
	% of Total	.9%	.6%	2.8%	.9%	.0%	.0%	5.2%
3	Count	8	15	34	19	3	2	81
	% within Household Size	9.9%	18.5%	42.0%	23.5%	3.7%	2.5%	100.0%
	% within City	12.7%	15.8%	16.3%	13.0%	20.0%	13.3%	14.9%
	% of Total	1.5%	2.8%	6.3%	3.5%	.6%	.4%	14.9%
4	Count	17	16	41	39	2	4	119
	% within Household Size	14.3%	13.4%	34.5%	32.8%	1.7%	3.4%	100.0%
	% within City	27.0%	16.8%	19.7%	26.7%	13.3%	26.7%	22.0%
	% of Total	3.1%	3.0%	7.6%	7.2%	.4%	.7%	22.0%
5 and above	Count	32	59	115	80	8	9	303
	% within Household Size	10.6%	19.5%	38.0%	26.4%	2.6%	3.0%	100.0%
	% within City	50.8%	62.1%	55.3%	54.8%	53.3%	60.0%	55.9%
	% of Total	5.9%	10.9%	21.2%	14.8%	1.5%	1.7%	55.9%
Total	Count	63	95	208	146	15	15	542
	% within Household Size	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

**TABLE 6 - EDUCATIONAL ATTAINMENT OF HUSBAND**

Description		City						Total	
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig		
Educational Attainment of Husband	Not Applicable	Count	11	18	59	44	6	4	142
		% within Educational Attainment of Husband	7.7%	12.7%	41.5%	31.0%	4.2%	2.8%	100.0%
		% within City	17.5%	18.9%	28.4%	30.1%	40.0%	26.7%	26.2%
		% of Total	2.0%	3.3%	10.9%	8.1%	1.1%	.7%	26.2%
None		Count	1	0	1	0	0	0	2
		% within Educational Attainment of Husband	50.0%	.0%	50.0%	.0%	.0%	.0%	100.0%
		% within City	1.6%	.0%	.5%	.0%	.0%	.0%	.4%
		% of Total	.2%	.0%	.2%	.0%	.0%	.0%	.4%
Elementary		Count	5	20	14	16	1	0	56
		% within Educational Attainment of Husband	8.9%	35.7%	25.0%	28.6%	1.8%	.0%	100.0%
		% within City	7.9%	21.1%	6.7%	11.0%	6.7%	.0%	10.3%
		% of Total	.9%	3.7%	2.6%	3.0%	.2%	.0%	10.3%
High School		Count	30	43	85	65	4	6	233
		% within Educational Attainment of Husband	12.9%	18.5%	36.5%	27.9%	1.7%	2.6%	100.0%
		% within City	47.6%	45.3%	40.9%	44.5%	26.7%	40.0%	43.0%
		% of Total	5.5%	7.9%	15.7%	12.0%	.7%	1.1%	43.0%
Vocational		Count	7	4	6	9	0	1	27
		% within Educational Attainment of Husband	25.9%	14.8%	22.2%	33.3%	.0%	3.7%	100.0%
		% within City	11.1%	4.2%	2.9%	6.2%	.0%	6.7%	5.0%
		% of Total	1.3%	.7%	1.1%	1.7%	.0%	.2%	5.0%



Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
College	Count	9	10	43	12	4	4	82
	% within Educational Attainment of Husband	11.0%	12.2%	52.4%	14.6%	4.9%	4.9%	100.0%
	% within City % of Total	14.3%	10.5%	20.7%	8.2%	26.7%	26.7%	15.1%
Total	Count	63	95	208	146	15	15	542
	% within Educational Attainment of Husband	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% within City % of Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
		11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 7 - EDUCATIONAL ATTAINMENT OF WIFE

Educational Attainment of Wife	Description	City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Not Applicable	Count	10	12	41	38	3	5	109
	%							
	Educational Attainment of Wife	9.2%	11.0%	37.6%	34.9%	2.8%	4.6%	100.0%
	% within City	15.9%	12.6%	19.7%	26.0%	20.0%	33.3%	20.1%
None	% of Total	1.8%	2.2%	7.6%	7.0%	.6%	.9%	20.1%
	Count	2	2	2	0	0	0	6
	%							
	Educational Attainment of Wife	33.3%	33.3%	33.3%	.0%	.0%	.0%	100.0%
Elementary	% within City	3.2%	2.1%	1.0%	.0%	.0%	.0%	1.1%
	% of Total	.4%	.4%	.4%	.0%	.0%	.0%	1.1%
	Count	7	20	25	19	1	0	72
	%							
High School	Educational Attainment of Wife	9.7%	27.8%	34.7%	26.4%	1.4%	.0%	100.0%
	% within City	11.1%	21.1%	12.0%	13.0%	6.7%	.0%	13.3%
	% of Total	1.3%	3.7%	4.6%	3.5%	.2%	.0%	13.3%
	Count	30	53	85	61	5	5	239
Vocational	%							
	Educational Attainment of Wife	12.6%	22.2%	35.6%	25.5%	2.1%	2.1%	100.0%
	% within City	47.6%	55.8%	40.9%	41.8%	33.3%	33.3%	44.1%
	% of Total	5.5%	9.8%	15.7%	11.3%	.9%	.9%	44.1%
	Count	4	2	13	14	0	0	33
	%							
	Educational Attainment of Wife	12.1%	6.1%	39.4%	42.4%	.0%	.0%	100.0%
	% within City	6.3%	2.1%	6.3%	9.6%	.0%	.0%	6.1%
	% of Total	.7%	.4%	2.4%	2.6%	.0%	.0%	6.1%
	Count							
	%							
	Educational Attainment of Wife							

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
College	Count	10	6	42	14	6	5	83
	% within Educational Attainment of Wife % within City	12.0%	7.2%	50.6%	16.9%	7.2%	6.0%	100.0%
	% within City	15.9%	6.3%	20.2%	9.6%	40.0%	33.3%	15.3%
	% of Total	1.8%	1.1%	7.7%	2.6%	1.1%	.9%	15.3%
Total	Count	63	95	208	146	15	15	542
	% within Educational Attainment of Wife % within City	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 8 - NUMBER OF YEARS RESIDING IN THE BARANGAY

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
No. of Years Residing in the Barangay	1 – 20 years	Count						
21 -30 years								
31 – 40 years								
41 – 50 years								
Above 50 years								
Total								

TABLE 9 - PREFERENCE TO STAY OR TRANSFER TO OTHER AREA

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
If Prefer to Stay or Transfer in Other Area	Will prefer to Count to Stay in place	54	78	186	116	14	14	462
	% within If Prefer to Stay or Transfer in Other Area	11.7%	16.9%	40.3%	25.1%	3.0%	3.0%	100.0%
	% within City % of Total	85.7% 10.0%	82.1% 14.4%	89.4% 34.3%	79.5% 21.4%	93.3% 2.6%	93.3% 2.6%	85.2% 85.2%
	Will prefer to relocate in another place	9	17	22	30	1	1	80
	% within If Prefer to Stay or Transfer in Other Area	11.3%	21.3%	27.5%	37.5%	1.3%	1.3%	100.0%
	% within City % of Total	14.3% 1.7%	17.9% 3.1%	10.6% 4.1%	20.5% 5.5%	6.7% .2%	6.7% .2%	14.8% 14.8%
Total	Count	63	95	208	146	15	15	542
	% within If Prefer to Stay or Transfer in Other Area	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% within City % of Total	100.0% 11.6%	100.0% 17.5%	100.0% 38.4%	100.0% 26.9%	100.0% 2.8%	100.0% 2.8%	100.0% 100.0%

TABLE 10 – REASONS FOR TRANSFERRING IN ANOTHER PLACE OF RESIDENCE

Reasons for Transferring in Other Area	Description	City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Not Applicable	Count	54	78	186	116	14	14	462
	% within Reasons for Transferring in Other Area	11.7%	16.9%	40.3%	25.1%	3.0%	3.0%	100.0%
	% within City	85.7%	82.1%	89.4%	79.5%	93.3%	93.3%	85.2%
	% of Total	10.0%	14.4%	34.3%	21.4%	2.6%	2.6%	85.2%
Job Opportunity	Count	3	7	7	10	0	1	28
	% within Reasons for Transferring in Other Area	10.7%	25.0%	25.0%	35.7%	.0%	3.6%	100.0%
	% within City	4.8%	7.4%	3.4%	6.8%	.0%	6.7%	5.2%
	% of Total	.6%	1.3%	1.3%	1.8%	.0%	.2%	5.2%
Have Relatives	Count	4	7	10	17	1	0	39
	% within Reasons for Transferring in Other Area	10.3%	17.9%	25.6%	43.6%	2.6%	.0%	100.0%
	% within City	6.3%	7.4%	4.8%	11.6%	6.7%	.0%	7.2%
	% of Total	.7%	1.3%	1.8%	3.1%	.2%	.0%	7.2%
Have Friends	Count	1	0	0	0	0	0	1
	% within Reasons for Transferring in Other Area	100.0%	.0%	.0%	.0%	.0%	.0%	100.0%
	% within City	1.6%	.0%	.0%	.0%	.0%	.0%	.2%
	% of Total	.2%	.0%	.0%	.0%	.0%	.0%	.2%
No other place to go	Count	1	3	5	3	0	0	12
	% within Reasons for Transferring in Other Area	8.3%	25.0%	41.7%	25.0%	.0%	.0%	100.0%
	% within City	1.6%	3.2%	2.4%	2.1%	.0%	.0%	2.2%
	% of Total	.2%	.6%	.9%	.6%	.0%	.0%	2.2%
Total	Count	63	95	208	146	15	15	542

Description	City						Total
	Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
% within Reasons for Transferring in Other Area	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 11 - CONDITIONS FOR RELOCATION

Conditions Transferring	Description for	City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Not Applicable	Count	4	36	57	43	2	2	144
	% within Conditions for Transferring	2.8%	25.0%	39.6%	29.9%	1.4%	1.4%	100.0%
	% within City	6.3%	37.9%	27.4%	29.5%	13.3%	13.3%	26.6%
	% of Total	.7%	6.6%	10.5%	7.9%	.4%	.4%	26.6%
Provide House & Lot	Count	4	23	47	30	0	0	104
	% within Conditions for Transferring	3.8%	22.1%	45.2%	28.8%	.0%	.0%	100.0%
	% within City	6.3%	24.2%	22.6%	20.5%	.0%	.0%	19.2%
	% of Total	.7%	4.2%	8.7%	5.5%	.0%	.0%	19.2%
Provide House & Lot with Water & Electricity	Count	40	26	91	62	3	6	228
	% within Conditions for Transferring	17.5%	11.4%	39.9%	27.2%	1.3%	2.6%	100.0%
	% within City	63.5%	27.4%	43.8%	42.5%	20.0%	40.0%	42.1%
	% of Total	7.4%	4.8%	16.8%	11.4%	.6%	1.1%	42.1%
Provide Employment & Source of Income	Count	15	9	12	11	10	7	64
	% within Conditions for Transferring	23.4%	14.1%	18.8%	17.2%	15.6%	10.9%	100.0%
	% within City	23.8%	9.5%	5.8%	7.5%	66.7%	46.7%	11.8%
	% of Total	2.8%	1.7%	2.2%	2.0%	1.8%	1.3%	11.8%
Accessible Relocation Site	Count	0	1	1	0	0	0	2
	% within Conditions for Transferring	.0%	50.0%	50.0%	.0%	.0%	.0%	100.0%
	% within City	.0%	1.1%	.5%	.0%	.0%	.0%	.4%
	% of Total	.0%	.2%	.2%	.0%	.0%	.0%	.4%



Description	City						Total
	Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Count	63	95	208	146	15	15	542
% within Conditions for Transferring	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 12 - MAIN SOURCE OF INCOME

Description		City						Total	
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig		
Main Source of Income	Selling	Count	28	16	64	35	5	5	153
		% within Main Source of Income	18.3%	10.5%	41.8%	22.9%	3.3%	3.3%	100.0%
		% within City	44.4%	16.8%	30.8%	24.0%	33.3%	33.3%	28.2%
		% of Total	5.2%	3.0%	11.8%	6.5%	.9%	.9%	28.2%
	Services	Count	11	29	25	21	0	1	87
		% within Main Source of Income	12.6%	33.3%	28.7%	24.1%	.0%	1.1%	100.0%
		% within City	17.5%	30.5%	12.0%	14.4%	.0%	6.7%	16.1%
		% of Total	2.0%	5.4%	4.6%	3.9%	.0%	.2%	16.1%
	Salaried	Count	22	48	111	88	8	9	286
		% within Main Source of Income	7.7%	16.8%	38.8%	30.8%	2.8%	3.1%	100.0%
% within City		34.9%	50.5%	53.4%	60.3%	53.3%	60.0%	52.8%	
% of Total		4.1%	8.9%	20.5%	16.2%	1.5%	1.7%	52.8%	
Others	Count	2	2	8	1	2	0	15	
	% within Main Source of Income	13.3%	13.3%	53.3%	6.7%	13.3%	.0%	100.0%	
	% within City	3.2%	2.1%	3.8%	.7%	13.3%	.0%	2.8%	
	% of Total	.4%	.4%	1.5%	.2%	.4%	.0%	2.8%	
None	Count	0	0	0	1	0	0	1	
	% within Main Source of Income	.0%	.0%	.0%	100.0%	.0%	.0%	100.0%	
	% within City	.0%	.0%	.0%	.7%	.0%	.0%	.2%	
	% of Total	.0%	.0%	.0%	.2%	.0%	.0%	.2%	
Total	Count	63	95	208	146	15	15	542	
	% within Main Source of Income	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%	
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%	

TABLE 13 -- ESTIMATED MONTHLY INCOME

Description		City						Total	
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig		
Calculated Monthly Income	Less than Php 1,000	Count	10	1	9	3	0	0	23
	% within Monthly Income		43.5%	4.3%	39.1%	13.0%	.0%	.0%	100.0%
	% within City		15.9%	1.1%	4.3%	2.1%	.0%	.0%	4.2%
	% of Total		1.8%	.2%	1.7%	.6%	.0%	.0%	4.2%
Php 1,000 - 4,999	Count		34	44	79	58	3	4	222
	% within Monthly Income		15.3%	19.8%	35.6%	26.1%	1.4%	1.8%	100.0%
	% within City		54.0%	46.3%	38.0%	39.7%	20.0%	26.7%	41.0%
	% of Total		6.3%	8.1%	14.6%	10.7%	.6%	.7%	41.0%
Php 5,000 - 9,999	Count		16	34	77	59	7	6	199
	% within Monthly Income		8.0%	17.1%	38.7%	29.6%	3.5%	3.0%	100.0%
	% within City		25.4%	35.8%	37.0%	40.4%	46.7%	40.0%	36.7%
	% of Total		3.0%	6.3%	14.2%	10.9%	1.3%	1.1%	36.7%
Php 10,000 - 14,999	Count		1	10	19	17	1	2	50
	% within Monthly Income		2.0%	20.0%	38.0%	34.0%	2.0%	4.0%	100.0%
	% within City		1.6%	10.5%	9.1%	11.6%	6.7%	13.3%	9.2%
	% of Total		.2%	1.8%	3.5%	3.1%	.2%	.4%	9.2%
Php 15,000 - 20,000	Count		0	0	11	5	0	0	16
	% within Monthly Income		.0%	.0%	68.8%	31.3%	.0%	.0%	100.0%
	% within City		.0%	.0%	5.3%	3.4%	.0%	.0%	3.0%
	% of Total		.0%	.0%	2.0%	.9%	.0%	.0%	3.0%
More than Php 20,000	Count		2	6	13	4	4	3	32
	% within Monthly Income		6.3%	18.8%	40.6%	12.5%	12.5%	9.4%	100.0%
	% within City		3.2%	6.3%	6.3%	2.7%	26.7%	20.0%	5.9%
	% of Total		.4%	1.1%	2.4%	.7%	.7%	.6%	5.9%

Description	City						Total
	Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Total							
Count	63	95	208	146	15	15	542
% within Calculated	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
Monthly Income	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
% within City	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
% of Total							

TABLE 14 - SUFFICIENCY OF THE INCOME

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
If Income Sufficient	Yes	Count	46	113	66	8	9	266
		% within If Income Sufficient	17.3%	42.5%	24.8%	3.0%	3.4%	100.0%
		% within City	48.4%	54.3%	45.2%	53.3%	60.0%	49.1%
		% of Total	8.5%	20.8%	12.2%	1.5%	1.7%	49.1%
	No	Count	49	95	80	7	6	276
		% within If Income Sufficient	17.8%	34.4%	29.0%	2.5%	2.2%	100.0%
		% within City	51.6%	45.7%	54.8%	46.7%	40.0%	50.9%
		% of Total	9.0%	17.5%	14.8%	1.3%	1.1%	50.9%
Total		Count	95	208	146	15	15	542
		% within If Income Sufficient	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
		% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
		% of Total	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 15 – MEANS TO MEET THE NECESSARY EXPENSES

Description		City						Total
		Calabocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
If not, what would you do to meet the necessary expenses?	Not Applicable							
	Count	24	45	113	66	8	9	265
	% within If not, what would you do to meet the necessary expenses?	9.1%	17.0%	42.6%	24.9%	3.0%	3.4%	100.0%
	% within City	38.1%	47.4%	54.3%	45.2%	53.3%	60.0%	48.9%
	% of Total	4.4%	8.3%	20.8%	12.2%	1.5%	1.7%	48.9%
Borrow from relatives	Count	13	27	42	46	3	1	132
	% within If not, what would you do to meet the necessary expenses?	9.8%	20.5%	31.8%	34.8%	2.3%	.8%	100.0%
	% within City	20.6%	28.4%	20.2%	31.5%	20.0%	6.7%	24.4%
	% of Total	2.4%	5.0%	7.7%	8.5%	.6%	.2%	24.4%
Borrow from friends	Count	8	9	27	11	2	2	59
	% within If not, what would you do to meet the necessary expenses?	13.6%	15.3%	45.8%	18.6%	3.4%	3.4%	100.0%
	% within City	12.7%	9.5%	13.0%	7.5%	13.3%	13.3%	10.9%
	% of Total	1.5%	1.7%	5.0%	2.0%	.4%	.4%	10.9%
Borrow from 5-6	Count	9	4	13	16	0	2	44
	% within If not, what would you do to meet the necessary expenses?	20.5%	9.1%	29.5%	36.4%	.0%	4.5%	100.0%
	% within City	14.3%	4.2%	6.3%	11.0%	.0%	13.3%	8.1%
	% of Total	1.7%	.7%	2.4%	3.0%	.0%	.4%	8.1%
Use what is kept	Count	3	6	8	2	2	1	22
	% within If not, what would you do to meet the necessary expenses?	13.6%	27.3%	36.4%	9.1%	9.1%	4.5%	100.0%
	% within City	4.8%	6.3%	3.8%	1.4%	13.3%	6.7%	4.1%
	% of Total	.6%	1.1%	1.5%	.4%	.4%	.2%	4.1%

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Others	Count	6	4	5	5	0	0	20
	% within If not, what would you do to meet the necessary expenses?	30.0%	20.0%	25.0%	25.0%	.0%	.0%	100.0%
	% within City	9.5%	4.2%	2.4%	3.4%	.0%	.0%	3.7%
	% of Total	1.1%	.7%	.9%	.9%	.0%	.0%	3.7%
Total	Count	63	95	208	146	15	15	542
	% within If not, what would you do to meet the necessary expenses?	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 16 - ROOFING MATERIALS

Description		City						Total
Roofing Materials	G.I. Sheet	Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	Total
	Count	61	94	198	140	14	14	521
	% within Roofing Materials	11.7%	18.0%	38.0%	26.9%	2.7%	2.7%	100.0%
	% within City	96.8%	98.9%	95.2%	95.9%	93.3%	93.3%	96.1%
	% of Total	11.3%	17.3%	36.5%	25.8%	2.6%	2.6%	96.1%
Plywood	Count	1	1	9	5	1	0	17
	% within Roofing Materials	5.9%	5.9%	52.9%	29.4%	5.9%	.0%	100.0%
	% within City	1.6%	1.1%	4.3%	3.4%	6.7%	.0%	3.1%
	% of Total	.2%	.2%	1.7%	.9%	.2%	.0%	3.1%
Cement	Count	1	0	1	1	0	1	4
	% within Roofing Materials	25.0%	.0%	25.0%	25.0%	.0%	25.0%	100.0%
	% within City	1.6%	.0%	.5%	.7%	.0%	6.7%	.7%
	% of Total	.2%	.0%	.2%	.2%	.0%	.2%	.7%
Total	Count	63	95	208	146	15	15	542
	% within Roofing Materials	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%



TABLE 17 - WALLING MATERIALS

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Walling Materials	G.I. Sheet	Count	4	0	1	2	0	7
	Walling Materials							
	% within City	57.1%	.0%	14.3%	28.6%	.0%	.0%	100.0%
	% of Total	6.3%	.0%	.5%	1.4%	.0%	.0%	1.3%
Box								
	Count	4	0	1	0	0	0	5
	Walling Materials	80.0%	.0%	20.0%	.0%	.0%	.0%	100.0%
	% within City	6.3%	.0%	.5%	.0%	.0%	.0%	.9%
Plywood								
	Count	23	25	76	21	5	1	151
	Walling Materials	15.2%	16.6%	50.3%	13.9%	3.3%	.7%	100.0%
	% within City	36.5%	26.3%	36.5%	14.4%	33.3%	6.7%	27.9%
Cement								
	Count	20	37	90	80	10	14	251
	Walling Materials	8.0%	14.7%	35.9%	31.9%	4.0%	5.6%	100.0%
	% within City	31.7%	38.9%	43.3%	54.8%	66.7%	93.3%	46.3%
Bamboo								
	Count	1	0	2	1	0	0	4
	Walling Materials	25.0%	.0%	50.0%	25.0%	.0%	.0%	100.0%
	% within City	1.6%	.0%	1.0%	.7%	.0%	.0%	.7%
Wood								
	Count	9	3	10	8	0	0	30
	Walling Materials	30.0%	10.0%	33.3%	26.7%	.0%	.0%	100.0%
	% within City	14.3%	3.2%	4.8%	5.5%	.0%	.0%	5.5%
	% of Total	1.7%	.6%	1.8%	1.5%	.0%	.0%	5.5%

	Others	Count Walling Materials % within City % of Total	2 2.1% 3.2% .4%	30 31.9% 31.6% 5.5%	28 29.8% 13.5% 5.2%	34 36.2% 23.3% 6.3%	0 .0% .0% .0%	0 .0% .0% .0%	94 100.0% 17.3% 17.3%
Total		Count Walling Materials % within City % of Total	63 11.6% 100.0% 11.6%	95 17.5% 100.0% 17.5%	208 38.4% 100.0% 38.4%	146 26.9% 100.0% 26.9%	15 2.8% 100.0% 2.8%	15 2.8% 100.0% 2.8%	542 100.0% 100.0% 100.0%

TABLE 18 - OWNERSHIP OF THE HOUSE

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Ownership of the House	Owner							
	Count	21	37	85	39	3	10	195
	% within Ownership of the House	10.8%	19.0%	43.6%	20.0%	1.5%	5.1%	100.0%
	% within City	33.3%	38.9%	40.9%	26.7%	20.0%	66.7%	36.0%
	% of Total	3.9%	6.8%	15.7%	7.2%	.6%	1.8%	36.0%
Renting	Count	28	26	75	56	9	3	197
	% within Ownership of the House	14.2%	13.2%	38.1%	28.4%	4.6%	1.5%	100.0%
	% within City	44.4%	27.4%	36.1%	38.4%	60.0%	20.0%	36.3%
	% of Total	5.2%	4.8%	13.8%	10.3%	1.7%	.6%	36.3%
Free-Occupant	Count	14	32	48	51	3	2	150
	% within Ownership of the House	9.3%	21.3%	32.0%	34.0%	2.0%	1.3%	100.0%
	% within City	22.2%	33.7%	23.1%	34.9%	20.0%	13.3%	27.7%
	% of Total	2.6%	5.9%	8.9%	9.4%	.6%	.4%	27.7%
Total	Count	63	95	208	146	15	15	542
	% within Ownership of the House	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 19 - OWNERSHIP OF THE LOT

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Ownership of the Lot	Owner							
	Count	18	6	58	19	3	8	112
	% within Ownership of the Lot	16.1%	5.4%	51.8%	17.0%	2.7%	7.1%	100.0%
	% within City	28.6%	6.3%	27.9%	13.0%	20.0%	53.3%	20.7%
	% of Total	3.3%	1.1%	10.7%	3.5%	.6%	1.5%	20.7%
Renting	Count	28	26	74	56	7	3	194
	% within Ownership of the Lot	14.4%	13.4%	38.1%	28.9%	3.6%	1.5%	100.0%
	% within City	44.4%	27.4%	35.6%	38.4%	46.7%	20.0%	35.8%
	% of Total	5.2%	4.8%	13.7%	10.3%	1.3%	.6%	35.8%
Free-Occupant	Count	17	63	76	71	5	4	236
	% within Ownership of the Lot	7.2%	26.7%	32.2%	30.1%	2.1%	1.7%	100.0%
	% within City	27.0%	66.3%	36.5%	48.6%	33.3%	26.7%	43.5%
	% of Total	3.1%	11.6%	14.0%	13.1%	.9%	.7%	43.5%
Total	Count	63	95	208	146	15	15	542
	% within Ownership of the Lot	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 20 - FLOOR AREA

Description		City						Total	
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig		
Floor area	10 - 19 sq.m	Count	42	51	25	1	0	129	
		% within Floor area	32.6%	39.5%	19.4%	.8%	.0%	100.0%	
		% within City	44.2%	24.5%	17.1%	6.7%	.0%	23.8%	
		% of Total	1.8%	9.4%	4.6%	.2%	.0%	23.8%	
20 - 30 sq.m	Count	42	28	81	74	6	9	240	
		% within Floor area	17.5%	11.7%	30.8%	2.5%	3.8%	100.0%	
		% within City	66.7%	29.5%	50.7%	40.0%	60.0%	44.3%	
		% of Total	7.7%	5.2%	13.7%	1.1%	1.7%	44.3%	
31 - 50 sq.m	Count	9	13	40	28	1	3	94	
		% within Floor area	9.6%	13.8%	42.6%	29.8%	1.1%	100.0%	
		% within City	14.3%	13.7%	19.2%	19.2%	6.7%	17.3%	
		% of Total	1.7%	2.4%	7.4%	5.2%	.2%	17.3%	
70 - 100 sq.m	Count	2	8	25	18	5	3	61	
		% within Floor area	3.3%	13.1%	41.0%	29.5%	8.2%	100.0%	
		% within City	3.2%	8.4%	12.0%	12.3%	33.3%	11.3%	
		% of Total	.4%	1.5%	4.6%	3.3%	.9%	11.3%	
100 - 200 sq.m	Count	0	4	11	0	2	0	17	
		% within Floor area	.0%	23.5%	64.7%	.0%	11.8%	100.0%	
		% within City	.0%	4.2%	5.3%	.0%	13.3%	3.1%	
		% of Total	.0%	.7%	2.0%	.0%	.4%	3.1%	
More than 200 sq.m	Count	0	0	0	1	0	0	1	
		% within Floor area	.0%	.0%	.0%	100.0%	.0%	100.0%	
		% within City	.0%	.0%	.0%	.7%	.0%	.2%	
		% of Total	.0%	.0%	.0%	.2%	.0%	.2%	
Total	Count	63	95	208	146	15	15	542	
		% within Floor area	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
		% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
		% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 21 - LOT AREA

Lot area	Description	City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
10 sq.m	Count	8	42	50	32	1	0	133
	% within Lot area	6.0%	31.6%	37.6%	24.1%	.8%	.0%	100.0%
	% within City	12.7%	44.2%	24.0%	21.9%	6.7%	.0%	24.5%
20 - 30 sq.m	% of Total	1.5%	7.7%	9.2%	5.9%	.2%	.0%	24.5%
	Count	37	27	64	65	4	9	206
	% within Lot area	18.0%	13.1%	31.1%	31.6%	1.9%	4.4%	100.0%
50 sq.m	% within City	58.7%	28.4%	30.8%	44.5%	26.7%	60.0%	38.0%
	% of Total	6.8%	5.0%	11.8%	12.0%	.7%	1.7%	38.0%
	Count	12	13	43	26	2	2	98
70 - 100 sq.m	% within Lot area	12.2%	13.3%	43.9%	26.5%	2.0%	2.0%	100.0%
	% within City	19.0%	13.7%	20.7%	17.8%	13.3%	13.3%	18.1%
	% of Total	2.2%	2.4%	7.9%	4.8%	.4%	.4%	18.1%
100 - 200 sq.m	Count	5	5	34	15	3	3	65
	% within Lot area	7.7%	7.7%	52.3%	23.1%	4.6%	4.6%	100.0%
	% within City	7.9%	5.3%	16.3%	10.3%	20.0%	20.0%	12.0%
200 - 500 sq.m	% of Total	.9%	.9%	6.3%	2.8%	.6%	.6%	12.0%
	Count	0	7	13	6	2	1	29
	% within Lot area	.0%	24.1%	44.8%	20.7%	6.9%	3.4%	100.0%
More than 200	% within City	.0%	7.4%	6.3%	4.1%	13.3%	6.7%	5.4%
	% of Total	.0%	1.3%	2.4%	1.1%	.4%	.2%	5.4%
	Count	1	1	3	1	2	0	8
More than 200	% within Lot area	12.5%	12.5%	37.5%	12.5%	25.0%	.0%	100.0%
	% within City	1.6%	1.1%	1.4%	.7%	13.3%	.0%	1.5%
	% of Total	.2%	.2%	.6%	.2%	.4%	.0%	1.5%
More than 200	Count	0	0	1	1	1	0	3

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
sq.m	% within Lot area	.0%	.0%	33.3%	33.3%	33.3%	.0%	100.0%
	% within City	.0%	.0%	.5%	.7%	6.7%	.0%	.6%
	% of Total	.0%	.0%	.2%	.2%	.2%	.0%	.6%
Total	Count	63	95	208	146	15	15	542
	% within Lot area	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 22 - NUMBER OF ROOMS

Description		City						Total	
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig		
Number of Rooms	Single Room	Count	49	69	126	80	6	8	338
		% within Rooms	14.5%	20.4%	37.3%	23.7%	1.8%	2.4%	100.0%
		% within City	77.8%	72.6%	60.6%	54.8%	40.0%	53.3%	62.4%
		% of Total	9.0%	12.7%	23.2%	14.8%	1.1%	1.5%	62.4%
	Double Room	Count	14	20	56	53	5	4	152
		% within Rooms	9.2%	13.2%	36.8%	34.9%	3.3%	2.6%	100.0%
		% within City	22.2%	21.1%	26.9%	36.3%	33.3%	26.7%	28.0%
		% of Total	2.6%	3.7%	10.3%	9.8%	.9%	.7%	28.0%
	Triple Room	Count	0	6	16	8	2	3	35
		% within Rooms	.0%	17.1%	45.7%	22.9%	5.7%	8.6%	100.0%
		% within City	.0%	6.3%	7.7%	5.5%	13.3%	20.0%	6.5%
		% of Total	.0%	1.1%	3.0%	1.5%	.4%	.6%	6.5%
Quadruple Room	Count	0	0	5	2	2	0	9	
	% within Rooms	.0%	.0%	55.6%	22.2%	22.2%	.0%	100.0%	
	% within City	.0%	.0%	2.4%	1.4%	13.3%	.0%	1.7%	
	% of Total	.0%	.0%	.9%	.4%	.4%	.0%	1.7%	
Quintuple Room	Count	0	0	5	3	0	0	8	
	% within Rooms	.0%	.0%	62.5%	37.5%	.0%	.0%	100.0%	
	% within City	.0%	.0%	2.4%	2.1%	.0%	.0%	1.5%	
	% of Total	.0%	.0%	.9%	.6%	.0%	.0%	1.5%	
Total	Count	63	95	208	146	15	15	542	
	% within Rooms	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%	
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%	



TABLE 23 - TYPE OF TOILET

Description		City							Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig		
Type of Toilet	Flush Toilet	Count	5	15	27	14	6	3	70
		% within Type of Toilet	7.1%	21.4%	38.6%	20.0%	8.6%	4.3%	100.0%
		% within City	7.9%	15.8%	13.0%	9.6%	40.0%	20.0%	12.9%
		% of Total	.9%	2.8%	5.0%	2.6%	1.1%	.6%	12.9%
Water Sealed		Count	53	72	169	124	9	12	439
		% within Type of Toilet	12.1%	16.4%	38.5%	28.2%	2.1%	2.7%	100.0%
		% within City	84.1%	75.8%	81.3%	84.9%	60.0%	80.0%	81.0%
		% of Total	9.8%	13.3%	31.2%	22.9%	1.7%	2.2%	81.0%
Hole in the ground		Count	3	3	4	1	0	0	11
		% within Type of Toilet	27.3%	27.3%	36.4%	9.1%	.0%	.0%	100.0%
		% within City	4.8%	3.2%	1.9%	.7%	.0%	.0%	2.0%
		% of Total	.6%	.6%	.7%	.2%	.0%	.0%	2.0%
Anywhere		Count	2	5	0	7	0	0	14
		% within Type of Toilet	14.3%	35.7%	.0%	50.0%	.0%	.0%	100.0%
		% within City	3.2%	5.3%	.0%	4.8%	.0%	.0%	2.6%
		% of Total	.4%	.9%	.0%	1.3%	.0%	.0%	2.6%
River		Count	0	0	8	0	0	0	8
		% within Type of Toilet	.0%	.0%	100.0%	.0%	.0%	.0%	100.0%
		% within City	.0%	.0%	3.8%	.0%	.0%	.0%	1.5%
		% of Total	.0%	.0%	1.5%	.0%	.0%	.0%	1.5%
Total		Count	63	95	208	146	15	15	542
		% within Type of Toilet	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
		% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
		% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 24 - CHANGES IN WATER IN THE ESTERO/CREEK FOR THE PAST 10 YEARS

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
For the past 10 years, are there changes in your water in the estero/creek?	There Is	Count	72	171	126	1	15	426
		% within 10 years, are there changes in your water in the estero/creek?	16.9%	40.1%	29.6%	.2%	3.5%	100.0%
		% within City	75.8%	82.2%	86.3%	6.7%	100.0%	78.6%
		% of Total	13.3%	31.5%	23.2%	.2%	2.8%	78.6%
None	Count	22	23	37	20	14	0	116
		% within 10 years, are there changes in your water in the estero/creek?	19.8%	31.9%	17.2%	12.1%	.0%	100.0%
		% within City	24.2%	17.8%	13.7%	93.3%	.0%	21.4%
		% of Total	4.1%	6.8%	3.7%	2.6%	.0%	21.4%
Total	Count	63	95	208	146	15	15	542
		% within 10 years, are there changes in your water in the estero/creek?	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
		% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
		% of Total	11.6%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 24 - CHANGES IN WATER IN THE ESTERO/CREEK FOR THE PAST 10 YEARS

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
For the past 10 years, are there changes in your water in the estero/creek?	There Is	Count						
		41	72	171	126	1	15	426
	% within 10 years, are there changes in your water in the estero/creek?	9.6%	16.9%	40.1%	29.6%	.2%	3.5%	100.0%
	% within City	65.1%	75.8%	82.2%	86.3%	6.7%	100.0%	78.6%
None	% of Total	7.6%	13.3%	31.5%	23.2%	.2%	2.8%	78.6%
	Count	22	23	37	20	14	0	116
	% within 10 years, are there changes in your water in the estero/creek?	19.0%	19.8%	31.9%	17.2%	12.1%	.0%	100.0%
	% within City	34.9%	24.2%	17.8%	13.7%	93.3%	.0%	21.4%
Total	% of Total	4.1%	4.2%	6.8%	3.7%	2.6%	.0%	21.4%
	Count	63	95	208	146	15	15	542
	% within 10 years, are there changes in your water in the estero/creek?	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 25 - REASONS FOR CHANGES IN THE ENVIRONMENT

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
What are the reasons for these changes in the environment?	Pollution							
	Count	20	16	59	29	10	7	141
	% within reasons for these changes in the environment?	14.2%	11.3%	41.8%	20.6%	7.1%	5.0%	100.0%
	% within City % of Total	31.7% 3.7%	16.8% 3.0%	28.4% 10.9%	19.9% 5.4%	66.7% 1.8%	46.7% 1.3%	26.0% 26.0%
	Overpopulation							
	Count	17	32	64	69	1	1	184
	% within reasons for these changes in the environment?	9.2%	17.4%	34.8%	37.5%	.5%	.5%	100.0%
	% within City % of Total	27.0% 3.1%	33.7% 5.9%	30.8% 11.8%	47.3% 12.7%	6.7% 2.2%	6.7% 2.2%	33.9% 33.9%
	Negligence							
	Count	5	18	28	28	1	1	81
	% within reasons for these changes in the environment?	6.2%	22.2%	34.6%	34.6%	1.2%	1.2%	100.0%
	% within City % of Total	7.9% .9%	18.9% 3.3%	13.5% 5.2%	19.2% 5.2%	6.7% 2.2%	6.7% 2.2%	14.9% 14.9%
	Too Much Garbage							
	Count	16	19	47	18	3	6	109
	% within reasons for these changes in the environment?	14.7%	17.4%	43.1%	16.5%	2.8%	5.5%	100.0%
	% within City % of Total	25.4% 3.0%	20.0% 3.5%	22.6% 8.7%	12.3% 3.3%	20.0% .6%	40.0% 1.1%	20.1% 20.1%

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Others	Count	5	0	3	1	0	0	9
	% within reasons for these changes in the environment?	55.6%	.0%	33.3%	11.1%	.0%	.0%	100.0%
	% within City	7.9%	.0%	1.4%	.7%	.0%	.0%	1.7%
	% of Total	.9%	.0%	.6%	.2%	.0%	.0%	1.7%
No Answer	Count	0	10	7	1	0	0	18
	% within reasons for these changes in the environment?	.0%	55.6%	38.9%	5.6%	.0%	.0%	100.0%
	% within City	.0%	10.5%	3.4%	.7%	.0%	.0%	3.3%
	% of Total	.0%	1.8%	1.3%	.2%	.0%	.0%	3.3%
Total	Count	63	95	208	146	15	15	542
	% within reasons for these changes in the environment?	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 26 - FAMILY MEMBERS WHO GOT SICK LAST YEAR

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
In the last year, has anybody been sick in your family caused by water?	Yes, there is	Count	19	41	22	1	2	101
		% within In the last year, has anybody been sick in your family caused by water?	18.8%	40.6%	21.8%	1.0%	2.0%	100.0%
		% within City	20.0%	19.7%	15.1%	6.7%	13.3%	18.6%
		% of Total	3.5%	7.6%	4.1%	.2%	.4%	18.6%
None	Count	47	76	167	124	14	13	441
	% within In the last year, has anybody been sick in your family caused by water?	10.7%	17.2%	37.9%	28.1%	3.2%	2.9%	100.0%
	% within City	74.6%	80.0%	80.3%	84.9%	93.3%	86.7%	81.4%
	% of Total	8.7%	14.0%	30.8%	22.9%	2.6%	2.4%	81.4%
Total	Count	63	95	208	146	15	15	542
	% within In the last year, has anybody been sick in your family caused by water?	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 27 - TYPE OF ILLNESSES

Type of sickness	Description	City						Total
		Calocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Not Applicable	Count	47	76	167	124	14	13	441
	% within sickness	10.7%	17.2%	37.9%	28.1%	3.2%	2.9%	100.0%
	% within City	74.6%	80.0%	80.3%	84.9%	93.3%	86.7%	81.4%
	% of Total	8.7%	14.0%	30.8%	22.9%	2.6%	2.4%	81.4%
Diarrhea	Count	9	10	26	14	1	2	62
	% within sickness	14.5%	16.1%	41.9%	22.6%	1.6%	3.2%	100.0%
	% within City	14.3%	10.5%	12.5%	9.6%	6.7%	13.3%	11.4%
	% of Total	1.7%	1.8%	4.8%	2.6%	.2%	.4%	11.4%
Cholera	Count	1	0	4	0	0	0	5
	% within sickness	20.0%	.0%	80.0%	.0%	.0%	.0%	100.0%
	% within City	1.6%	.0%	1.9%	.0%	.0%	.0%	.9%
	% of Total	.2%	.0%	.7%	.0%	.0%	.0%	.9%
Typhoid Fever	Count	4	9	10	6	0	0	29
	% within sickness	13.8%	31.0%	34.5%	20.7%	.0%	.0%	100.0%
	% within City	6.3%	9.5%	4.8%	4.1%	.0%	.0%	5.4%
	% of Total	.7%	1.7%	1.8%	1.1%	.0%	.0%	5.4%
Malaria	Count	1	0	1	0	0	0	2
	% within sickness	50.0%	.0%	50.0%	.0%	.0%	.0%	100.0%
	% within City	1.6%	.0%	.5%	.0%	.0%	.0%	.4%
	% of Total	.2%	.0%	.2%	.0%	.0%	.0%	.4%
Others	Count	1	0	0	2	0	0	3
	% within sickness	33.3%	.0%	.0%	66.7%	.0%	.0%	100.0%
	% within City	1.6%	.0%	.0%	1.4%	.0%	.0%	.6%
	% of Total	.2%	.0%	.0%	.4%	.0%	.0%	.6%

Description	City						Total
	Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Count	63	95	208	146	15	15	542
% within Type of sickness	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%



TABLE 28 - EXPERIENCE IN FLOODING FOR THE PAST FIVE YEARS

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
In the past five years have you experienced flooding and damages?	Yes	Count 61	81	118	90	15	15	380
	% within In the past five years have you experienced flooding and damages? % within City	16.1%	21.3%	31.1%	23.7%	3.9%	3.9%	100.0%
	% of Total	96.8%	85.3%	56.7%	61.6%	100.0%	100.0%	70.1%
No	Count	2	14	90	56	0	0	162
	% within In the past five years have you experienced flooding and damages? % within City	1.2%	8.6%	55.6%	34.6%	.0%	.0%	100.0%
	% of Total	3.2%	14.7%	43.3%	38.4%	.0%	.0%	29.9%
Total	Count	63	95	208	146	15	15	542
	% within In the past five years have you experienced flooding and damages? % within City	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% of Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
		11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 29 - AFFECTED OR DAMAGED DUE TO FLOOD

Description		City						Total
		Calocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
What was affected or damaged?	Not Applicable	Count						
		2	14	90	56	0	0	162
	% within affected or damaged?	1.2%	8.6%	55.6%	34.6%	.0%	.0%	100.0%
	% within City	3.2%	14.7%	43.3%	38.4%	.0%	.0%	29.9%
	% of Total	.4%	2.6%	16.6%	10.3%	.0%	.0%	29.9%
Human Damage	Count	1	7	22	6	0	1	37
	% within affected or damaged?	2.7%	18.9%	59.5%	16.2%	.0%	2.7%	100.0%
	% within City	1.6%	7.4%	10.6%	4.1%	.0%	6.7%	6.8%
	% of Total	.2%	1.3%	4.1%	1.1%	.0%	.2%	6.8%
Material Damage	Count	6	1	9	1	0	2	19
	% within affected or damaged?	31.6%	5.3%	47.4%	5.3%	.0%	10.5%	100.0%
	% within City	9.5%	1.1%	4.3%	.7%	.0%	13.3%	3.5%
	% of Total	1.1%	.2%	1.7%	.2%	.0%	.4%	3.5%
Human and Material Damage	Count	48	38	48	63	6	4	207
	% within affected or damaged?	23.2%	18.4%	23.2%	30.4%	2.9%	1.9%	100.0%
	% within City	76.2%	40.0%	23.1%	43.2%	40.0%	26.7%	38.2%
	% of Total	8.9%	7.0%	8.9%	11.6%	1.1%	.7%	38.2%
None	Count	6	35	39	20	9	8	117
	% within affected or damaged?	5.1%	29.9%	33.3%	17.1%	7.7%	6.8%	100.0%
	% within City	9.5%	36.8%	18.8%	13.7%	60.0%	53.3%	21.6%
	% of Total	1.1%	6.5%	7.2%	3.7%	1.7%	1.5%	21.6%

Description	City						Total
	Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Count	63	95	208	146	15	15	542
% within What was affected or damaged?	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 30 - IF FLOODING COULD STILL BE MITIGATED

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Do you think flooding could be mitigated?	Yes	Count	69	163	118	13	15	411
		% within flooding mitigated?	16.8%	39.7%	28.7%	3.2%	3.6%	100.0%
		% within City	72.6%	78.4%	80.8%	86.7%	100.0%	75.8%
		% of Total	12.7%	30.1%	21.8%	2.4%	2.8%	75.8%
No	Count	30	26	45	28	2	0	131
	% within flooding mitigated?	22.9%	19.8%	34.4%	21.4%	1.5%	0%	100.0%
	% within City	47.6%	27.4%	21.6%	19.2%	13.3%	0%	24.2%
	% of Total	5.5%	4.8%	8.3%	5.2%	4%	0%	24.2%
Total	Count	63	95	208	146	15	15	542
	% within flooding mitigated?	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 31 - PERCEIVED CAUSES OF FLOODING

Causes of Flooding	Description	City						Total
		Calabocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Too Much Rain	Count	2	7	15	12	1	0	37
	% within Causes of Flooding	5.4%	18.9%	40.5%	32.4%	2.7%	.0%	100.0%
	% within City % of Total	3.2% .4%	7.4% 1.3%	7.2% 2.8%	8.2% 2.2%	6.7% .2%	.0% .0%	6.8% 6.8%
Low Elevation of the Area	Count	13	4	37	11	9	3	77
	% within Causes of Flooding	16.9%	5.2%	48.1%	14.3%	11.7%	3.9%	100.0%
	% within City % of Total	20.6% 2.4%	4.2% .7%	17.8% 6.8%	7.5% 2.0%	60.0% 1.7%	20.0% .6%	14.2% 14.2%
Narrowed Drainage	Count	3	14	31	23	3	2	76
	% within Causes of Flooding	3.9%	18.4%	40.8%	30.3%	3.9%	2.6%	100.0%
	% within City % of Total	4.8% .6%	14.7% 2.6%	14.9% 5.7%	15.8% 4.2%	20.0% .6%	13.3% .4%	14.0% 14.0%
Large Volume of Waste in the Estero	Count	41	66	118	100	2	10	337
	% within Causes of Flooding	12.2%	19.6%	35.0%	29.7%	.6%	3.0%	100.0%
	% within City % of Total	65.1% 7.6%	69.5% 12.2%	56.7% 21.8%	68.5% 18.5%	13.3% .4%	66.7% 1.8%	62.2% 62.2%
Natural Calamity	Count	1	4	5	0	0	0	10
	% within Causes of Flooding	10.0%	40.0%	50.0%	.0%	.0%	.0%	100.0%
	% within City % of Total	1.6% .2%	4.2% .7%	2.4% .9%	.0% .0%	.0% .0%	.0% .0%	1.8% 1.8%

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Others	Count	3	0	2	0	0	0	5
	% within Causes of Flooding	60.0%	.0%	40.0%	.0%	.0%	.0%	100.0%
	% within City	4.8%	.0%	1.0%	.0%	.0%	.0%	.9%
	% of Total	.6%	.0%	.4%	.0%	.0%	.0%	.9%
Total	Count	63	95	208	146	15	15	542
	% within Causes of Flooding	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 32 - PLACE OF GARBAGE DISPOSAL

Description		City						Total	
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig		
Where do you dispose the garbage?	Designated Garbage Collection Area	Count	27	77	140	88	11	15	358
		% within Where do you dispose the garbage?	7.5%	21.5%	39.1%	24.6%	3.1%	4.2%	100.0%
		% within City	42.9%	81.1%	67.3%	60.3%	73.3%	100.0%	66.1%
		% of Total	5.0%	14.2%	25.8%	16.2%	2.0%	2.8%	66.1%
	Infront of the House	Count	12	17	52	55	4	0	140
		% within Where do you dispose the garbage?	8.6%	12.1%	37.1%	39.3%	2.9%	.0%	100.0%
		% within City	19.0%	17.9%	25.0%	37.7%	26.7%	.0%	25.8%
		% of Total	2.2%	3.1%	9.6%	10.1%	.7%	.0%	25.8%
	Anywhere	Count	6	0	14	0	0	0	20
		% within Where do you dispose the garbage?	30.0%	.0%	70.0%	.0%	.0%	.0%	100.0%
% within City		9.5%	.0%	6.7%	.0%	.0%	.0%	3.7%	
% of Total		1.1%	.0%	2.6%	.0%	.0%	.0%	3.7%	
Total	Thrown in the Estero	Count	18	1	2	3	0	0	24
		% within Where do you dispose the garbage?	75.0%	4.2%	8.3%	12.5%	.0%	.0%	100.0%
		% within City	28.6%	1.1%	1.0%	2.1%	.0%	.0%	4.4%
		% of Total	3.3%	.2%	.4%	.6%	.0%	.0%	4.4%
		Count	63	95	208	146	15	15	542
		% within Where do you dispose the garbage?	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
		% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
		% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 33 - PLACE WHERE GARBAGE PUT

Description		City					Total
		Calocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig
Where do you put your garbage?	Plastic Bag	Count					
		43	85	172	124	13	450
	% within Where do you put your garbage?	9.6%	18.9%	38.2%	27.6%	2.9%	100.0%
	% within City	68.3%	89.5%	82.7%	84.9%	86.7%	83.0%
	% of Total	7.9%	15.7%	31.7%	22.9%	2.4%	83.0%
Plastic Container	Count	13	5	29	11	1	61
	% within Where do you put your garbage?	21.3%	8.2%	47.5%	18.0%	1.6%	100.0%
	% within City	20.6%	5.3%	13.9%	7.5%	6.7%	11.3%
	% of Total	2.4%	.9%	5.4%	2.0%	.2%	11.3%
Sack	Count	7	5	7	11	1	31
	% within Where do you put your garbage?	22.6%	16.1%	22.6%	35.5%	3.2%	100.0%
	% within City	11.1%	5.3%	3.4%	7.5%	6.7%	5.7%
	% of Total	1.3%	.9%	1.3%	2.0%	.2%	5.7%
Total	Count	63	95	208	146	15	542
	% within Where do you put your garbage?	11.6%	17.5%	38.4%	26.9%	2.8%	100.0%
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	100.0%



TABLE 34 - WHO COLLECTS THE GARBAGE

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Who collects the garbage?	Not Applicable	Count	5	2	1	8	0	16
		% within Who collects the garbage?	31.3%	12.5%	6.3%	50.0%	.0%	100.0%
		% within City	7.9%	2.1%	.5%	5.5%	.0%	3.0%
		% of Total	.9%	.4%	.2%	1.5%	.0%	3.0%
Municipal	Count	35	77	153	108	3	13	389
	% within Who collects the garbage?	9.0%	19.8%	39.3%	27.8%	.8%	3.3%	100.0%
	% within City	55.6%	81.1%	73.6%	74.0%	20.0%	86.7%	71.8%
	% of Total	6.5%	14.2%	28.2%	19.9%	.6%	2.4%	71.8%
Barangay	Count	13	16	38	28	1	0	96
	% within Who collects the garbage?	13.5%	16.7%	39.6%	29.2%	1.0%	.0%	100.0%
	% within City	20.6%	16.8%	18.3%	19.2%	6.7%	.0%	17.7%
	% of Total	2.4%	3.0%	7.0%	5.2%	.2%	.0%	17.7%
Private Company	Count	10	0	16	2	11	2	41
	% within Who collects the garbage?	24.4%	.0%	39.0%	4.9%	26.8%	4.9%	100.0%
	% within City	15.9%	.0%	7.7%	1.4%	73.3%	13.3%	7.6%
	% of Total	1.8%	.0%	3.0%	.4%	2.0%	.4%	7.6%
Total	Count	63	95	208	146	15	15	542
	% within Who collects the garbage?	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 35- FREQUENCY OF GARBAGE COLLECTION

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
If there is garbage collection, how many times in a week do they collect?	Not Applicable	Count	2	1	8	0	0	16
		% within garbage collection, how many times in a week do they collect?						
		% within City	12.5%	6.3%	50.0%	.0%	.0%	100.0%
		% of Total	7.9%	.5%	5.5%	.0%	.0%	3.0%
Daily	Count	3	93	145	115	0	0	356
	% within garbage collection, how many times in a week do they collect?							
	% within City	.8%	26.1%	40.7%	32.3%	.0%	.0%	100.0%
	% of Total	4.8%	97.9%	69.7%	78.8%	.0%	.0%	65.7%
Once a Week	Count	16	0	9	14	14	15	68
	% within garbage collection, how many times in a week do they collect?							
	% within City	23.5%	.0%	13.2%	20.6%	20.6%	22.1%	100.0%
	% of Total	25.4%	.0%	4.3%	9.6%	93.3%	100.0%	12.5%
Twice a Week	Count	15	0	7	8	0	0	30
	% within garbage collection, how many times in a week do they collect?							
	% within City	50.0%	.0%	23.3%	26.7%	.0%	.0%	100.0%
	% of Total	23.8%	.0%	3.4%	5.5%	.0%	.0%	5.5%
		2.8%	.0%	1.3%	1.5%	.0%	.0%	5.5%

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Trice a Week	Count	15	0	26	1	0	0	42
	% within If there is garbage collection, how many times in a week do they collect?	35.7%	.0%	61.9%	2.4%	.0%	.0%	100.0%
	% within City	23.8%	.0%	12.5%	.7%	.0%	.0%	7.7%
	% of Total	2.8%	.0%	4.8%	.2%	.0%	.0%	7.7%
	Count	3	0	1	0	0	0	4
	% within If there is garbage collection, how many times in a week do they collect?	75.0%	.0%	25.0%	.0%	.0%	.0%	100.0%
	% within City	4.8%	.0%	.5%	.0%	.0%	.0%	.7%
	% of Total	.6%	.0%	.2%	.0%	.0%	.0%	.7%
	Count	6	0	19	0	1	0	26
	% within If there is garbage collection, how many times in a week do they collect?	23.1%	.0%	73.1%	.0%	3.8%	.0%	100.0%
Total	% within City	9.5%	.0%	9.1%	.0%	6.7%	.0%	4.8%
	% of Total	1.1%	.0%	3.5%	.0%	.2%	.0%	4.8%
	Count	63	95	208	146	15	15	542
	% within If there is garbage collection, how many times in a week do they collect?	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 36 - KNOWLEDGE ABOUT THE LAW OF GARBAGE DISPOSAL

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Do you know that there is a law for the disposal of garbage?	Aware							
	Count	48	95	194	143	12	13	505
	% within that there is a law for the disposal of garbage?	9.5%	18.8%	38.4%	28.3%	2.4%	2.6%	100.0%
	% within City	76.2%	100.0%	93.3%	97.9%	80.0%	86.7%	93.2%
Not Aware	Count	15	0	14	3	3	2	37
	% within that there is a law for the disposal of garbage?	40.5%	.0%	37.8%	8.1%	8.1%	5.4%	100.0%
	% within City	23.8%	.0%	6.7%	2.1%	20.0%	13.3%	6.8%
	% of Total	2.8%	.0%	2.6%	.6%	.6%	.4%	6.8%
Total	Count	63	95	208	146	15	15	542
	% within that there is a law for the disposal of garbage?	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 37 - KNOWLEDGE ABOUT THE LAW OF WASTE REDUCTION

Description		City						Total
		Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Do you know that there is a law on waste reduction?	Aware							
	Count	33	92	163	144	8	5	445
	% within there is a law on waste reduction?	7.4%	20.7%	36.6%	32.4%	1.8%	1.1%	100.0%
	% within City	52.4%	96.8%	78.4%	98.6%	53.3%	33.3%	82.1%
Not aware	% of Total	6.1%	17.0%	30.1%	26.6%	1.5%	.9%	82.1%
	Count	30	3	45	2	7	10	97
	% within there is a law on waste reduction?	30.9%	3.1%	46.4%	2.1%	7.2%	10.3%	100.0%
	% within City	47.6%	3.2%	21.6%	1.4%	46.7%	66.7%	17.9%
Total	% of Total	5.5%	.6%	8.3%	.4%	1.3%	1.8%	17.9%
	Count	63	95	208	146	15	15	542
	% within there is a law on waste reduction?	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
	% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

TABLE 38 - WILLINGNESS TO JOIN PILOT PROJECTS FOR RECYCLING VALUABLE WASTES

Description		City						Total
		Calocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Are you willing to join if pilot projects for recycling valuable waste be implemented?	Yes, if economical	Count 24	29	57	37	8	6	161
	% within Are you willing to join if pilot projects for recycling valuable waste be implemented?	14.9%	18.0%	35.4%	23.0%	5.0%	3.7%	100.0%
	% within City % of Total	38.1% 4.4%	30.5% 5.4%	27.4% 10.5%	25.3% 6.8%	53.3% 1.5%	40.0% 1.1%	29.7% 29.7%
Yes, if beneficial	Count	30	58	130	98	6	6	328
	% within Are you willing to join if pilot projects for recycling valuable waste be implemented?	9.1%	17.7%	39.6%	29.9%	1.8%	1.8%	100.0%
	% within City % of Total	47.6% 5.5%	61.1% 10.7%	62.5% 24.0%	67.1% 18.1%	40.0% 1.1%	40.0% 1.1%	60.5% 60.5%
Yes, just to help	Count	6	7	16	8	0	0	37
	% within Are you willing to join if pilot projects for recycling valuable waste be implemented?	16.2%	18.9%	43.2%	21.6%	.0%	.0%	100.0%
	% within City % of Total	9.5% 1.1%	7.4% 1.3%	7.7% 3.0%	5.5% 1.5%	.0% .0%	.0% .0%	6.8% 6.8%
No, if not economical	Count	3	1	5	3	1	3	16
	% within Are you willing to join if pilot projects for recycling valuable waste be implemented?	18.8%	6.3%	31.3%	18.8%	6.3%	18.8%	100.0%
	% within City % of Total	4.8% .6%	1.1% .2%	2.4% .9%	2.1% .6%	6.7% .2%	20.0% .6%	3.0% 3.0%

Description	City						Total
	Caloocan City	Makati City	Manila City	Pasay City	Quezon City	Taguig	
Total	63	95	208	146	15	15	542
% within Are you willing to join if pilot projects for recycling valuable waste be implemented?	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%
% within City	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
% of Total	11.6%	17.5%	38.4%	26.9%	2.8%	2.8%	100.0%

*Mail Survey*



## Questionnaire for Organizations/Institutions/Companies

No. \_\_\_\_\_ Date of Forwarding this questionnaire: \_\_\_\_\_ 2004  
City: Manila/ Makati/Pasay/Caloocan/Quezon/Taguig  
Barangay: \_\_\_\_\_  
Name of Organization: \_\_\_\_\_  
Type of Business: \_\_\_\_\_  
The Total Number of Your Employees: \_\_\_\_\_ Employees  
(Name of the Respondent, if possible): \_\_\_\_\_  
Title/Position: \_\_\_\_\_  
Location/Type of Building (Office): \_\_\_\_\_  
Approximate Floor Space: \_\_\_\_\_

**(Please encircle your answers where applicable)**

### I. ON ENVIRONMENT

1. Do you feel that the environment around your office/organization/school/ or the Target Area , that is (the cities of Manila, Makati or Pasay) is gradually degrading these days?

1. Yes            2. No

2. If your answer is "1. Yes", could you tell us in what ways the environment is degrading?  
**(Multiple answer possible)**

1. The city is becoming dirty.
2. This area smells bad.
3. Exhaust gas from vehicles is contaminating the air.
4. Occurrences of floods are becoming more frequent.
5. Number of trees and green areas are diminishing.
6. Noise in the neighborhood is increasing.
7. Increase in the number of informal settlers is resulting in the formation of slums.
8. Rivers are filled with garbage and disturbing the flow.
9. Others (please specify)
  - (1) \_\_\_\_\_
  - (2) \_\_\_\_\_
  - (3) \_\_\_\_\_

3. What do you think the cause(s) of the problem(s) that you mentioned above is (are)?  
**(Multiple answer possible)**

1. Increase in population of formal and informal settlers.
2. Increase in the number of vehicles/traffic.
3. People dump their garbage on the streets or into nearby esteros.
4. The increase in the number of informal settlers is causing various problems.
5. Lack of or insufficient government service is becoming cause(s) of the problems.

6. The people violate the law.
7. Others (please specify)

- (1) \_\_\_\_\_
- (2) \_\_\_\_\_
- (3) \_\_\_\_\_

4. Is your office/organization participating in any kind of activities/campaigns to conserve environment or clean/beautify your neighborhood?

1. Yes      2. No

5. If the answer is “1. Yes,” what type of activity(ies)/campaign are you participating in?  
(Multiple answer possible)

1. Our office/staff participate in the cleaning of the neighborhood.
2. Our office/staff participate in the tree/flower planting.
3. Offer financial assistance.
4. Others (please tell us what you are doing)

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6. In case some activity/campaign to improve drainages and conserve environment is planned by this project, would you be willing to participate in it?

1. Yes (**Skip to Question No. 8**)      2. No

7. In case the answer is “2. No,” could you tell us the reason for not participating?  
(Multiple answers possible)

1. We are not particularly interested in improving drainages or conserving environment.
2. We don't have enough people/time to join the activity.
3. We don't think that the surrounding environment is that bad.
4. We are doing our own activity.
5. Other (Please explain us why “no”)

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8. Suppose the above activity/campaign requires financial assistance, is your company/organization willing to make some financial contribution?

1. Yes      2. No

## II. GARBAGE AND GARBAGE DISPOSAL

### 9. Garbage Volume and Recycle

9-1 Approximately how much volume of garbage including all, such as papers, plastic products, glasses, bottles and residues of food, do you think your organization/company as a whole discharging every day/week?

Approximately \_\_\_\_\_ Kg/day or \_\_\_\_\_ Kg/week

9-2 Is your organization/company practicing a separate disposal of garbage by type?

1. Yes 2. No

9-3 If the answer is “1. Yes,” does your company/organization have a system of recycling the garbage?

1. Yes 2. No

9-4 If the answer is “1. Yes,” what types of garbage do you recycle? (**Multiple answers possible**)

1. Papers/Paper products 2. Plastic products 3. Glasses/bottles 4. Aluminum Cans/metals 5. Others (please specify) \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

9-5 Do you sell them to scrap collectors, or the collectors just take them?

1. Yes, sell them. 2. No, the collectors just take them. (Please **Skip to No. 7**)

9-6 If the answer is “1. Yes, sell them,” approximately how much do you get (recover) from them?

	Glasses/bottles	Cans/metals	Paper products	Plastic products	Clothes	Others
Pesos/Kgs						

9-7 Is a garbage collection service available in your area? 1. Yes 2. No (**Skip to No. III**)

9-8 In case the answer is “1. Yes,” how often per week the collection is generally made?

1. Once 2. Twice 3. Three times 4. Less 5. More often

### III. FLOOD AND FLOOD DAMAGES AND LOSSES

#### 10. Flood Occurrences

10-1 Your city suffers frequent occurrences of floods. Do you think the floods can be controlled? 1. Yes 2. No (Please **Skip to No. 10-3**)

10-2 Those who said “1. Yes”, how do you think that the floods can be controlled?  
(**Multiple answer possible**)

1. By improving or rehabilitating riverbanks.
2. By dredging the rivers.
3. By cleaning the garbage in the rivers.
4. By improving or rehabilitating drainage systems.

5. By people stopping the dumping of garbage to the rivers.
6. By relocating informal settlers who live along or on the rivers.
7. By improving the garbage collection system of the city.
8. Others (please kindly specify)

(1) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

10-3 Those who answered “2. No”, why do you think that it’s difficult or impossible to control the floods? **(Multiple answer possible)** Because;

1. the floods occur due to the shape of topography.
  2. it is a matter of rainfalls.
  3. they occur due to over population
  4. the improvement and rehabilitation of the existing river systems or drainage systems to control the floods require a tremendous amount of capital, but we don’t have enough capital.
  5. Others (please specify)
- (1) \_\_\_\_\_
- (2) \_\_\_\_\_
- (3) \_\_\_\_\_

## 11. Flood Damages and Losses

11-1 Has your organization/company ever suffered damages by floods in the last five years?

1. Yes
2. No (Please **Skip to Question No. 11-4**), then to **Category IV**)

11-2 Those who answered “1. Yes,” how many times?

1. Once
2. Twice
3. Three times
4. Every time when a flood occurs
5. Other (please specify) \_\_\_\_\_

11-3 Is your company/organization taking any precaution/measures against the flood?

1. Yes
2. No

11-4 Do you think that the national or city government should take some measures to improve environment and the floods to reduce the damages?

1. Yes
2. Not particularly.
3. The governments are doing sufficiently.

11-5 What were the critical losses of your company /organization? **(Multiple answer possible)**

1. Economic losses (material damages caused by water)
2. Economic losses due to suspension of our business
3. Cleaning up of our offices requires days and a lot of money.
4. Others (please specify)

- (1) \_\_\_\_\_
- (2) \_\_\_\_\_
- (3) \_\_\_\_\_

11-6 What were the economic losses your office/organization suffered.

1. Economic loss by the last flood (the flood of the year \_\_\_\_\_)  
Approximately \_\_\_\_\_ pesos
2. The total number of absentees: \_\_\_\_\_ days
3. Those who reported to work but arrived late: Time lost: \_\_\_\_\_ hours lost  
Number of employees who reported late: \_\_\_\_\_ employees

11-7 What were the economic/social infrastructures and services that were suspended due to floods?

1. Electricity
2. Water (drinking water)
3. Telephone services
4. Roads were impassable for people/vehicles
5. Transportation (public buses/trains/tramcars) service.
6. City gas
7. Others (please specify what infrastructure and services were suspended).

\_\_\_\_\_, \_\_\_\_\_

#### IV. A FLOOD CONTROL ISSUE

12. Do you think that flood control of your city (area) is a very urgent issue that has to be taken care of immediately (it cannot be delayed)?

1. Yes
2. Not particularly

13. Is it also an issue of very important nature (a matter of extremely important)?

1. Yes
2. Not particularly

#### V. ISSUE ON INFORMAL SETTLERS

It is said that many informal settlers build houses and live along or over esteros in the cities of Manila, Makati and Pasay. The water flows in such areas are blocked by the garbage dumped by those informal settlers, resulting in one of the major causes of floods. We would like to know your opinion as to what should be done on those problems.

##### 14. Informal Settlers

14-1 Do you think that the informal settlers should be relocated?

1. Yes
2. No
3. Other opinion (specify) \_\_\_\_\_

14-2 Those who answered "2. No," why do you think it is not necessary? **(Multiple answer possible)** Because;

1. Relocating them does not necessarily solve the problems of floods.
2. Relocation of people causes too much problem for the people and for the government.
3. I don't think that we have any appropriate place to relocate them.
4. Any other reason (please specify)
  - (1) \_\_\_\_\_
  - (2) \_\_\_\_\_
  - (3) \_\_\_\_\_

14-3 Are you **hiring** any informal settlers now?      1. Yes    2. No

14-4 Those who answered "1. **Yes**", **how many** informal-settler employees do you have?  
 \_\_\_\_\_employees

14-5 Can you tell us what are their positions?    They work mainly as \_\_\_\_\_

## 15. Garbage Dumping

15-1 What is a good way (are good ways) do you think to let the people stop dumping their garbage into esteros? (**Multiple answer possible**)

1. Inform them of the problems that are caused by the dumping of garbage.
2. Communicate them that throwing garbage in rivers is against the law.
3. Take some measures to deter people from throwing garbage to the roadsides or into esteros.
4. Provide more frequent and appropriate collection services.
5. Implement the law if ever found dumping their garbage into esteros.
6. Any other opinion (please specify)
  - (1) \_\_\_\_\_
  - (2) \_\_\_\_\_
  - (3) \_\_\_\_\_

**VI.** If you have any other comments on the mentioned issues, please kindly put them below:

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### Items and Types, Categories of Questions

Line No.	Item No.	Items	Data Type	Base Item No.	Number of Category	Figures	Questions
Flag		1	2	1	1	1	2
1	1	Q1 Is environment worsening	1 S A		2		
2	2	Q2 In what ways becoming ba	2 MA	1	9		
3	3	Q3 What is the cause	2 MA	1	8		
4	4	Q4 Activity for conservation	1 S A		2		
5	5	Q5 What type of activity	2 MA	4	4		
6	6	Q6 Participate in activity	1 S A		2		
7	7	Q7 Reason for not participate	2 MA	6	5		
8	8	Q8 Financial assistance	1 S A		2		
9	9	Q9-1 Amount of garbage	3 Amount				
10	10	Q9-2 Separate disposal	1 S A		2		
11	11	Q9-3 System of recycling	1 S A		2		
12	12	Q9-4 Type of garbage recycled	2 MA	11	5		
13	13	Q9-5 Do you sell	1 S A	12	2		
14	14	Q9-6 How much do you get	3 Amount	13			
15	15	Q9-7 Collection services	1 S A		2		
16	16	Q9-8 How often do they collect	1 S A	15	5		
17	17	Q10-1 Can floods be controlled	1 S A		2		
18	18	Q10-2 How can be controlled	2 MA	17	8		
19	19	Q10-3 Why cannot be controlle	2 MA	17	5		
20	20	Q11-1 Ever suffered damages	1 S A		2		
21	21	Q11-2 How many times suffered	1 S A	20	5		
22	22	Q11-3 Taking precaution	1 S A		2		
23	23	Q11-4 Should government take	1 S A		3		
24	24	Q11-5 What were critical losse	2 MA		6		
25	25	Q11-6 What were financial los	3 Amount		3		
26	26	Q11-7 Infrastructure suspende	2 MA		7		
27	27	Q12 Flood control is urgent	1 S A		2		
28	28	Q13 Flood control is important	1 S A		2		
29	29	Q14 Informal settlers move	1 S A		3		
30	30	Q14-2 Why not necessary	2 MA	29	4		
31	31	Q14-3 Hiring informal settlers	1 S A		2		
32	32	Q14-4 How many of them	3 Amount	31			
33	33	Q14-5 Their positions are	4 Letters	32			
34	34	Q15-1 Good way to stop dumpi	2 MA		6		

### Options of Questions (1/2)

( 1)	Q1	Is environment worsening
1	Yes	
2	No	

( 11)	Q9-3	System of recycling
1	Yes	
2	No	

( 2)	Q2	In what ways becoming bad
1	Town becoming dirty	
2	Smells bad	
3	Exhaust gas from vehicles	
4	Frequent occurrence of floods	
5	Green areas are decreasing	
6	Nois is increasing	
7	Informal settlers increasing	
8	Rivers are filled with garbage	
9	Other	

( 12)	Q9-4	Type of garbage recycled
1	Papers/paper products	
2	Plastic products	
3	Glasses/bottles	
4	Alminum cans	
5	Other	

( 13)	Q9-5	Do you sell
1	Yes, we sell them	
2	No, we don't sell	

( 3)	Q3	What is the cause
1	Increase in population	
2	Increase in vehicles	
3	People dump garbage wherever	
4	Increase of informal settlers	
5	Lack of government services	
6	People don't observe rules/laws	
7	Other	
8		

( 15)	Q9-7	Collection services
1	Yes	
2	No	

( 16)	Q9-8	How often do they collect
1	Once	
2	Twice	
3	Three times	
4	Less	
5	More often	

( 4)	Q4	Activity for conservation
1	Yes	
2	No	

( 17)	Q10-1	Can floods be controlled
1	Yes	
2	No	

( 5)	Q5	What type of activity
1	Participate in cleaning	
2	Participate in green planting	
3	Offer financial assistance	
4	Other	

( 18)	Q10-2	How can be controlled
1	Improve/rehabilitate riverbanks	
2	Dredge the rivers	
3	Clean garbage in the rivers	
4	Improve drainage systems	
5	People stop dumping garbage	
6	Relocate informal settlers	
7	Improve collection systems	
8	Other	

( 6)	Q6	Participate in activity
1	Yes	
2	No	

( 7)	Q7	Reason for not participate
1	Not particularly interested	
2	Not enough people/time to do	
3	Environment is not that bad	
4	We do our own activity	
5	Other	

( 19)	Q10-3	Why cannot be controlled
1	Due to topography	
2	Matter of rainfalls	
3	Due to over population	
4	Need too much capital	
5	Other	

( 8)	Q8	Financial assistance
1	Yes	
2	No	

( 20)	Q11-1	Ever suffered damages
1	Yes	
2	No	

( 10)	Q9-2	Separate disposal
1	Yes	
2	No	



## Options of Questions (2/2)

( 21) Q11-2 How many times suffered	
1	Once
2	Twice
3	Three times
4	Every time when flood occur
5	Other

( 22) Q11-3 Taking precaution	
1	Yes
2	No

( 23) Q11-4 Should government take	
1	Yes
2	Not particularly
3	Governments are already doing

( 24) Q11-5 What were critical losses	
1	Direct economic losses
2	Losses to social infrastructure
3	Damage to our installations
4	Employees could not reach
5	Cost of cleaning of our office
6	Other

( 26) Q11-7 Infrastructure suspended	
1	Electricity
2	Water
3	Telephone facilities/services
4	Roads were impassable
5	Transportation were out
6	City gas
7	Other

( 27) Q12 Flood control is urgent	
1	Yes
2	Not particularly

( 28) Q13 Flood control is important	
1	Yes
2	Not particularly

( 29) Q14 Informal settlers move	
1	Yes
2	No
3	Other opinion

( 30) Q14-2 Why not necessary	
1	Elimination does not solve
2	Relocation is too much trouble
3	No good place to relocate
4	Other reason

( 31) Q14-3 Hiring informal settlers	
1	C-1
2	C-2

( 34) Q15-1 Good way to stop dumping	
1	Inform people the problems
2	Educate them of laws/rules
3	Take measures to stop
4	Provide appropriate services
5	Punish those who illegally dump
6	Other

## Result of Mail Survey (1/3)

Q1 Is environment worsening									
Total/Answer		Total		Answer		a: Total Number except Unknown and N/A (% base)			
-100%	100.0	Yes	No	Unknown		N/A (Not applicable)			
Actual number (Total or % base)	94	88.3	83	11		0			
Q2 In what ways becoming bad									
Total/Answer		Total		Answer		a			
-100%	100.0	Town becoming dirty		Streets bad		Exhaust gas from vehicles		Frequent occurrence of floods	
Actual number (Total or % base)	84	67.9		44.0		56.0		58.3	
Q3 What is the cause									
Total/Answer		Total		Answer		a			
-100%	100.0	Increase in population		Increase in vehicles		People dump garbage wherever		Increase of informal settlers	
Actual number (Total or % base)	87	72.4		64.4		83.9		63.2	
Q4 Activity for conservation									
Total/Answer		Total		Answer		a			
-100%	100.0	Yes	No	Unknown		Not applicable			
Actual number (Total or % base)	91	82.4	75	16		3			
Q5 What type of activity									
Total/Answer		Total		Answer		a			
-100%	100.0	Participate in cleaning		Participate in green planting		Offer financial assistance		Other	
Actual number (Total or % base)	75	78.7		34.7		20.0		26.7	
Q6 Participate in activity									
Total/Answer		Total		Answer		a			
-100%	100.0	Yes	No	Unknown		N/A			
Actual number (Total or % base)	89	78.7	70	19		5			
Q7 Reason for not participate									
Total/Answer		Total		Answer		a			
-100%	100.0	Not particularly interested		Not enough people/time to do		Environment is not that bad		We do our own activity	
Actual number (Total or % base)	20	0.0		70.0		10.0		40.0	
Q8 Financial assistance									
Total/Answer		Total		Answer		a			
-100%	100.0	Yes	No	Unknown		N/A			
Actual number (Total or % base)	62	56.5	35	27		32			
Q9-1 Amount of garbage									
Total/Answer		Total		Answer (Amount)		a			
-100%	63	Average		Dispersion (n-1)		Standard deviation (n-1)		Maximum	
Actual number (Total or % base)	63	4900.0		77.8		81205.7		285.0	
Q9-2 Separate disposal									
Total/Answer		Total		Answer		a			
-100%	100.0	Yes	No	Unknown		N/A			
Actual number (Total or % base)	90	63.3	57	33		4			
Q9-3 System of recycling									
Total/Answer		Total		Answer		a			
-100%	100.0	Yes	No	Unknown		N/A			
Actual number (Total or % base)	64	60.9	39	25		6			
Q9-4 Type of garbage recycled									
Total/Answer		Total		Answer		a			
-100%	100.0	Paper/paper products		Plastic products		Glass/bottles		Aluminum cans	
Actual number (Total or % base)	37	89.2		54.1		48.6		29.7	
Q9-5 Rivers are filled with garbage									
Total/Answer		Total		Answer		a			
-100%	100.0	Rivers are filled with garbage		Informal settlers increasing		Noise is increasing		People don't observe rules/laws	
Actual number (Total or % base)	84	76.2		46.4		50.0		64.4	
Q9-6 Other									
Total/Answer		Total		Answer		a			
-100%	100.0	Other		Other		Other		Other	
Actual number (Total or % base)	10	16.7		0		0		0	

## Result of Mail Survey (2/3)

Q9-5 Do you sell

Total	Yes, we sell them	No, we don't sell	Answer	n
Total/Answer	28.6	71.4	Unknown	
-100%				
Actual number (Total or % base)	84	60	8	34

Q9-6 How much do you get

Total	Average	Dispersion (n-1)	Answer (Amount)	Minimum	Maximum	Answer	n
Total/Answer	1491.0	149.1	97754.8	1000.0		Unknown	N/A
-100%							
Actual number (Total or % base)	10	-	-	-	10	33	51

Q9-7 Collection services

Total	Yes	No	Answer	n
Total/Answer	94.3	5.7	Unknown	
-100%				
Actual number (Total or % base)	83	5	1	88

Q9-8 How often do they collect

Total	Once	Twice	Three times	Less	More often	Answer	n
Total/Answer	5.2	11.7	10.4	2.6	70.1	Unknown	
-100%							
Actual number (Total or % base)	77	4	8	2	54	6	77

Q10-1 Can floods be controlled

Total	Yes	No	Answer	n
Total/Answer	93.5	6.5	Unknown	
-100%				
Actual number (Total or % base)	92	6	0	92

Q10-2 How can be controlled

Total	Improve/rehabilitate riverbanks	Dredge the rivers	Clean garbage in the rivers	Improve drainage systems	People stop dumping garbage	Relocate informal settlers	Improve collection systems	Other	Answer	n
Total/Answer	70.8	65.2	84.3	92.1	80.9	67.4	64.0	7.9	Unknown	N/A
-100%										
Actual number (Total or % base)	89	63	58	75	82	60	57	7	5	89

Q10-3 Why cannot be controlled

Total	Answer					n
Total/Answer	Due to topography	Matter of rainfalls	Due to over population	Need too much capital	Other	N/A
-100%	50.0	50.0	50.0	25.0	25.0	
Actual number (Total or % base)	4	2	2	1	2	0
						90
						4

Q11-1 Ever suffered damages

Total	Yes	No	Answer	n
Total/Answer	63.9	37.1	Unknown	
-100%				
Actual number (Total or % base)	89	33	5	89

Q11-2 How many times suffered

Total	Once	Twice	Three times	Every time when flood occur	Other	Answer	n
Total/Answer	9.3	11.1	9.3	68.5	1.9	Unknown	
-100%							
Actual number (Total or % base)	34	5	6	37	1	34	54

Q11-3 Taking precaution

Total	Yes	No	Answer	n
Total/Answer	84.2	15.8	Unknown	
-100%				
Actual number (Total or % base)	76	12	9	76

Q11-4 Should government take

Total	Yes	Not particularly	Governments are already doing	Unknown	Answer	n
Total/Answer	80.9	3.4	6.7	N/A	Unknown	
-100%						
Actual number (Total or % base)	89	3	6	5	0	89

Q11-5 What were critical losses

Total	Direct economic losses	Losses to social infrastructure	Damage to our installations	Employees could not reach	Cost of cleaning of our office	Other	Answer	n
Total/Answer	52.5	73.8	31.3	11.3	0.0	Unknown	N/A	
-100%								
Actual number (Total or % base)	80	42	25	9	0	4	10	80

## Result of Mail Survey (3/3)

Q11-6 What were financial loss									
Total		Average		Answer (Amount)		Answer		Answer	
Total	Total	Dispersion(n-1)		Standard deviation(n-1)		Maximum		Minimum	
-100%	16	-		-		-		1.0	
Actual number(Total or % base)	16							16	
								64	
								14	
Q11-7 Infrastructure suspended									
Total		Water		Answer		Answer		Answer	
Total	Total	Electricity		Telephone facilities/services		Roads were impassable		Transportation were out	
-100%	100.0	38.5		34.1		22.0		81.7	
Actual number(Total or % base)	82	48		28		18		67	
								58.5	
								48	
								2	
								2.4	
								2	
								4	
								8	
								82	
Q12 Flood control is urgent									
Total		Not particularly		Answer		Answer		Answer	
Total	Total	Yes		Unknown		N/A			
-100%	100.0	87.8		12.2					
Actual number(Total or % base)	90	79		11		4		0	
								90	
Q13 Flood control is important									
Total		Not particularly		Answer		Answer		Answer	
Total	Total	Yes		Unknown		N/A			
-100%	100.0	86.9		13.1					
Actual number(Total or % base)	84	73		11		10		0	
								84	
Q14 Informal settlers move									
Total		No		Answer		Answer		Answer	
Total	Total	Yes		Other opinion		Unknown		N/A	
-100%	100.0	87.8		5.6		6.7			
Actual number(Total or % base)	90	79		5		6		4	
								0	
								90	
Q14-2 Why not necessary									
Total		Relocation is too much trouble		Answer		Answer		Answer	
Total	Total	Elimination does not solve		No good places to relocate		Other reason		Unknown	
-100%	100.0	75.0		75.0		50.0		0.0	
Actual number(Total or % base)	8	6		6		4		0	
								5	
								8	
Q14-3 Hiring informal settlers									
Total		C-1		Answer		Answer		Answer	
Total	Total	C-2		Unknown		N/A			
-100%	100.0	13.0		87.0					
Actual number(Total or % base)	77	10		67		17		0	
								77	
Q14-4 How many of them									
Total		Average		Answer (Amount)		Answer		Answer	
Total	Total	Dispersion(n-1)		Standard deviation(n-1)		Maximum		Minimum	
-100%	5	81.0		16.2		456.7		21.4	
Actual number(Total or % base)	5	-		-		-		-	
								5	
								21	
								68	
Q15-1 Good way to stop dumping									
Total		Educate them of laws/rules		Answer		Answer		Answer	
Total	Total	Inform people the problems		Take measures to stop		Provide appropriate services		Punish those who illegally dump	
-100%	100.0	80.0		88.9		74.4		78.9	
Actual number(Total or % base)	90	72		62		67		71	
								14	
								4	
								0	
								90	

## *Key Informants Survey*

## Questions to Key Informants

No. \_\_\_\_\_ Date: \_\_\_\_\_ March 2004  
City: \_\_\_\_\_ Manila, Makati, Pasay, Caloocan, Quezon, Taguig  
Barangay/District/Zone/Sitio/Purok \_\_\_\_\_  
Population of Barangay (approximately) \_\_\_\_\_ persons Households \_\_\_\_\_  
Name of Organization: \_\_\_\_\_  
Title/Position: \_\_\_\_\_  
Name of the Respondent: \_\_\_\_\_

### I. On Floods (Experience by general population of your Barangay)

1. Is this a flood -prone area? Yes, No
2. How often has this area been hit by floods? \_\_\_\_\_
3. What was the last flood you have experienced a flood (what year was it?) Year \_\_\_\_\_
4. How long the flood lasts generally (the duration)? a. half day b. one day c. 2-3 days
5. The extent of damage: (what were the last flood damages? Furniture, appliances, clothes, house?) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. Are the people taking any precaution/countermeasures? Yes, No If Yes, in what ways?  
\_\_\_\_\_  
\_\_\_\_\_

7. What kind of sicknesses/diseases would people suffer caused by the floods?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8. Do you think that the people are aware of the environment around them? Yes, No  
\_\_\_\_\_  
\_\_\_\_\_

### II. Informal Settlers

1. Approximately how many informal settlers live within your Barangay?  
\_\_\_\_\_ households.
2. How long have they been living there? For \_\_\_\_\_ years/Since \_\_\_\_\_ years ago
3. The conditions of informal settlers around here.
  - a. Housing condition \_\_\_\_\_
  - b. Hygiene \_\_\_\_\_

- c. Income level \_\_\_\_\_
- d. Education level \_\_\_\_\_
- e. Government services Electricity, water \_\_\_\_\_
- f. Services of NGOs \_\_\_\_\_
- g. Other comments \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

4. Your personal opinion on informal settlers.

The study revealed that some of the informal settlers in your city have to be relocated. What do you think about it? Do you think that they should be relocated? If yes, why do you think so?

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5. Is the relationship between informal settlers and formal settlers is generally in good terms?  
Yes      No

6. If not, will the informal settlers organize themselves for the effort of maintaining the cleanliness of their surroundings?

### III. On Environment

1. Is the environment degrading around here? Yes, No. If yes, how is it degrading?

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2. Do you think that environment should be conserved? How?

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### IV. On Solid Waste and Drainage System

1. Do you know that who is (are) managing the estero or drainage system around here?

Managed by: \_\_\_\_\_

2. Who is (are) cleaning the drainages?

Cleaned by: \_\_\_\_\_

3. How often the cleaning is done? Every month? Once a year?

Before the rainy season? or \_\_\_\_\_

4. Are there problems with the drainage systems around here? If any, what are they?

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5. Do the people in this area often throw garbage in the estero in your Barangay? Yes No

6. If they do, what do they throw?

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7. Why do you think they throw garbage in the estero?

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8. Is a garbage collection service is available in your area? Yes No

9. If yes, who provides the service?

- a. City government
- b. Barangay directly
- c. Barangay hires some people to do

10. Do you/people in general segregate the garbage? Yes No

11. How often do they collect? a. Every day b. \_\_\_\_ time per week

**Comment by the Interviewer:**

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## ***Chapter 5***

### ***INUNDATION SURVEY FOR AUGUST 2004***

## TABLE OF CONTENTS

- 5.1 Questionnaire Survey Form
- 5.2 Summary of Inundation Survey Results

## *Questionnaire Survey Form*

## QUESTIONNAIRE SURVEY FORM

**ID No.** \_\_\_\_\_

Name of Respondent : \_\_\_\_\_

Address of Respondent : \_\_\_\_\_

Signature of Respondent : \_\_\_\_\_

Survey date		
Surveyor		
Date of flooding	August 25, 2004	
Duration of flooding (hrs) <sup>1)</sup>		
Maximum depth of flooding (cm) <sup>2)</sup>		
Geographical location (Indicate on the map the ID number and depth)		
Is the flood rising? (Fast or Slow, please check)	Fast	Slow
How long? (hrs)		
Is the flood receding? (Fast or Slow, please check)	Fast	Slow
How long? (hrs)		
Where is the flood coming from? (Also indicate on the map)		
Where is the flood going to? (Also indicate on the map)		
Flood damage (Describe if any)		
Possible causes of Flooding		
a. Overbanking of nearby creek/river (Yes or No, pls. check)	Yes	No
b. Poor drainage system (Yes or No, pls. check)	Yes	No
c. Others (Please specify)		

Note:

- 1) Duration will be recorded with an increment of one (1) hour.
- 2) No inundation (no surface flow), **N**; Maximum flood depth < 10cm, **S**; Maximum flood depth ≥ 10cm, indicate with an increment of 10cm (i.e. 30cm, 50cm, 100cm, 120cm ...)
- 3) Maximum depth shall be measured from the lowest elevation, which is usually the road surface (not from the sidewalk).

## *Summary of Inundation Survey Results*

## SUMMARY OF INUNDATION SURVEY RESULTS (1/21)

ID No.	Location		Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
	X	Y									
1001	499643.3391	1614652.0376	S	1	Minerva - J.P. Laurel	20 min	20 min	Overbanking of estero, clogged drainage	06/10/2004	PCD	ESC
1002	499582.8904	1614571.6537	S	30 min	J.P. Laurel - Buencamino	15 min	15 min	Garbage	07/10/2004	PCD	ESC
1003	499285.1129	1614350.0305	0	0	J.P. Laurel - Arlegui				07/10/2004	PCD	ESC
1004	499181.3423	1614145.6439	0	0	J.P. Laurel - Agana				07/10/2004	PCD	ESC
1005	499108.0710	1613983.7340	0	0	221 Sical St.				07/10/2004	PCD	ESC
1006	499954.5070	1613890.1114	0	0	221 Sical St.				07/10/2004	PCD	ESC
1007	496745.2859	1613898.5426	0	0	807 Padilla St.				07/10/2004	PCD	ESC
1008	498463.2892	1613898.8272	0	0	C. Palanca - P. Casal				07/10/2004	PCD	ESC
1009	496569.3964	1614057.9479	40	4	Along P. Casal, near bridge	1	1	Garbage, clogged drainage	07/10/2004	PCD	ESC
1010	498749.9313	1613994.8171	0	0	(Nepomuceno - Malacatang Bridge)				20/10/2004	PCD	ESC
1011	496991.6468	1614192.3596	30	5	279 Aguado St.	30 min	30 min	Clogged drainage	08/10/2004	PCD	ESC
1012	498029.2953	1614330.7478	0	0	Arlegui - San Rafael				08/10/2004	PCD	ESC
1013	498921.6198	1614326.6929	0	0	Arlegui - Aguado				08/10/2004	PCD	ESC
1014	498730.6518	1614330.0289	0	0	289 Barcaiz Tegui				07/10/2004	PCD	ESC
1015	498538.9379	1614352.1143	0	0	Fraternal - Arlegui				08/10/2004	PCD	ESC
1016	498318.2954	1614389.4641	0	0	Arlegui, Quiapo				08/10/2004	PCD	ESC
1017	498306.3196	1614585.3845	0	0	947 McGregor St.				08/10/2004	PCD	ESC
1018	498439.5371	1614461.7431	0	0	995 C. Agula St.				08/10/2004	PCD	ESC
1019	498650.9567	1614649.0908	0	0	Plaza Del Carmen				08/10/2004	PCD	ESC
1020	498828.4214	1614602.3816	0	0	Legarda - San Rafael				09/10/2004	PCD	ESC
1021	498964.7679	1614491.0282	0	0	San Rafael - Agula				09/10/2004	PCD	ESC
1022	499134.3212	1614527.8708	0	0	Mendiola - Agula				09/10/2004	PCD	ESC
1023	499398.2902	1614602.3376	0	0	Agula - 5th Street				09/10/2004	PCD	ESC
1024	498881.3590	1614746.3937	S	4	Legarda - C.M. Recto	1	30 min	Clogged drainage	14/10/2004	PCD	ESC
1025	498505.4807	1614767.9578	0	0	Loyola - Bilibid Viejo				14/10/2004	PCD	ESC
1026	498357.6411	1614998.3799	0	0	C.M. Recto - Severino				14/10/2004	PCD	ESC
1027	498477.9398	1614958.4450	30	4	C.M. Recto - Morayta	1	30 min	Clogged drainage	14/10/2004	PCD	ESC
1028	498573.0089	1614899.6469	S	4	Lepanto - C.M. Recto	1	30 min	Clogged drainage	14/10/2004	PCD	ESC
1029	498692.7830	1614844.1803	0	0	C.M. Recto - San Sebastian St.				14/10/2004	PCD	ESC
1030	498978.1027	1614828.4680	20	4	Legarda - M. De Los Santos	1	30 min	Clogged drainage	18/10/2004	PCD	ESC
1031	498306.6374	1615242.6291	0	0	Lerma - Quezon Blvd.				15/10/2004	PCD	ESC
1032	498533.5829	1615179.0932	50	8	Morayta - R. Papa	2	1	Drainage	15/10/2004	PCD	ESC
1033	498651.2631	1615055.3704	40	8	R. Papa - Loyola	2	1	Clogged drainage	15/10/2004	PCD	ESC
1034	498819.9228	1615024.3149	40	8	Gastambide - San Anton	2	1	Clogged drainage	15/10/2004	PCD	ESC
1035	498068.3677	1614882.2817	S	4	Legarda - Figueras	1	30 min	Clogged drainage	14/10/2004	PCD	ESC
1036	499154.9192	1614860.7796	S	4	Legarda - Manrique	1	30 min	Clogged drainage	14/10/2004	PCD	ESC
1037	499404.6794	1614785.9660	20	4	Legarda - Jhocson	1	30 min	Clogged drainage	14/10/2004	PCD	ESC
1038	499642.0521	1614837.6029	0	0	Legarda - Sta. Teresita				09/10/2004	PCD	ESC
1039	499780.6921	1614797.2780	0	0	LBC Rotonda				09/10/2004	PCD	ESC
1040	499785.3922	1614502.7869	0	0	Nagtahan Int. - San Miguel				14/10/2004	PCD	ESC
1041	498588.5812	1614412.4820	0	0	Matienza (curved section)				15/10/2004	PCD	ESC
1042	499728.1748	1614241.9096	0	0	Inside Malacatang Park				21/10/2004	PCD	ESC
1043	498671.2438	1613969.9277	40	12	Mendiola Ext.	2	1	Clogged drainage	21/10/2004	PCD	ESC
1044	498793.9247	1613826.9984	30	12	Oris - Mendiola Ext.	2	1	Clogged drainage	21/10/2004	PCD	ESC
1045	500012.8003	1613983.3559	S	0	Foot of Nagtahan Bridge				21/10/2004	PCD	ESC
1046	500039.4249	1613807.5266	0	0	Quirino Ave.				21/10/2004	PCD	ESC
1047	500248.8338	1613933.4335	0	0	Pandacan Pumping Station				21/10/2004	PCD	ESC
1048	500404.6661	1613840.7512	0	0	Jesus - Jesus Ext.				12/10/2004	PCD	ESC
1049	500017.7987	1614370.9275	0	0	Anonas - Nagtahan				12/10/2004	PCD	ESC
1050	499936.2605	1614520.1795	0	0	2131 North Nagtahan				12/10/2004	PCD	ESC
1051	500116.6974	1614438.7967	0	0	Anonas, near pumping station				12/10/2004	PCD	ESC
1052	500082.0312	1614574.1113	0	0	Valencia - Rulioba				12/10/2004	PCD	ESC

# SUMMARY OF INUNDATION SURVEY RESULTS (2/21)

ID No.	Location		Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
1053	499855.7943	1614864.5633	0	0	Francisco - Magsaysay				10/10/2004	PCD	ESC
1054	499837.0156	1614993.7852	0	0	Loreto - Francisco				10/10/2004	PCD	ESC
1055	499678.1507	1614987.8451	0	0	A.H. Lacson (beside creek)				15/10/2004	PCD	ESC
1056	499428.4138	1614987.2658	S	4	Lardizabal - Jhocson				14/10/2004	PCD	ESC
1057	499279.5247	1615024.5366	30	8	Arenas - G. Tuazon	1	1	Clogged drainage	15/10/2004	PCD	ESC
1058	499106.2994	1615022.1050	0	0	Manrique - Figueras	1	30 min	Clogged drainage	15/10/2004	PCD	ESC
1059	498953.9706	1615055.5422	30	8	San Anton - Delgado	2	1	Clogged drainage	15/10/2004	PCD	ESC
1060	498688.1179	1615134.9136	40	8	Paredes - Loyola	2	30 min	Clogged drainage	15/10/2004	PCD	ESC
1061	498551.6433	1615292.8849	50	8	Morayia - Lerma - España	2	1	Clogged drainage	15/10/2004	PCD	ESC
1062	498427.7781	1615409.6622	40	12	Paredes - T. De Los Reyes	2	1	Clogged drainage	18/10/2004	PCD	ESC
1063	498341.6673	1615501.1998	30	12	Quezon Blvd. - Paredes	2	1	Clogged drainage	18/10/2004	PCD	ESC
1064	498359.0738	1615655.8579	20	12	Laong Laan - Adelina	2	1	Clogged drainage	18/10/2004	PCD	ESC
1065	498517.6070	1615491.9771	30	10	T. De Los Reyes - Adelina	2	1	Clogged drainage	18/10/2004	PCD	ESC
1066	498709.8622	1615462.8910	50	8	P. Noval - España	2	1	Clogged drainage	15/10/2004	PCD	ESC
1067	498835.9664	1615325.7695	30	8	Loyola - P. Noval	2	1	Clogged drainage	15/10/2004	PCD	ESC
1068	498967.8204	1615303.9056	30	10	Galicia - Concepcion	2	1	Clogged drainage	18/10/2004	PCD	ESC
1069	499116.0521	1615164.1657	50	10	Bustillos - Jhocson	2	1	Clogged drainage	18/10/2004	PCD	ESC
1070	499119.7350	1615291.1142	30	10	Bustillos - Moret Ext.	2	1	Clogged drainage	18/10/2004	PCD	ESC
1071	499006.0993	1615374.2784	0	0	Moret - San Perfecto	2	1	Clogged drainage	18/10/2004	PCD	ESC
1072	498893.7312	1615382.7584	50	10	Loyola - Galicia	2	1	Clogged drainage	18/10/2004	PCD	ESC
1073	498786.2298	1615500.7226	70	10	España - Galicia	2	1	Clogged drainage	18/10/2004	PCD	ESC
1074	498604.4145	1615574.1043	50	12	P. Noval - T. De Los Reyes	2	1	Clogged drainage	18/10/2004	PCD	ESC
1075	498493.7207	1615693.3333	50	12	P. Noval - Barlin	2	1	Clogged drainage	18/10/2004	PCD	ESC
1076	498367.1619	1615798.8630	50	12	P. Noval - Quezon Blvd.	2	1	Clogged drainage	18/10/2004	PCD	ESC
1077	498493.8883	1615912.8241	50	12	Navarra - Daptian	2	1	Clogged drainage	18/10/2004	PCD	ESC
1078	498965.6387	1615913.8673	40	12	A.H. Lacson - P. Florentino	2	45 min	Clogged drainage	20/10/2004	PCD	ESC
1079	498960.1782	1615658.2898	100	10	España - Cayco	2	1	Clogged drainage	18/10/2004	PCD	ESC
1080	499070.9521	1615542.5401	30	10	Loyola - Cayco	2	1	Clogged drainage	18/10/2004	PCD	ESC
1081	499180.3311	1615425.7315	20	10	Fajardo - Cayco	2	1	Clogged drainage	18/10/2004	PCD	ESC
1082	499297.9786	1615307.9502	0	0	Jhocson - Cayco	2	1	Clogged drainage	18/10/2004	PCD	ESC
1083	499385.0837	1615222.8197	0	0	Jhocson - Cayco	2	1	Clogged drainage	09/10/2004	PCD	ESC
1084	499646.6133	1615152.9682	0	0	1459 Alcantara St.				09/10/2004	PCD	ESC
1085	499495.0203	1615090.8473	0	0	G. Tuazon, near A.H. Lacson				09/10/2004	PCD	ESC
1086	499588.1148	1615298.4785	30	10	G. Tuazon - Cayco	2	1	Clogged drainage	09/10/2004	PCD	ESC
1087	499501.3961	1615327.5641	40	10	Geronimo - Geronimo	2	1	Clogged drainage	18/10/2004	PCD	ESC
1088	499413.5725	1615425.9620	40	8	A.H. Lacson - Alcantara	2	1	Clogged drainage	18/10/2004	PCD	ESC
1089	499306.7519	1615536.3520	50	12	Along A.H. Lacson St.	4	1	Garbage	09/10/2004	PCD	ESC
1090	499200.1302	1615658.7648	S	12	Fajardo - A.H. Lacson	2	1	Clogged drainage	20/10/2004	PCD	ESC
1091	499077.6593	1615785.6163	50	12	A.H. Lacson - Loyola	1	10 min	Clogged drainage	20/10/2004	PCD	ESC
1092	499256.0367	1615936.5649	80	14	España - A.H. Lacson	2	1	Clogged drainage	20/10/2004	PCD	ESC
1093	499319.4033	1615777.9676	80	12	España (near Della Fuente)	3	1	Poor drainage system	18/10/2004	PCD	ESC
1094	499431.8460	1615655.6766	50	12	Loyola - Don Quijote	2	1	Poor drainage system	18/10/2004	PCD	ESC
1095	499514.5697	1615542.6765	50	10	Carola - Fajardo	2	1	Clogged drainage	18/10/2004	PCD	ESC
1096	499757.0811	1615309.7041	S	6	Carola - Geronimo	2	1	Garbage	18/10/2004	PCD	ESC
1097	499821.3287	1615243.7386	S	6	Verdad - Honradez (1645 G. Tuazon)	2	30 min	Garbage	10/10/2004	PCD	ESC
1098	499997.9118	1615202.9076	40	12	G. Tuazon - Verdad	2	1	Garbage	10/10/2004	PCD	ESC
1099	500048.5894	1615055.8402	0	0	Vicente Cruz - Arevalo	2	1	Clogged drainage	09/10/2004	PCD	ESC
1100	500104.7114	1614885.1526	0	0	Vicente Cruz - Rosario			Clogged drainage	09/10/2004	PCD	ESC
1101	500209.1880	1614705.7271	0	0	Vicente Cruz - Magsaysay			Clogged drainage	09/10/2004	PCD	ESC
1102	500373.3456	1614563.2293	0	0	Ampil - Abad Santos			Clogged drainage	12/10/2004	PCD	ESC
1103	500357.2731	1614719.4049	40	8	Anonas - Pureza			Clogged drainage	12/10/2004	PCD	ESC
1104	500342.6632	1614874.5532	30	8	Pureza - Abad Santos	2	1	Clogged drainage	12/10/2004	PCD	ESC
					Pureza - Ramon Magsaysay	2	1	Clogged drainage	12/10/2004	PCD	ESC

# SUMMARY OF INUNDATION SURVEY RESULTS (3/21)

ID No.	Location		Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
	X	Y									
1105	500253.5228	1615125.1654	0	0	Rosario - Puraza				17/10/2004	PCD	ESC
1106	500144.3507	1615220.1376	0	0	San Jose - Prudencio				17/10/2004	PCD	ESC
1107	499951.5736	1615336.1379	0	0	G. Tuazon - V. Cruz				10/10/2004	PCD	ESC
1108	499874.7918	1615420.3063	60	6	Vicente Cruz - Honradez	2	1	Garbage	10/10/2004	PCD	ESC
1109	499682.3983	1615673.1774	30	6	571 Miguelin St.	2	30 min	Garbage	10/10/2004	PCD	ESC
1110	499552.1475	1615769.8084	40	6	Vicente Cruz - Fajardo (745 Algeciras St.)	2	30 min	Garbage	10/10/2004	PCD	ESC
1111	499438.6075	1615884.8213	70	12	Loyola - V. Cruz	2	1		18/10/2004	PCD	ESC
1112	499667.4883	1615877.4574	40	6	Fajardo - Algeciras	2	30 min	Garbage	10/10/2004	PCD	ESC
1113	499771.4216	1615755.8774	30	6	Algeciras - Sobriedad	2	30 min	Garbage	10/10/2004	PCD	ESC
1114	499882.9599	1615843.1626	30	6	Algeciras - Firmeza	2	30 min	Garbage	10/10/2004	PCD	ESC
1115	499930.3371	1615530.5445	30	6	Algeciras - Honradez	3	30 min	Poor drainage	10/10/2004	PCD	ESC
1116	500089.4825	1615421.0512	30	6	Algeciras - G. Tuazon	3	30 min	Poor drainage	10/10/2004	PCD	ESC
1117	500212.1877	1615266.4472	0	0	Puraza Ext - Pallok				17/10/2004	PCD	ESC
1118	500373.3076	1615105.2355	0	0	Alegria - Pallok				17/10/2004	PCD	ESC
1119	500520.7665	1614892.7170	40	8	Sia. Mesa - Fortuna	2	1	Clogged drainage	12/10/2004	PCD	ESC
1120	500512.6773	1614744.5902	0	0	Abad Santos - Aranela				12/10/2004	PCD	ESC
1121	500638.0678	1614639.1308	0	0	Anonas - Road 1				12/10/2004	PCD	ESC
1122	500852.6444	1614709.8279	90	12	Road 9 - Hippodromo	3	2	Clogged drainage	20/10/2004	PCD	ESC
1123	501135.6533	1614622.3148	S	6	Teresa - Anonas				20/10/2004	PCD	ESC
1124	501144.4162	1613926.2610	20	12	Jesus Ext - Noble	2	30 min	Clogged drainage	17/10/1902	PCD	ESC
1125	501305.0413	1613823.9051	40	12	Certeza - Beata	2	1	Clogged drainage	21/10/2004	PCD	ESC
1126	500736.0842	1614930.5610	S	6	Magsaysay (under bridge)				20/10/2004	PCD	ESC
1127	500981.6548	1614943.0369	0	0	Magsaysay - Altura Ext.				20/10/2004	PCD	ESC
1128	500508.6381	1615183.6168	0	0	Mindanao Ave. - D. Santiago (Vigan St.)				11/10/2004	PCD	ESC
1129	500373.4122	1615291.1744	60	12	D. Santiago - Visayas Ave. (Mindanao Ave. Ext.)	2	1	Clogged Drainage	11/10/2004	PCD	ESC
1130	500304.0629	1615356.2098	60	12	D. Santiago, near creek	2	1	Clogged Drainage	11/10/2004	PCD	ESC
1131	500190.5142	1615489.0777	S	6	Quintos - G. Tuazon	1	30 min	Clogged Drainage	11/10/2004	PCD	ESC
1132	500091.9534	1615612.2676	S	6	Quintos - Honradez	1	30 min	Clogged Drainage	11/10/2004	PCD	ESC
1133	499972.2855	1615726.9545	60	9	Quintos - Fertiliza (500 San Diego St.)	2	1	Clogged Drainage	11/10/2004	PCD	ESC
1134	499852.0232	1615843.4006	30	6	Quintos - Sobriedad	1	30 min	Clogged Drainage	11/10/2004	PCD	ESC
1135	499892.0455	1615870.5000	0	0	Kundiman - Sobriedad				11/10/2004	PCD	ESC
1136	500029.0824	1615774.6602	0	0	Craig - Firmeza				11/10/2004	PCD	ESC
1137	500121.9701	1615683.1168	0	0	Craig - Honradez				11/10/2004	PCD	ESC
1138	500230.6609	1615558.0503	0	0	Craig - G. Tuazon				11/10/2004	PCD	ESC
1139	500350.1678	1615515.4023	0	0	Mindoro - Luzon				11/10/2004	PCD	ESC
1140	500475.8554	1615419.1432	50	12	Mindoro - Visayas	2	1	Clogged Drainage	11/10/2004	PCD	ESC
1141	500598.9197	1615300.9998	0	0	Mindanao - Mindoro				11/10/2004	PCD	ESC
1142	500692.0548	1615433.4707	0	0	Negros - Mindanao				17/10/2004	PCD	ESC
1143	500566.7248	1615536.2699	30	10	Visayas - Negros	2	1	Clogged drainage	17/10/2004	PCD	ESC
1144	500442.1837	1615632.0559	30	10	Luzon - Negros	1	30 min	Clogged drainage	17/10/2004	PCD	ESC
1145	500281.8513	1615762.3665	30	10	G. Tuazon - Negros	2	1	Clogged drainage	17/10/2004	PCD	ESC
1146	500514.3918	1615777.1256	40	8	Leyte - Luzon	2	1	Clogged drainage	17/10/2004	PCD	ESC
1147	500664.7594	1615658.2436	30	8	Visayas - Leyte	1	30 min	Clogged drainage	17/10/2004	PCD	ESC
1148	500787.4777	1615557.8769	40	8	Mindanao - Leyte	2	1	Clogged drainage	17/10/2004	PCD	ESC
1149	500882.1806	1615679.2091	30	8	Mindanao - Cebu	2	1	Clogged drainage	17/10/2004	PCD	ESC
1150	500761.2673	1615777.5007	30	8	Cebu - Visayas	2	30 min	Clogged drainage	17/10/2004	PCD	ESC
1151	500637.3499	1615877.4165	30	8	Cebu - Luzon	2	1	Clogged drainage	17/10/2004	PCD	ESC
1152	500855.7506	1615898.9960	0	0	Batanes - Visayas				17/10/2004	PCD	ESC
1153	500978.8515	1615800.8437	0	0	Mindanao - Balanes				17/10/2004	PCD	ESC
1154	496921.1156	1616063.2422	20	10	Nicodemus - Dagupan	2	1	Clogged drainage	21/10/2004	PCD	ESC
1155	496949.0204	1616210.6104	20	12	Jose Basa - Dagupan	2	1 hr 30 min	Clogged drainage	21/10/2004	PCD	ESC
1156	496992.3830	1616401.2576	0	0	Endaya - Dagupan				21/10/2004	PCD	ESC



## SUMMARY OF INUNDATION SURVEY RESULTS (4/21)

ID No.	Location		Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
	X	Y									
1157	497045.1419	1616228.8187	0	0	Tayuman - Dagupan				21/10/2004	PCD	ESC
1158	497094.7288	1616923.3037	0	0	Raxa Bago - Dagupan				21/10/2004	PCD	ESC
1159	496946.5872	1616928.1094	0	0	Perfecto - Raxa Bago				21/10/2004	PCD	ESC
1160	496919.8943	1616776.2110	30	12	Old Torres - Perfecto	2	1	Clogged drainage	21/10/2004	PCD	ESC
1161	496894.9572	1616662.6924	20	10	Tayuman - Perfecto	2	1	Clogged drainage	21/10/2004	PCD	ESC
1162	496875.0978	1616569.7002	30	10	Arqueros - Perfecto	2	1	Clogged drainage	21/10/2004	PCD	ESC
1163	496846.4127	1616430.4258	0	0	Endaya - Perfecto				21/10/2004	PCD	ESC
1164	496804.5679	1616244.3455	0	0	Jose Basa - Perfecto				21/10/2004	PCD	ESC
1165	496773.9880	1616094.3871	0	0	Nicodemos - Perfecto				21/10/2004	PCD	ESC
1166	496745.8701	1616375.1373	0	0	Prudencia - Gabriela				21/10/2004	PCD	ESC
1167	496733.8055	1616801.4054	0	0	Prudencia - Arqueros				21/10/2004	PCD	ESC
1168	496731.1239	1616699.3822	0	0	Prudencia - Tayuman				21/10/2004	PCD	ESC
1169	496751.0559	1616827.3108	0	0	Old Torres - Juan Luna				21/10/2004	PCD	ESC
1170	496790.4596	1616954.6856	0	0	Old Torres - Juan Luna				21/10/2004	PCD	ESC
1171	496558.1714	1617025.7965	0	0	Raxa Bago - Bato				21/10/2004	PCD	ESC
1172	496559.7480	1616891.7169	0	0	1983 Capulong St.				21/10/2004	PCD	ESC
1173	496523.2767	1616670.3924	S	10	Herbosa - Franco	1	30 min	Clogged drainage	21/10/2004	PCD	ESC
1174	496483.4349	1616500.5634	0	0	Dandan - Franco				21/10/2004	PCD	ESC
1175	496605.3766	1616434.2795	30	12	Corcuera - Zamora	2	1	Clogged drainage	21/10/2004	PCD	ESC
1176	496620.1569	1616286.6905	0	0	Peñafosa - Juan Luna				21/10/2004	PCD	ESC
1177	496586.4632	1616078.6496	0	0	Coral - Juan Luna				21/10/2004	PCD	ESC
1178	496467.4607	1616026.2895	20	12	Pella - Zamora	2	1	Clogged drainage	21/10/2004	PCD	ESC
1179	496513.7527	1616176.2413	0	0	Pacheco - Zamora				21/10/2004	PCD	ESC
1180	496440.6281	1616354.2506	20	10	Panday Pira - Franco	2	1	Clogged drainage	21/10/2004	PCD	ESC
1181	496331.7316	1616551.1516	30	12	Dandan - Yangco	2	1	Clogged drainage	21/10/2004	PCD	ESC
1182	496382.6948	1616715.8001	30	12	Herbosa - Yangco	2	1	Clogged drainage	21/10/2004	PCD	ESC
1183	496359.6436	1617045.0299	0	0	Raxa Bago - Capulong				21/10/2004	PCD	ESC
1184	496673.1989	1616622.5971	0	0	Herbosa - Zamora				21/10/2004	PCD	ESC
2001	498668.5601	1609718.5913	30	2	Roxas Blvd. - Lourdes	1	1	Poor drainage system	06/10/2004	RJQ	ESC
2002	498711.4834	1609574.1543	30	4	Roxas Blvd. - San Juan	2	2		06/10/2004	RJQ	ESC
2003	498941.0548	1609639.6665	0	0	121 San Juan St.				06/10/2004	RJQ	ESC
2004	499251.0021	1609731.8871	0	0	1594 San Juan St.				06/10/2004	RJQ	ESC
2005	498418.8167	1609796.4707	0	0	2558 San Juan St.				06/10/2004	RJQ	ESC
2006	498799.8817	1609336.2645	20	2	21 Antipolo St.	1	1		06/10/2004	RJQ	ESC
2007	499041.8636	1609336.1835	0	0	2165 F.B. Harrison				06/10/2004	RJQ	ESC
2008	498980.3227	1608923.7582	50	8	Roxas Blvd. - William	4	4	Clogged drainage	06/10/2004	RJQ	ESC
2009	499057.0888	1608982.1806	20	2	2220 F.B. Harrison	1	1	Poor drainage system	06/10/2004	RJQ	ESC
2010	498934.8577	1608680.6025	10	2	Roxas Blvd. - Libertad	1	1		06/10/2004	RJQ	ESC
2011	499201.4997	1608750.0041	0	0	F.B. Harrison - Libertad				07/10/2004	RJQ	ESC
2012	499023.5173	1608234.4109	0	0	Roxas Blvd. "Patio Madrigal Cmpt."				07/10/2004	RJQ	ESC
2013	499291.0418	1608344.0816	70	4	F.B. Harrison - Galvez	2	2		07/10/2004	RJQ	ESC
2014	499095.7083	1607860.2262	50	2	Roxas Blvd. - Hernandez	1	1		07/10/2004	RJQ	ESC
2015	499361.5065	1608031.1682	30	2	Ignacio - F.B. Harrison	1	1	Poor drainage system	07/10/2004	RJQ	ESC
2016	499659.8102	1608069.4209	10	2	Park Ave. - Ignacio	1	1		07/10/2004	RJQ	ESC
2017	499694.0293	1608431.4642	0	0	Villanueva - Galvez				07/10/2004	RJQ	ESC
2018	499910.5302	1608051.3735	20	2	Taft Ave. - Vargel	1	1		07/10/2004	RJQ	ESC
2019	500097.7738	1608188.0637	30	2	Zamora - Francisco	1	1	Clogged drainage	07/10/2004	RJQ	ESC
2020	500170.5537	1608193.1903	20	2	Tramo Line - Francisco	1	1	Poor drainage system, clogged	07/10/2004	RJQ	ESC
2021	499835.9791	1608381.5922	50	2	Taft Ave. corner Protacio	1	1		07/10/2004	RJQ	ESC
2022	499999.3594	1608410.7691	S	2	Zamora - Protacio	1	1	Clogged drainage	07/10/2004	RJQ	ESC
2023	499776.2923	1608586.9258	40	2	Taft Ave. - Raymundo	1	1	Clogged drainage	07/10/2004	RJQ	ESC

# SUMMARY OF INUNDATION SURVEY RESULTS (5/21)

ID No.	Location			Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
	X	Y										
2024	499715.3603	1608926.5175		20	2	Taft Ave. - Arnaiz Ave.	1	1		07/10/2004	RJQ	ESC
2025	499465.3086	1608841.0615		0	0	Park Ave. - Arnaiz Ave.				07/10/2004	RJQ	ESC
2026	499225.3181	1608960.5776		20	2	Zamora - Libertad	1	1	Heavy rains	08/10/2004	RJQ	ESC
2027	499964.0488	1608671.4829		20	3	Zamora - Inocencio	1	1	Poor drainage system, clogged	08/10/2004	RJQ	ESC
2028	499943.8822	1608654.7218		50	2	Tengco - Zamora	1	1	Poor drainage system, clogged	08/10/2004	RJQ	ESC
2029	500316.0778	1608842.6038		40	8	Aurora - Facundo	4	4	Poor drainage system, clogged canals	08/10/2004	RJQ	ESC
2030	500545.2007	1608574.5944		20	4	Toleitino - Rodriguez	2	2	Poor drainage system, clogged	08/10/2004	RJQ	ESC
2031	500514.6100	1608333.8794		40	5	Toleitino - De Jesus	2	2	Poor drainage system, clogged	08/10/2004	RJQ	ESC
2032	500449.8983	1608069.9807		20	2	Vergel - Cabrera	1	1	Poor drainage system, clogged	08/10/2004	RJQ	ESC
2033	500265.5632	1608081.9881		40	0	Vergel - Dimasalang	1	1	Poor drainage system, clogged	08/10/2004	RJQ	ESC
2034	500695.6902	1608261.0288		0	0	Gamban - Camia				08/10/2004	RJQ	ESC
2035	500814.6643	1608319.8481		90	10	Sampaguita	2	3	Poor drainage system, clogged	08/10/2004	RJQ	ESC
2036	500651.6022	1608415.4868		20	4	Prohacio - Dela Cruz	2	2	Overbanking of nearby creek	08/10/2004	RJQ	ESC
2037	500668.8329	1608510.6191		20	15	Dela Cruz - Basilio	2	2	Poor drainage system, clogged	08/10/2004	RJQ	ESC
2038	500588.5933	1609029.4862		0	0	2427 Dela Cruz				08/10/2004	RJQ	ESC
2039	500392.1053	1609151.9302		20	2	Dolores - Arnaiz	1	1	Poor drainage system, clogged	08/10/2004	RJQ	ESC
2040	500250.2369	1609251.7099		10	2	Bernie - Hidalgo	1	1	Heavy rains	08/10/2004	RJQ	ESC
2041	500013.3962	1609129.9659		0	0	Tramo - Honorata	1	1		08/10/2004	RJQ	ESC
2042	499994.6075	1609182.9575		30	2	Tramo - Leonardo	1	1	Poor drainage system, clogged	08/10/2004	RJQ	ESC
2043	499932.2063	1609357.9899		20	2	Tramo - Noble	1	1	Poor drainage system	08/10/2004	RJQ	ESC
2044	499831.5977	1609685.1976		50	4	Tramo - Gil Puyat	1	1	Poor drainage system	08/10/2004	RJQ	ESC
2045	499551.7929	1609664.5740		30	2	Taft - Gil Puyat	1	1	Poor drainage system, clogged	08/10/2004	RJQ	ESC
2046	499311.6897	1609454.1530		20	4	Villarcuel - Leveiza	1	1	Poor drainage system, clogged	08/10/2004	RJQ	ESC
2047	499649.0478	1609210.0422		10	2	Fernando - Taft	1	1	Poor drainage system	08/10/2004	RJQ	ESC
2048	500112.8829	1609714.7919		0	0	Finlandia - Bautista				10/10/2004	RJQ	ESC
2049	500040.8197	1609526.3356		0	0	Marconi - Morse				10/10/2004	RJQ	ESC
2050	500183.6141	1609422.1789		80	2	Marconi - Bobcock	1	1	Overbanking of nearby creek	10/10/2004	RJQ	ESC
2051	500424.6749	1609308.0371		20	2	Marconi - Grandeur	1	1	Poor drainage system	10/10/2004	RJQ	ESC
2052	500258.0064	1609547.0924		0	0	Aragon - Edison				10/10/2004	RJQ	ESC
2053	500435.1353	1609657.8462		20	2	Galvani - Faraday	1	1	Low-lying area	10/10/2004	RJQ	ESC
2054	500439.0493	1609443.4792		20	2	Rocketteller - Connecticut	1	1	Heavy rains	10/10/2004	RJQ	ESC
2055	500575.7973	1609288.8097		20	2	Newton - Edison	1	1	Poor drainage system	10/10/2004	RJQ	ESC
2056	500649.8408	1609230.8796		20	2	Batangas - Arnaiz	1	1	Poor drainage system	10/10/2004	RJQ	ESC
2057	500704.6825	1609580.5099		20	2	Binay - Honduras	1	1		10/10/2004	RJQ	ESC
2058	500778.2330	1609766.8142		40	3	South Super Highway - Faraday	1	1	Overbanking of nearby creek	10/10/2004	RJQ	ESC
2059	500729.7149	1609519.3206		0	0	2620 Rocketteller				10/10/2004	RJQ	ESC
2060	500787.6658	1609262.4420		0	0	Binay - Arnaiz				10/10/2004	RJQ	ESC
2061	500959.4628	1609295.0241		0	0	4942 Arnaiz Ave.				10/10/2004	RJQ	ESC
2062	500956.6808	1609426.3202		30	2	Van Buren - South Super Highway	1	1	Heavy rains	10/10/2004	RJQ	ESC
2063	500950.0925	1609177.2070		0	0	Cuangco - Evangelista				10/10/2004	RJQ	ESC
2064	500747.3969	1609119.4794		20	2	Mayor - Cuangco	1	1	Overbanking of nearby creek	14/10/2004	RJQ	ESC
2065A	500847.1823	1609102.1502		0	0	Arquiles - Reyes				14/10/2004	RJQ	ESC
2065B	500965.1203	1609115.3490		20	2	Aguilles (between Reyes - Evangelista)	1	1	Poor drainage	14/10/2004	RJQ	ESC
2066	501104.8530	1609078.4332		10	2	Apollinario - Calhoun	1	1	Heavy rains	14/10/2004	RJQ	ESC
2067	501009.8905	1609399.2352		10	2	Tinco - Evangelista	1	1	Clogged drainage	14/10/2004	RJQ	ESC
2068	500863.6288	1608960.6986		30	2	Mojica - Binay	1	1	Clogged drainage	14/10/2004	RJQ	ESC
2069	501153.2114	1608952.4158		20	2	Mascardo - Apollinario	1	1	Poor drainage system, clogged	14/10/2004	RJQ	ESC
2070	500937.7592	1608760.6409		0	0	Reyes - Malvar				14/10/2004	RJQ	ESC
2071	501238.4674	1608782.7715		0	0	Macabulos (near South Super Hwy)				14/10/2004	RJQ	ESC
2072	501052.4408	1608664.2556		20	2	Estrella - Evangelista	1	1	Overbanking of nearby creek	15/10/2004	RJQ	ESC
2073	501200.7367	1608633.5544		20	2	Luna - Apollinario	1	1	Overbanking of nearby creek	15/10/2004	RJQ	ESC
2074	500963.8114	1608539.1815		30	4	Lucban - Reyes	2	2	Overbanking of nearby creek	15/10/2004	RJQ	ESC

# SUMMARY OF INUNDATION SURVEY RESULTS (6/21)

ID No.	Location		Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
2075	501332.0674	1608547.0656	10	2	Rodriguez - Lim	1	1	Overbanking of nearby creek, poor drainage, clogged	15/10/2004	RJQ	ESC
2076A	501248.8717	1608412.7532	10	2	Hizon - Apolinario	1	1	Poor drainage system, clogged	15/10/2004	RJQ	ESC
2076B	501162.3645	1608395.4564	20	2	Hizon - Santos	1	1		15/10/2004	RJQ	ESC
2077	501015.7011	1608379.8648	20	2	Reyes - Hizon	1	1	Poor drainage system, clogged	15/10/2004	RJQ	ESC
2078	500917.1578	1608271.8038	40	2	Biay - Del Pilar	1	1	Poor drainage system, clogged	15/10/2004	RJQ	ESC
2079	501138.0040	1608288.4030	20	2	Del Pilar - Evangelista	1	1	Poor drainage system, clogged	15/10/2004	RJQ	ESC
2080	501503.1837	1608394.3407	0	0	Del Pilar (near South Super Hwy)				18/10/2004	RJQ	ESC
2081	501502.7989	1609078.5867	20	2	Rodriguez - EDSA	1	1	Heavy rains	18/10/2004	RJQ	ESC
2082	501290.0600	1608211.4180	10	2	Apolinario - Caliles	1	1	Poor drainage system, clogged	18/10/2004	RJQ	ESC
2083	501040.0364	1608120.3742	40	2	Bonifacio - Reyes	1	1	Low-lying, clogged drainage	18/10/2004	RJQ	ESC
2084	501170.8623	1608040.0265	0	0	Evangelista - Alejandro				18/10/2004	RJQ	ESC
2085	499124.2716	1607497.1534	30	2	Ortigas - Roxas Blvd.	1	1	Poor drainage system	18/10/2004	RJQ	ESC
2086	499152.8860	1607206.7483	30	2	Redemptorist - Roxas Blvd.	1	1	Poor drainage system	18/10/2004	RJQ	ESC
2087	499175.2117	1606871.4873	30	2	Riviera - Roxas Blvd.	1	1	Clogged drainage, heavy rains	18/10/2004	RJQ	ESC
2088	499198.7988	1606529.0702	30	2	Claudio - Roxas Blvd.	1	1	Heavy rains	18/10/2004	RJQ	ESC
2089	499194.3103	1606111.3737	10	1	Avelino - Roxas Blvd.	30 min	30 min	Heavy rains	19/10/2004	RJQ	ESC
2090	499184.6613	1605928.6666	20	2	Bayview Drive - Roxas Blvd.	1	1	Heavy rains	19/10/2004	RJQ	ESC
2091	499164.6626	1605604.4013	10	2	NAIA Road - Roxas Blvd.	1	1	Heavy rains	19/10/2004	RJQ	ESC
2092	499453.8647	1605566.0876	10	2	NAIA Road - Quirino	1	1	Clogged drainage	19/10/2004	RJQ	ESC
2093	499498.1099	1605915.1614	10	1	Bayview Drive - Quirino	30 min	30 min		19/10/2004	RJQ	ESC
2094	499512.5475	1606194.5724	0	0	Clipper - Quirino				19/10/2004	RJQ	ESC
2095	499535.1735	1606537.7632	0	0	Claudio - Quirino				19/10/2004	RJQ	ESC
2096	499532.9777	1607004.4729	30	2	Dinasalang - Quirino	1	1	Overbanking of nearby creek, poor drainage	19/10/2004	RJQ	ESC
2097	499646.7550	1607135.2635	50	2	Bagong Ilog - Bagong Buhay	1	1	Poor drainage system	19/10/2004	RJQ	ESC
2098	499743.3142	1607048.3905	30	2	Bagong Sikat - Bagong Lipunan	1	1	Poor drainage, heavy rains	19/10/2004	RJQ	ESC
2099	499516.0887	1607250.0781	30	2	Taft Ave. Ext. - F.B. Harrison	1	1	Poor drainage system	19/10/2004	RJQ	ESC
2100	499450.4314	1607524.2995	20	2	Captain Ambo - F.B. Harrison	1	1	Poor drainage system	20/10/2004	RJQ	ESC
2101	499716.2791	1607489.4927	30	2	Taft Ave. Ext.	1	1	Poor drainage system	20/10/2004	RJQ	ESC
2102	499908.9152	1606427.0245	30	2	Parking B Exit along Domestic Road	1	1	Heavy rains	20/10/2004	RJQ	ESC
2103A	499945.8703	1606090.8636	0	0	LTO Compound, Domestic Road				20/10/2004	RJQ	ESC
2103B	499837.2312	1606675.9265	0	0	Andrew Ave. - Domestic Road				20/10/2004	RJQ	ESC
2104	499956.8245	1605994.4355	0	0	Domestic Road				20/10/2004	RJQ	ESC
2105	499952.6427	1605537.7201	10	1	NAIA Road - Domestic Road	30 min	30 min	Heavy rains	20/10/2004	RJQ	ESC
2106	500375.6283	1606746.3479	0	0	Andrews Ave. (near Aurora Blvd.)				20/10/2004	RJQ	ESC
2107	500346.7373	1607012.3200	10	2	St. Augustine - Aurora Blvd.	1	1	Heavy rains	20/10/2004	RJQ	ESC
2108	500475.2625	1607045.7671	0	0	St. Augustine				20/10/2004	RJQ	ESC
2109	500669.5128	1607095.5392	0	0	St. Bernadette				20/10/2004	RJQ	ESC
2110	500766.6519	1607061.8744	0	0	St. Andrew				20/10/2004	RJQ	ESC
2111	500860.6484	1607138.4407	30	2	1589 C. de Guzman	1	1	Overbanking of nearby creek, poor drainage	21/10/2004	RJQ	ESC
2112	501057.3546	1607012.7155	100	8	Mulawin St.	4	4	Overbanking of nearby creek, poor drainage	21/10/2004	RJQ	ESC
2113	501092.1898	1606900.3040	40	3	Mulawin Ext.	1	1	Overbanking of nearby creek, poor drainage	21/10/2004	RJQ	ESC
2114	500575.0820	1607522.7870	10	1	Cornejo - Rodriguez	30 min	30 min		21/10/2004	RJQ	ESC
2115	500235.9874	1607390.1538	0	0	Aurora Blvd.				21/10/2004	RJQ	ESC
2116	500223.7503	1607621.0840	0	0	Aurora Blvd. - Ildro				21/10/2004	RJQ	ESC
2117	500736.4297	160759.6118	10	1	F. Cruz - E. Rodriguez	30 min	30 min	Heavy rains	21/10/2004	RJQ	ESC
2118	501015.5405	1607916.0916	0	0	EDSA					RJQ	ESC
2119	501402.1393	1607950.0469	0	0	Victoria - Magallanes					RJQ	ESC
2120	501101.5381	1609478.1592	10	1	Washington - Hoover	30 min	30 min	Heavy rains	21/10/2004	RJQ	ESC
2121	501339.2784	1609558.7292	20	2	Fernando - Chino Roces	1	1	Poor drainage	21/10/2004	RJQ	ESC
2122	501087.8422	1609721.9450	0	0	Javier St.				21/10/2004	RJQ	ESC
2123	501315.1169	1609734.3548	20	2	Javier - Chino Roces	1	1	Poor drainage system	21/10/2004	RJQ	ESC
2124	500037.7353	1606781.4252	10	1	Airport Road - Andrews Ave.				21/10/2004	RJQ	ESC

# SUMMARY OF INUNDATION SURVEY RESULTS (7/21)

ID No.	Location		Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
	X	Y									
2125	50037.8263	1606976.2398	20	2	near Tripa de Gallina Pumping Station				21/10/2004	RJQ	ESC
2126	499864.5283	1607197.3685	0	0	Cornet - Bonanza				21/10/2004	RJQ	ESC
3001	497641.9886	1615315.4829	100	12	Doroteo Jose - T. Alonzo	1	10	Overbanking of nearby creek, poor drainage system	07/10/2004	MST	ESC
3002	497672.1236	1615586.6598	10	2	Fugoso - T. Alonzo	1	1	Overbanking of nearby creek	07/10/2004	MST	ESC
3003	497825.4113	1615584.1479	10	2	Fugoso - T. Mapua	< 1	< 1	Overbanking of nearby creek, poor drainage system	07/10/2004	MST	ESC
3004	498031.4702	1615566.5717	10	2	Oroqueta - Fugoso	< 1	< 1	Poor drainage system	07/10/2004	MST	ESC
3005	498157.5525	1615541.5281	50	3	P. Guevara - Fugoso	1	2	Poor drainage system	07/10/2004	MST	ESC
3006	498167.6041	1615749.9318	70	14	P. Guevara - Remigio	1	6	Poor drainage system	07/10/2004	MST	ESC
3007	498049.0606	1615774.9753	50	18	Oroqueta - Remigio	1	1	Poor drainage system	07/10/2004	MST	ESC
3008	497837.9759	1615790.0407	10	15	T. Mapua - Remigio	< 1	< 1	Poor drainage system	07/10/2004	MST	ESC
3009	497792.7434	1615297.9057	0	0	Doroteo Jose - T. Mapua	< 1	< 1		07/10/2004	MST	ESC
3010	498001.3152	1615287.8631	S	1	Doroteo Jose - Oroqueta	< 1	< 1		07/10/2004	MST	ESC
3011	497914.1353	1615129.8465	40	4	Recto - Avenida	< 1	< 1	Poor drainage system	07/10/2004	MST	ESC
3012	498097.4894	1615080.6145	40	8	Recto - Evangelista	1	1	Poor drainage system	07/10/2004	MST	ESC
3013	498029.5658	1614574.9952	20	15	Platerias - Carriedo	1	7	Poor drainage system	07/10/2004	MST	ESC
3014	498041.3222	1614322.2878	0	0	Echague, Quiapo				07/10/2004	MST	ESC
3015	497964.0269	1614434.2503	30	3	C. Palanca - Orusco	1	1	Overbanking of nearby river	07/10/2004	MST	ESC
3016	497703.4140	1615146.2326	0	0	San Bernardo - C.M. Recto				08/10/2004	MST	ESC
3017	497593.7103	1615061.8759	0	0	Soler - T. Alonzo				08/10/2004	MST	ESC
3018	497428.2469	1615112.6208	0	0	Soler - Gardara				08/10/2004	MST	ESC
3019	497241.8595	1615184.4377	0	0	Soler, near Magdalena Creek				08/10/2004	MST	ESC
3020	497101.2075	1615227.9554	0	0	Soler - Reina Regente				08/10/2004	MST	ESC
3021	496909.7297	1615308.3167	10	2	Soler - Roman	< 1	< 1	Poor drainage system	08/10/2004	MST	ESC
3022	496735.9055	1615363.4621	0	0	Soler - C.M. Recto				08/10/2004	MST	ESC
3023	496998.3030	1615442.6148	0	0	C.M. Recto - A. Rivera				08/10/2004	MST	ESC
3024	497143.6921	1615391.0390	0	0	C.M. Recto - Abad Santos				08/10/2004	MST	ESC
3025	497274.2511	1615333.8066	0	0	C.M. Recto, near Magdalena Creek				08/10/2004	MST	ESC
3026	497521.6273	1615232.1168	0	0	C.M. Recto, near Estero de San Lazaro				08/10/2004	MST	ESC
3027	497365.9933	1615295.9571	30	5	C.M. Recto - Masangkay	1	2	Poor drainage system	08/10/2004	MST	ESC
3028	497642.8579	1614680.4708	0	0	Dasmariñas - Tetuan				08/10/2004	MST	ESC
3029	497646.9446	1614848.9704	0	0	Ongpin - T. Mapua				09/10/2004	MST	ESC
3030	497750.9918	1614544.9946	S	2	Foot of McArthur Bridge, near Muelle dela Industria	< 1	1		09/10/2004	MST	ESC
3031	497843.9331	1614819.3636	20	4	Puyat - Avenida	1	1	Poor drainage system	09/10/2004	MST	ESC
3032	497410.2261	1614908.0043	0	0	Gandara - Ongpin				09/10/2004	MST	ESC
3033	497395.6430	1614754.3955	0	0	Gandara - Tetuan				09/10/2004	MST	ESC
3034	497384.6062	1614678.5066	0	0	Gandara - T. Pipin				09/10/2004	MST	ESC
3035	497519.8023	1614591.3729	0	0	Dasmariñas - T. Pipin				09/10/2004	MST	ESC
3036	497575.9256	1614503.1190	0	0	Escolla - T. Pipin				09/10/2004	MST	ESC
3037	497416.4493	1614373.1394	10	3	Escolla - Nueva	1	1		09/10/2004	MST	ESC
3038	497285.5375	1614452.0742	S	2	Dasmariñas - Q. Paredes	< 1	< 1	Overbanking of nearby creek, poor drainage system	09/10/2004	MST	ESC
3039	497138.9291	1614701.7057	S	2	Q. Paredes - Ongpin	< 1	< 1	Poor drainage system	09/10/2004	MST	ESC
3040	497043.6225	1614691.9232	S	2	San Fernando - Juan Luna	< 1	< 1	Poor drainage system	09/10/2004	MST	ESC
3041	496649.0116	1615350.6368	20	5	C.M. Recto - Juan Luna	< 1	< 1		10/10/2004	MST	ESC
3042	496794.4051	1615104.5014	0	0	Sta. Elena - Juan Luna		3		10/10/2004	MST	ESC
3043	496986.7277	1614799.0023	0	0	Juan Luna - Plaza Ruiz				10/10/2004	MST	ESC
3044	496784.3839	1614797.8066	0	0	San Nicolas - Sto. Cristo				10/10/2004	MST	ESC
3045	496851.7504	1614860.2425	0	0	San Nicolas - Muelle de Bimondo				10/10/2004	MST	ESC
3046	496629.9286	1614680.0949	0	0	San Nicolas - Asuncion				10/10/2004	MST	ESC
3047	496466.7965	1614557.8490	0	0	San Nicolas - Barcelona				10/10/2004	MST	ESC
3048	496428.2303	1614363.0739	30	4	Delpan - Jaboreros	< 1	3		10/10/2004	MST	ESC
3049	496678.8486	1614361.4984	50	7	Madrid - Muelle dela Industria	1	6	Overbanking of nearby river, poor drainage system	10/10/2004	MST	ESC

# SUMMARY OF INUNDATION SURVEY RESULTS (8/21)

ID No.	Location		Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
	X	Y									
3050	496335.8306	1614311.8189	30	6	Numancia - Muelle de la Industria	< 1	5	Overbanking of nearby river, poor drainage system	10/10/2004	MST	ESC
3051	497097.0896	1614362.9906	0	0	Dasmariñas - Muelle de Binondo				10/10/2004	MST	ESC
3052	496760.8279	1614516.1251	0	0	San Fernando - Numancia				10/10/2004	MST	ESC
3053	497876.2392	1614533.2911	20	12	C. Palanca - Estero Cegado	< 1	12	Poor drainage system	10/10/2004	MST	ESC
3054	498007.1122	1614763.5862	20	6	Raon - Evangelista	1	4	Poor drainage system	10/10/2004	MST	ESC
3055A	497503.7584	1615564.0608	0	0	Masangkay - La Torre				11/10/2004	MST	ESC
3055B	497222.2425	1615919.9849	0	0	Masangkay - Bambang				11/10/2004	MST	ESC
3056	497626.8911	1615754.8883	0	0	Masangkay - Mayhaligue				11/10/2004	MST	ESC
3057	497367.0075	1615618.0124	0	0	Narcisa - La Torre				11/10/2004	MST	ESC
3058	497402.7536	1615821.9913	0	0	Narcisa - Mayhaligue				11/10/2004	MST	ESC
3059	497257.0399	1615842.6270	30	12	Abad Santos - Mayhaligue	1	10	Poor drainage system	11/10/2004	MST	ESC
3060	497219.1966	1615621.1108	30	12	La Torre - Abad Santos	1	10		11/10/2004	MST	ESC
3061	497011.4796	1615631.7687	30	2	A. Rivera - La Torre	1	< 1		11/10/2004	MST	ESC
3062	497068.8024	1615869.5063	30	12	Mayhaligue - A. Rivera	1	10	Poor drainage system	11/10/2004	MST	ESC
3063	497061.8868	1614972.1598	S	< 1	Reina Regente, near Barangay Hall	< 1	< 1	Heavy rains	12/10/2004	MST	ESC
3064	496504.9405	1615165.0617	20	5	C.M. Recto - Pulgueras	1	2	Poor drainage system	12/10/2004	MST	ESC
3065	496352.2351	1614999.9358	20	3	C.M. Recto - Asuncion	1	1		12/10/2004	MST	ESC
3066	496479.5564	1614850.5617	0	0	Clavel - Asuncion				12/10/2004	MST	ESC
3067	496199.0252	1614837.3609	0	0	Sevilla - C.M. Recto				12/10/2004	MST	ESC
3068	496303.7176	1614681.7677	0	0	Clavel - Sevilla				12/10/2004	MST	ESC
3069	496602.8930	1614968.3384	30	12	Clavel - Sto. Cristo	2	9		12/10/2004	MST	ESC
3070	496892.1293	1615904.6483	0	0	Mayhaligue - Dagupan				16/10/2004	MST	ESC
3071	496846.4305	1615734.3113	0	0	Dagupan Moriones				16/10/2004	MST	ESC
3072	496661.6765	1615769.2296	20	3	Moriones - Elena	< 1	1	Poor drainage system	16/10/2004	MST	ESC
3073	496556.1273	1615939.1073	50	15	Juan Luna - Pavia	< 1	12	Poor drainage system	16/10/2004	MST	ESC
3074	496526.7094	1615783.9691	30	4	Juan Luna - Moriones	< 1	2	Poor drainage system	16/10/2004	MST	ESC
3075	496538.2211	1615983.4286	50	20	Juan Luna - P. Herrera	< 1	18	Poor drainage system	16/10/2004	MST	ESC
3076	496388.4190	1615804.6281	50	15	N. Zamora - Moriones	< 1	7	Poor drainage system	16/10/2004	MST	ESC
3077	496343.1082	1615630.7515	60	22	Chacon - N. Zamora	< 1	20	Poor drainage system	16/10/2004	MST	ESC
3078	496353.1001	1615492.8910	20	7	P. Herrera - Yaya	< 1	12		16/10/2004	MST	ESC
3079	496305.1910	1615261.8090	20	6	Rada - Sto. Cristo	1	1		16/10/2004	MST	ESC
3080	496224.7757	1615124.1240	S	6	Zaragoza - Asuncion	< 1	4	Poor drainage system	16/10/2004	MST	ESC
3081	496136.4965	1615404.8711	0	0	Lakandula - Asuncion				16/10/2004	MST	ESC
3082	496133.3650	1615661.1166	0	0	Asuncion - Murga				16/10/2004	MST	ESC
3083	496242.7158	1615818.7330	60	20	Moriones - Sta. Maria	< 1	12	Poor drainage system	16/10/2004	MST	ESC
3084	496039.7649	1615793.6676	30	12	Hernandez - Moriones	1	10	Poor drainage system	16/10/2004	MST	ESC
3085	495861.3894	1615788.9439	40	12	Masinop - Moriones	1	10	Poor drainage system	16/10/2004	MST	ESC
3086	495935.5121	1615625.2435	30	20	Wagas - Tuazon	< 1	15	Poor drainage system	16/10/2004	MST	ESC
3087	495797.3236	1615603.4819	60	20	Tuazon - Kagitingan	< 1	15	Poor drainage system	16/10/2004	MST	ESC
3088	496011.5529	1615339.1982	0	0	Lakandula - Wagas				16/10/2004	MST	ESC
3089	496013.4036	1615035.3040	0	0	Zaragoza - Delpan				16/10/2004	MST	ESC
3090	495843.8752	1615014.7860	0	0	Zaragoza - Kagitingan				16/10/2004	MST	ESC
3091	495852.4825	1614796.3349	0	0	Delpan - Kagitingan				16/10/2004	MST	ESC
3092	495830.3936	1615248.3850	0	0	Lakandula - Kagitingan				16/10/2004	MST	ESC
3093	495707.5067	1615008.8884	0	0	Road 10 - Zaragoza				16/10/2004	MST	ESC
3094	495701.6586	1615231.4024	0	0	Road 10 - Lakandula				16/10/2004	MST	ESC
3095	495708.4169	1615429.6435	40	12	Sandico - Mabuay	< 1	10	Poor drainage system	16/10/2004	MST	ESC
3096	495661.9117	1615751.4510	30	16	Road 10 - Moriones	1	14	Poor drainage system	16/10/2004	MST	ESC
3097	496064.3467	1614710.0909	0	0	Delpan - C.M. Recto				18/10/2004	MST	ESC
3098	496310.6050	1614529.2900	0	0	Delpan - Valderama				18/10/2004	MST	ESC
3099	497076.9058	1614083.1489	0	0	Aduana - Magallanes				18/10/2004	MST	ESC
3100	497515.1024	1614036.9737	S	30 min	Anda - Magallanes				18/10/2004	MST	ESC

# SUMMARY OF INUNDATION SURVEY RESULTS (9/21)

ID No.	Location			Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
	X	Y										
3101	497310.4618	1613878.8199		20	5	Anda - Ledaspi	2	1		18/10/2004	MST	ESC
3102	497697.8926	1614024.5495		0	0	Basa St.				18/10/2004	MST	ESC
3103	497673.3104	1614089.6189		20	22	Lawton (near Metropolitan Theater)	<1	10	Poor drainage system	18/10/2004	MST	ESC
3104	497853.9694	1614005.4800	S	8	3	Lion's Road, Manila	<1	1		18/10/2004	MST	ESC
3105	498183.4069	1614244.1781		0	0	Elizondo St.				18/10/2004	MST	ESC
3106	498154.5514	1614458.6823		0	0	Hidalgo - Elizondo				18/10/2004	MST	ESC
3107	498177.2225	1614768.0699		20	22	G. Puyat - D. Guzman	<1	8	Clogged drainage	18/10/2004	MST	ESC
3108	498173.5056	1614869.2319		0	0	Coromina - Soler Ext.				18/10/2004	MST	ESC
3109	498154.9987	1615049.2456		0	0	Andalucia - C.M. Recto				18/10/2004	MST	ESC
3110	496270.0175	1616085.5639	40	10	0	Sta. Maria - Perla	1	1		20/10/2004	MST	ESC
3111	496279.3590	1616242.3875	30	12		Sta. Maria - Pacheco	<1	<1	Clogged drainage	20/10/2004	MST	ESC
3112	496284.3627	1616405.1241	20	10		Sta. Maria - Panday Pira	<1	<1	Clogged drainage	20/10/2004	MST	ESC
3113	496185.8738	1616435.3391	20	8		Varona - Panday Pira	<1	2	Clogged drainage	20/10/2004	MST	ESC
3114	496189.4617	1616265.8238	0	0		Varona - Pacheco				20/10/2004	MST	ESC
3115	496023.9466	1616294.6075	0	0		Pacheco - Lacson				20/10/2004	MST	ESC
3116	495897.2522	1616293.3708	0	0		Pacheco - Osmeña				20/10/2004	MST	ESC
3117	495843.3354	1616082.7540	20	9		Chesa - Quezon	<1	<2	Clogged drainage	20/10/2004	MST	ESC
3118	495593.3145	1616057.8623	30	8		Road 10 - Chesa	<1	1	Clogged drainage	20/10/2004	MST	ESC
3119	495567.9590	1616313.4170	10	10		Road 10 - Pacheco	<1	1	Clogged drainage	20/10/2004	MST	ESC
3120	495720.2323	1616328.4356	0	0		Pacheco - Garcia				20/10/2004	MST	ESC
3121	496155.6504	1616606.7576	30	10		Dandan - Varona	<1	1	Clogged drainage	20/10/2004	MST	ESC
3122	496124.6361	1616769.6773	30	12		Varona - Herbosa	<1	2	Clogged drainage	20/10/2004	MST	ESC
3123	495937.0884	1616733.4964	30	11		Herbosa - Mala	<1	2	Clogged drainage	20/10/2004	MST	ESC
3124	495777.8117	1616702.9747	30	12		Herbosa - Quezon	<1	2	Clogged drainage	20/10/2004	MST	ESC
3125	495538.6088	1616672.1028	10	12		Road 10 - Herbosa	<1	1	Clogged drainage	20/10/2004	MST	ESC
3126	495535.6684	1616963.2880	0	0		Road 10 - C-2				20/10/2004	MST	ESC
3127	495710.3534	1616932.3793	0	0		C-2 - Roxas				20/10/2004	MST	ESC
3128	495904.2224	1616891.4904	0	0		C-2 - Mata				20/10/2004	MST	ESC
3129	496128.6772	1616977.4907	0	0		C-2 - Velasquez				20/10/2004	MST	ESC
3130	496048.8117	1617304.0679	30	10		Ugbo - Velasquez	<1	2	Clogged drainage	20/10/2004	MST	ESC
3131	495884.5776	1617385.4098	0	0		Jacinto - Vitas				20/10/2004	MST	ESC
3132	495805.9496	1617637.0933	30	12		Vitas - Bonifacio	<1	2		20/10/2004	MST	ESC
3133	495598.0526	1617524.9518	0	0		Bonifacio - Roxas				20/10/2004	MST	ESC
3134	495681.8836	1617286.2886	0	0		Jacinto - Roxas				20/10/2004	MST	ESC
3135	495911.7076	1617166.5241	0	0		Lacson - Romaria				20/10/2004	MST	ESC
4001	497654.7955	1614178.9357	0	0		Post Office Central, Lawton				06/10/2004	JAD	ESC
4002	497249.3367	1613822.7111	S	30 min		Anda - Solana	5 min	15 min	Garbage	06/10/2004	JAD	ESC
4003	497409.3706	1614023.0929	0	0		Anda - Muralla				06/10/2004	JAD	ESC
4004	497206.1352	1614074.0485	10	1		Muralla (BFI)	20 min	30 min	Rain	06/10/2004	JAD	ESC
4005	497363.1354	1613574.0170	S	2		Magallanes - Sta. Potenciana	1	1	Poor drainage system, clogged	06/10/2004	JAD	ESC
4006	497153.9159	1613564.3699	0	0		Real - Gen. Luna				06/10/2004	JAD	ESC
4007	497135.2837	1613337.1845	S	1		Sta. Potenciana - Sta. Lucia	5 min	20 min	Garbage	06/10/2004	JAD	ESC
4008	496896.5251	1613734.7025	0	0		Comelec, Intramuros				06/10/2004	JAD	ESC
4009	497570.6679	1612330.1747	20	2		Roxas Blvd. (Bayview Hotel)	5 min	20 min	Poor drainage system	07/10/2004	JAD	ESC
4010A	497705.5480	1612260.2654	0	0		M.H. Del Pilar - Arquilza				07/10/2004	JAD	ESC
4010B	497804.7405	1612306.7704	S	1		Mabini - Arquiza				07/10/2004	JAD	ESC
4011	497899.3071	1612242.4454	0	0		Adriatico - Padre Faura				07/10/2004	JAD	ESC
4012	497895.7746	1612609.7828	0	0		UN - M. Orosa				07/10/2004	JAD	ESC
4013	498047.2941	1612329.1439	S	1		Padre Faura - M. Orosa	20 min	30 min	Garbage	07/10/2004	JAD	ESC
4014	497833.4136	1612710.7564	S	1		M. Orosa - Kalaw	5 min	15 min	Poor drainage system, clogged	07/10/2004	JAD	ESC
4015	497723.6459	1612505.9087	0	0		UN - Mabini				07/10/2004	JAD	ESC

# SUMMARY OF INUNDATION SURVEY RESULTS (10/21)

ID No.	Location		Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
4016	497902.5935	1612071.3252	S	1	Mabini - Sta. Monica	15 min	25 min	Continuous rain	07/10/2004	JAD	ESC
4017A	497322.6956	1613374.5603	20	1	Gen. Luna - Victoria	15 min	45 min	Continuous rain	07/10/2004	JAD	ESC
4017B	497386.0499	1613428.0751	S	1	Cabildo - Victoria				07/10/2004	JAD	ESC
4017C	497445.5418	1613475.5917	S	1	Magallanes - Victoria				07/10/2004	JAD	ESC
4018	497444.1596	1613226.9826	S	1	Muralia - Gen. Luna (PLM)	20 min	1	Continuous rain	07/10/2004	JAD	ESC
4019	497566.8493	1613413.5619	S	1	Muralia (Marilla Bulletin)	10 min	30 min	Poor drainage system, clogged	07/10/2004	JAD	ESC
4020	497571.6784	1613572.1693	S	30 min	Muralia (Mapua High School)	5 min	25 min	Poor drainage system	07/10/2004	JAD	ESC
4021	497531.8491	1613767.2014	S	1	Muralia (Lyceum)			Continuous rain	07/10/2004	JAD	ESC
4022	498154.9246	1612898.7993	S	1	T.M. Kalaw - Taft Ave.	10 min	30 min	Poor drainage system, clogged	07/10/2004	JAD	ESC
4023	498216.2008	1612773.1687	10	2	Taft Ave. - UN	1	1	Garbage	07/10/2004	JAD	ESC
4024	498358.7352	1612491.5003	S	2	Taft Ave. - Padre Faura	10 min	1	Poor drainage system, clogged	07/10/2004	JAD	ESC
4025	498678.9032	1612108.3836	0	0	Leon Guinto - Pedro Gil				08/10/2004	JAD	ESC
4026A	499001.4466	1612246.5328	0	0	Singalong - Pedro Gil				08/10/2004	JAD	ESC
4026B	499122.2894	1612302.3298	10	1	Pedro Gil - Angel Linao				08/10/2004	JAD	ESC
4026C	499054.1128	1612125.3197	10	1	Malvar - Singalong				08/10/2004	JAD	ESC
4027	499006.1885	1612414.0714	S	2	Gen. Luna - Escoda	1	1	Continuous rain	08/10/2004	JAD	ESC
4028A	498741.5533	1612326.2944	0	0	Escoda - San Marcelino				08/10/2004	JAD	ESC
4028B	498672.7161	1612285.8416	10	2	Escoda - Agoncillo	1	1	Clogged drainage	08/10/2004	JAD	ESC
4029	498590.8255	1612436.5156	20	1	Agoncillo - Apacible	30 min	30 min	Poor drainage system, clogged	08/10/2004	JAD	ESC
4030	498517.7740	1612202.0319	20	2	Taft Ave. - Escoda	30 min	30 min		08/10/2004	JAD	ESC
4031	498866.7958	1612553.6078	50	48	Apacible (near Perez)	1	12	Clogged drainage, water stagnant	08/10/2004	JAD	ESC
4032	498991.3948	1612599.7027	20	2	Apacible - Apacible	1	1	Clogged drainage, garbage	08/10/2004	JAD	ESC
4033	498841.3688	1612744.9303	0	0	Belan - Apacible				08/10/2004	JAD	ESC
4034	498773.0219	1612722.8464	0	0	Looban - Belan				08/10/2004	JAD	ESC
4035	498634.3830	1612576.9284	0	0	Perez - Belan				08/10/2004	JAD	ESC
4036	498932.0843	1613030.6312	0	0	Belan - Gen. Luna				08/10/2004	JAD	ESC
4037A	498717.2386	1612953.7905	0	0	UN - Tanque				08/10/2004	JAD	ESC
4037B	498772.6742	1612976.0273	20	< 1	Looban - UN				08/10/2004	JAD	ESC
4037C	498592.9431	1612909.2434	50	1	Correa - UN				08/10/2004	JAD	ESC
4038	498386.9544	1613019.6320	0	0	Romualdez - UN				08/10/2004	JAD	ESC
4039	498194.6498	1613487.2240	20	3	T.M. Kalaw - San Marcelino				09/10/2004	JAD	ESC
4040	498404.4163	1613449.2565	40	2	San Marcelino - Ayala Blvd.	30 min	1	Poor drainage system, clogged	09/10/2004	JAD	ESC
4041	498326.0080	1613614.1680	40	2	Romualdez - Zobel	30 min	30 min	Poor drainage system, clogged	09/10/2004	JAD	ESC
4042	498117.4063	1613650.1049	40	2	Ayala Blvd. - Romualdez	30 min	2	Overbanking of nearby creek & garbage	09/10/2004	JAD	ESC
4043	497921.5280	1613655.1500	20	2	N. Lopez - San Marcelino	30 min	20 min	Clogged drainage due to garbage	09/10/2004	JAD	ESC
4044	497898.7972	1613764.3317	40	4	Aroceros - N. Lopez	30 min	3	Clogged drainage due to garbage	11/10/2004	JAD	ESC
4045	497890.2914	1613938.3626	10	1	Veteran's Affairs Office (Aroceros)	30 min	30 min	Poor drainage system, clogged	11/10/2004	JAD	ESC
4046	497726.1786	1613900.6265	20	1	Aroceros (near LRT Central Terminal)	30 min	30 min	Poor drainage system, clogged	11/10/2004	JAD	ESC
4047	497759.3382	1613761.3543	30	1	P. Burgos - Aroceros	30 min	30 min		11/10/2004	JAD	ESC
4048	497915.5099	1613337.5514	0	0	P. Burgos - Concepcion	20 min	30 min		11/10/2004	JAD	ESC
4049	498046.7021	1613265.6641	30	1	Villegas St. (near Manila City Hall)	30 min	30 min		11/10/2004	JAD	ESC
4050	500356.1934	1612447.9679	0	0	Ayala Blvd. (PNU)				11/10/2004	JAD	ESC
4051	500501.4412	1612368.7630	30	1	Pasig Line - Pedro Gil	30 min	30 min	Poor drainage system, clogged	11/10/2004	JAD	ESC
4052	500650.3268	1612235.4352	40	24	Pasig Line - Diamante	30 min	30 min	Poor drainage system, clogged	11/10/2004	JAD	ESC
4053	500795.0580	1612386.0075	30	24	Pasig Line - Francisco				11/10/2004	JAD	ESC
4054	500630.0973	1612622.4960	S	1	Tejeron - Francisco	30 min	30 min	Drainage back-flow	12/10/2004	JAD	ESC
4055	500584.1928	1612807.3327	0	0	M. Carreon - De Las Alas			Poor drainage system, clogged	12/10/2004	JAD	ESC
4056	500460.9103	1612688.2284	0	0	2090 M. Carreon				12/10/2004	JAD	ESC
4057	500655.0318	1612513.6914	20	1	Felix St. (near foot of the bridge)	30 min	30 min	Poor drainage system, clogged	12/10/2004	JAD	ESC
4058	501284.1224	1612694.6278	20	1	Pedro Gil - Tejeron	10 min	< 1	Clogged drainage	12/10/2004	JAD	ESC
4059	501178.9134	1612565.1852	0	0	Pedro Gil - Calderon				12/10/2004	JAD	ESC
4060	501002.4905	1612611.7591	10	2	M. Roxas (near Suter)	30 min	1	Poor drainage system, clogged	12/10/2004	JAD	ESC



# SUMMARY OF INUNDATION SURVEY RESULTS (11/21)

ID No.	Location		Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
4061	501021.9111	1612522.8202	0	0	2291 Siter St. (near Medel)	1	5	Poor drainage, clogged, small outlet, back-flow	12/10/2004	JAD	ESC
4062	501061.8490	1612376.0619	80	24	Medel - Syquia	30 min	2	Poor drainage system, clogged	12/10/2004	JAD	ESC
4063	501022.1911	1612193.4657	50	3	San Andres Ext. - Tejeron	30 min	30 min	Poor drainage system, clogged, back-flow, stagnant	12/10/2004	JAD	ESC
4064	501517.6029	1612864.0562	30	8	New Panaderos St. (near Segovia St.)	30 min	1	Clogged drainage, backflow	12/10/2004	JAD	ESC
4065	501659.1581	1612788.6665	20	3	Azuena - Segovia	10 min	30 min	Back-flow due to high tide	12/10/2004	JAD	ESC
4066	501745.3468	1612759.1727	S	1	Lamayon St. (near Barangay Hall)	10 min	30 min	Back-flow, clogged drainage	12/10/2004	JAD	ESC
4067	501803.4948	1612987.9982	S	1	Lamayon St. (near Elrovilla Town Homes)	30 min	30 min	Clogged drainage	12/10/2004	JAD	ESC
4068	501650.4852	1612713.8946	20	1	Azuena - Lamayan				13/10/2004	JAD	ESC
4069	501692.9450	1612374.8684	0	0	Brgy. Headquaters, Bantay Bayan (MAPSA), Makati				13/10/2004	JAD	ESC
4070	501580.9450	1612374.8684	0	0	Delpan - Domingo				13/10/2004	JAD	ESC
4071	501692.7377	1611997.2088	0	0	A.P. Reyes St.				13/10/2004	JAD	ESC
4072	501547.3458	1612077.3819	0	0	1716 Gulzon St.				13/10/2004	JAD	ESC
4073	501348.1507	1611991.3307	0	0	Cagayan - Mendoza				13/10/2004	JAD	ESC
4074	501271.9732	1612063.3178	0	0	Cagayan - Del Pan				13/10/2004	JAD	ESC
4075	501414.1984	1612204.5314	S	1	E. Pascua - Del Pan	30 min	5 min	Back-flow	13/10/2004	JAD	ESC
4076	501509.7902	1612302.9255	0	0	Nurez - Del Pan				13/10/2004	JAD	ESC
4077	501338.1453	1612279.9105	50	48	Del Pilar - M. Roxas				13/10/2004	JAD	ESC
4078	501246.6181	1612429.2228	0	0	Syquia - M. Roxas				13/10/2004	JAD	ESC
4079	501398.6666	1612465.2018	0	0	2450 Syquia St. (near Hernandez)				13/10/2004	JAD	ESC
4080	501371.1199	1612572.5808	0	0	Isabel - Hernandez				13/10/2004	JAD	ESC
4081	501557.9742	1612563.5544	0	0	2554 Leiva St. (near Sta. Clara St.)				13/10/2004	JAD	ESC
4082	501361.7561	1612882.8773	0	0	Brgy. 889, Old Panaderos, Sta. Ana, Manila				13/10/2004	JAD	ESC
4083	501745.8893	1613103.6519	0	0	Brgy. 889, Old Panaderos, Sta. Ana, Manila				13/10/2004	JAD	ESC
4084	501890.2776	1613150.1912	0	0	Brgy. 889, Old Panaderos, Sta. Ana, Manila				13/10/2004	JAD	ESC
4085	500839.6218	1612470.4303	10	12	Banting - Sufer				13/10/2004	JAD	ESC
4086A	499577.0632	1612289.5817	0	0	Sagat - Peñafrancia				14/10/2004	JAD	ESC
4086B	499574.7751	1612364.7275	30	1	Pedro Gil - Peñafrancia				14/10/2004	JAD	ESC
4087A	499562.9569	1612595.9450	S	1	San Antonio - Peñafrancia				14/10/2004	JAD	ESC
4087B	499573.5047	1612447.8451	20	1	Sepulcro - Peñafrancia				14/10/2004	JAD	ESC
4088	499398.3266	1612653.9014	S	1	Union - San Gregorio	15 min	45 min		14/10/2004	JAD	ESC
4089	499640.7529	1612696.3378	S	1	Figuroa - San Gregorio	15 min	30 min	Clogged drainage	14/10/2004	JAD	ESC
4090	499547.9962	1612814.3963	S	1	Peñafrancia - Zamora	30 min	15 min	Clogged drainage	14/10/2004	JAD	ESC
4091	499534.1207	1613049.7369	0	0	1130 Peñafrancia St.				14/10/2004	JAD	ESC
4092	499852.1381	1613027.5907	0	0	Bagong Barangay, Pandacan, Manila				14/10/2004	JAD	ESC
4093	499857.9045	1613073.1952	10	3	2nd Gate - Zamora	15 min	< 1	Clogged drainage	14/10/2004	JAD	ESC
4094	499804.0837	1613207.2709	0	0	Bldg. 14, Bagong Barangay, Zamora St.				14/10/2004	JAD	ESC
4095	500048.3260	1613184.4128	20	2	Zamora - Pres. Quirino	30 min	30 min	Clogged drainage	14/10/2004	JAD	ESC
4096A	499754.2496	1612515.1482	0	0	Pres. Quirino - Perdigon				14/10/2004	JAD	ESC
4096B	499759.9279	1612563.4684	50	3	Columbia St.			Low-lying	14/10/2004	JAD	ESC
4097	499774.6589	1612612.3232	30	2	San Antonio - Quirino Ext. (Plaza Dilao)	30 min	1	Clogged drainage	14/10/2004	JAD	ESC
4098	499405.7565	1612513.4822	S	2	Merced - Perdigon	15 min	1	Clogged drainage & back-flow due to high tide	14/10/2004	JAD	ESC
4099	499341.9846	1612359.2441	0	0	Paz - Pedro Gil				14/10/2004	JAD	ESC
4100	499306.0686	1612216.9167	0	0	1647 Santiago St.				14/10/2004	JAD	ESC
4101	499983.3424	1612358.8412	S	1	Onyx - Pedro Gil	20 min	20 min	Clogged drainage	15/10/2004	JAD	ESC
4102	499986.5231	1612162.3308	S	30 min	7th St. - Onyx	15 min	10 min	Continuous rain	15/10/2004	JAD	ESC
4103	499759.0077	1612108.6069	0	0	1471 4th St. (Fable Subd.)				15/10/2004	JAD	ESC
4104	499687.8627	1612254.5984	S	1	1444 First St.	25 min	15 min		15/10/2004	JAD	ESC
4105	499878.9179	1612252.9861	20	1	Main St. - 3rd St.	15 min	30 min	Clogged drainage	15/10/2004	JAD	ESC
4106	499810.4070	1612363.3831	30	1	Fairlie - Pedro Gil (near Barangay Office)	20 min	30 min	Continuous rain	15/10/2004	JAD	ESC
4107	500163.8461	1612208.7170	20	1	Road 6 - Road 9	10 min	15 min	Continuous rain	15/10/2004	JAD	ESC
4108	500340.2548	1612347.8587	S	1	Road 12 - Road 13	5 min	5 min	Clogged drainage	15/10/2004	JAD	ESC
4109	500410.0653	1612217.8937	S	1	Road 16 - Elorriaga	15 min	5 min	Clogged drainage	15/10/2004	JAD	ESC



# SUMMARY OF INUNDATION SURVEY RESULTS (12/21)

ID No.	Location		Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
4110	500358.0630	1612055.8176	0	0	Road 15 - Road 4	20 min	1	Back-flow	15/10/2004	JAD	ESC
4111	500457.9415	1612027.6796	10	2	Nickel - A. Francisco	15 min	30 min		15/10/2004	JAD	ESC
4112	500798.8967	1612096.9783	40	1	Pasig Line - San Andres Ext.	5 min	3	Clogged drainage	15/10/2004	JAD	ESC
4113	500983.4761	1612043.8310	40	5	Lwayway - Matuhay				15/10/2004	JAD	ESC
4114	500255.7729	1612524.7609	0	0	1811 Int. 17, Barrio Sta. Maria				15/10/2004	JAD	ESC
4115	500288.1365	1613744.0096	0	0	Nardiso - Boros	15 min	5 min		16/10/2004	JAD	ESC
4116	500371.5495	1613875.3758	S	30 min	2148 Jesus St.				16/10/2004	JAD	ESC
4117	500231.5731	1613908.8595	0	0	San Luis (near PNB)				16/10/2004	JAD	ESC
4118	500165.7702	1613639.1945	0	0	San Luis (near Lozada)				16/10/2004	JAD	ESC
4119	500185.0445	1613555.1689	S	1	Librada - Hijum	5 min	25 min		16/10/2004	JAD	ESC
4120	500221.3267	1613119.2262	0	0	1403 Librada St.	15 min	30 min	Continuous rain	16/10/2004	JAD	ESC
4121	500228.7050	1613024.8711	30	1	1449 Labores Ext.	30 min	1	Clogged drainage	16/10/2004	JAD	ESC
4122	500209.3623	1613260.5747	0	0	1340 Labores Ext.	30 min	2	Clogged drainage	16/10/2004	JAD	ESC
4123	500203.6639	1613478.8703	30	2	Kaingin St.				16/10/2004	JAD	ESC
4124	500070.8844	1613405.2258	S	3	Zamorá - Quirino				16/10/2004	JAD	ESC
4125	500856.2745	1613908.1460	0	0	Jesus St.				16/10/2004	JAD	ESC
4126	500480.2418	1613728.4027	0	0	2439 Beata St.				17/10/2004	JAD	ESC
4127	500695.9184	1613728.4027	0	0	2055 Palumpung St.				17/10/2004	JAD	ESC
4128	500544.5293	1613626.7490	0	0	Selva St.				17/10/2004	JAD	ESC
4129	500417.0014	1613503.5451	0	0	Florida - Cisine				17/10/2004	JAD	ESC
4130	500656.5993	1613434.6323	0	0	2430 Laura St.				17/10/2004	JAD	ESC
4131	500445.9661	1613219.4746	0	0	1924 Carreon St.				17/10/2004	JAD	ESC
4132	500536.5590	1613001.1185	0	0	Carreon - Arvaza				17/10/2004	JAD	ESC
4133	499312.7577	1612650.2954	0	0	San Gregorio - Paz				17/10/2004	JAD	ESC
4134	499379.1699	1612812.7279	0	0	Merced - Zulueta				17/10/2004	JAD	ESC
4135	499137.2901	1612865.9509	20	2	Cristobal - Ulliang Kawayan	30 min	1	Clogged drainage	17/10/2004	JAD	ESC
4136	499287.8200	1613018.8195	0	0	1207 Paz St.				17/10/2004	JAD	ESC
4137	499190.0239	1613100.8419	20	12	Quirino - Cristobal	30 min		Clogged drainage	18/10/2004	JAD	ESC
4138	499777.1682	1613798.6033	20	4	Paz - Mendiola Ext.	30 min	3	Clogged drainage	18/10/2004	JAD	ESC
4139	499967.8203	1613610.9950	0	0	Mendiola Ext. (near store)				18/10/2004	JAD	ESC
4140	499698.9220	1613490.9949	0	0	Isidro - Guazon				18/10/2004	JAD	ESC
4141	499606.0075	1613411.8252	0	0	Guazon St.				18/10/2004	JAD	ESC
4142	499754.3559	1613393.8481	0	0	Guazon St.				18/10/2004	JAD	ESC
4143	499505.1711	1613475.7573	0	0	L. Guanzon - Paz Mendoza				18/10/2004	JAD	ESC
4144	499648.4564	1613656.9790	0	0	Acropolis Drive - Paz Mendoza				18/10/2004	JAD	ESC
4145	500042.6603	1613762.4181	0	0	2259 Pres. Quirino Ave.				18/10/2004	JAD	ESC
4146	500014.4016	1613946.7825	S	1	Pres. Quirino Ave.	20 min	20 min		18/10/2004	JAD	ESC
4147	497788.6787	1617902.8702	10	2	Samal - Dinalupihan	30 min	30 min	Clogged drainage	19/10/2004	JAD	ESC
4148	497928.0328	1618019.5036	50	1	Samal - Aurora Blvd.	30 min	30 min		19/10/2004	JAD	ESC
4149	498015.8570	1617920.0855	60	1	Aurora Blvd. - Rizal Ave. Ext.	30 min	30 min		19/10/2004	JAD	ESC
4150	498146.2176	1617608.7024	40	2	Pampanga - Aurora	30 min	30 min	Continuous rain	19/10/2004	JAD	ESC
4151	498028.3682	1617808.7024	50	2	Rizal Ave. - Pampanga	15 min	30 min	Clogged drainage	19/10/2004	JAD	ESC
4152	497861.6826	1617788.0116	30	2	Lico - Pampanga	15 min	30 min	Clogged drainage	19/10/2004	JAD	ESC
4153A	497919.2618	1617638.7229	10	2	Lico St.	10 min	30 min	Clogged drainage	19/10/2004	JAD	ESC
4153B	497834.5076	1617590.9596	50	2	Lico St. (Looban)	10 min	30 min	Clogged drainage	19/10/2004	JAD	ESC
4154	498017.2157	1617394.7474	30	3	Rizal Ave. - Lico - Cavite	30 min	2	Clogged drainage	19/10/2004	JAD	ESC
4155	498030.2237	1617670.4767	20	2	Rizal Ave. (near Bulacan St.)	15 min	30 min	Clogged drainage	19/10/2004	JAD	ESC
4156	498134.8605	1617530.4798	20	2	Oroquieta - Tecson	30 min	1	Clogged drainage	19/10/2004	JAD	ESC
4157	498181.6868	1617393.6812	30	1	Cavite - Hizon	30 min	30 min		19/10/2004	JAD	ESC
4158	498176.7931	1617229.5498	50	2	Hizon - Blumentritt	30 min	30 min		19/10/2004	JAD	ESC
4159	498015.4830	1617243.3410	10	2	Blumentritt - Rizal Ave.	15 min	15 min		19/10/2004	JAD	ESC
4160	497814.3958	1617265.5911	30	24	S. Reyes - Antipolo	30 min	12	Clogged drainage due to garbage	19/10/2004	JAD	ESC

# SUMMARY OF INUNDATION SURVEY RESULTS (13/21)

ID No.	Location		Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
	X	Y									
4161	497817.1733	1617402.6074	50	3	S. Reyes - Cavite	15 min	2	Clogged drainage	19/10/2004	JAD	ESC
4162	497676.7684	1617405.4410	60	72	Cavite (near Tirdalo)	15 min	36	Clogged drainage	19/10/2004	JAD	ESC
4163	498191.4940	1617128.4515	20	8	Laguna St. (near Huentas)	30 min	7	Clogged drainage	20/10/2004	JAD	ESC
4164	498010.2005	1617128.5879	50	14	Rizal Ave. - Laguna	30 min	12	Clogged drainage	20/10/2004	JAD	ESC
4165	497438.9047	1617254.1293	50	1	Abad Santos - Old Antipolo	15 min	30 min	Continuous rain	20/10/2004	JAD	ESC
4166	497640.0064	1617241.5985	0	0	1288 Old Antipolo				20/10/2004	JAD	ESC
4167	497472.6954	1617026.1182	50	24	Abad Santos - Batangas	30 min	18		20/10/2004	JAD	ESC
4168	497625.0302	1617006.8997	0	0	1228 Batangas St.				20/10/2004	JAD	ESC
4169	497807.5857	1616996.4834	10	30 min	S. Reyes - Batangas	5 min	15 min		20/10/2004	JAD	ESC
4170	497802.0781	1616960.3996	30	24	S. Reyes - Tayabas	20 min	12	Clogged drainage	20/10/2004	JAD	ESC
4171	497585.3024	1616866.8905	20	1	Yakal - Tayabas		30 min	Clogged drainage	20/10/2004	JAD	ESC
4172	497451.2311	1616878.7817	50	12	Abad Santos - Tayabas	30 min	1	Overbanking of nearby creek	20/10/2004	JAD	ESC
4173A	497310.7709	1616896.9566	0	0	Tayabas St. (near bakery)				20/10/2004	JAD	ESC
4173B	497291.4787	1616807.1134	20	1	Katamanan St.		30 min		20/10/2004	JAD	ESC
4174A	497258.6434	1616660.1761	30	24	Katamanan St.	30 min	12		20/10/2004	JAD	ESC
4174B	497241.6259	1616590.1089	50	24	Tayuman - Katamanan	30 min	12		20/10/2004	JAD	ESC
4175	497409.8772	1616564.5405	50	6	Tayuman - Abad Santos	30 min	5		20/10/2004	JAD	ESC
4176	497588.5076	1616545.1792	40	24	1302 Tayuman	30 min	24	Clogged drainage	20/10/2004	JAD	ESC
4177	497795.5574	1616557.7998	50	12	Tayuman - S. Reyes	30 min	12	Clogged drainage	20/10/2004	JAD	ESC
4178	497999.3999	1616574.4809	20	2	Tayuman - Rizal Ave.	30 min	1	Clogged drainage	20/10/2004	JAD	ESC
4179	498158.3006	1616591.2487	20	24	Hizon - Tayuman	30 min	12	Clogged drainage	20/10/2004	JAD	ESC
4180	498192.1195	1616854.0989	10	1	Huentas - Tayabas	30 min	30 min		20/10/2004	JAD	ESC
4181A	497919.8337	1616863.2555	0	0	Rizal Ave. (near Cebuana Lhuillier)				20/10/2004	JAD	ESC
4181B	498051.5942	1616857.8820	20	1	Tayabas - Natividad	30 min	30 min		20/10/2004	JAD	ESC
4182	498082.7994	1616295.1112	20	2	San Lazaro - Oroqueta	20 min	1 hr 30 min	Clogged drainage	20/10/2004	JAD	ESC
4183A	498189.3942	1616288.2993	50	3	San Lazaro (near P. Guevarra)	30 min	2		20/10/2004	JAD	ESC
4183B	498180.0798	1616195.6892	30	3	P. Guevarra (near San Lazaro)	30 min	2		20/10/2004	JAD	ESC
4184A	498149.2332	1616015.3643	0	0	Alvarez (near P. Guevarra)				20/10/2004	JAD	ESC
4184B	498171.0695	1616075.5510	40	72	P. Guevarra (near Alvarez)		48		20/10/2004	JAD	ESC
4185	498094.1578	1616038.8458	0	0	Alvarez (near Oroqueta)				20/10/2004	JAD	ESC
4186	497990.8820	1616031.6449	20	1	Oroqueta - Alvarez	30 min	30 min		20/10/2004	JAD	ESC
4187	497859.6663	1616056.2434	20	1	Alvarez - T. Mapua	30 min	30 min	Clogged drainage	20/10/2004	JAD	ESC
4188	497676.4367	1617986.6221	30	2	Jose Abad - Dinalupihan	30 min	1 hr 30 min	Clogged drainage	21/10/2004	JAD	ESC
4189A	497516.3249	1617959.6026	50	2	Limay - Corregidor	15 min	1		21/10/2004	JAD	ESC
4189B	497488.7603	1617873.7252	80	3	Limay St.			Low-lying	21/10/2004	JAD	ESC
4190	497573.5507	1618106.0977	70	24	Morong - Limay	30 min	12	Clogged drainage	21/10/2004	JAD	ESC
4191	497401.3944	1617998.2107	30	1	Pilar - Corregidor	30 min	30 min	Clogged drainage	21/10/2004	JAD	ESC
4192	497410.1553	1617827.9228	40	2	Molave - Bugallon	30 min	30 min	Clogged drainage	21/10/2004	JAD	ESC
4193	497290.0378	1617838.4214	50	3	Calocan - 19 De Mayo	30 min	3	Clogged drainage	21/10/2004	JAD	ESC
4194	497265.2377	1617675.7786	70	12	Solis - Calocan	30 min	10	Clogged drainage	21/10/2004	JAD	ESC
4195	497442.9923	1617680.6550	80	12	19 De Mayo - Solis	1	11	Clogged drainage	21/10/2004	JAD	ESC
4196	497562.0909	1617698.0631	30	2	Abad Santos - Solis	15 min	2	Clogged drainage	21/10/2004	JAD	ESC
4197	497388.9538	1617318.8979	S	< 1	New Antipolo				21/10/2004	JAD	ESC
4198	497279.0659	1617411.7605	S	< 1	1022 New Antipolo				21/10/2004	JAD	ESC
4199	497293.6660	1617196.0004	50	3	Molave - Laguna Ext.	30 min	2	Clogged drainage, garbage	21/10/2004	JAD	ESC
4200	497185.1533	1617097.5776	0	0	Batangas Ext.				21/10/2004	JAD	ESC
4201	497322.9263	1617052.0154	0	0	Roxas - Batangas				21/10/2004	JAD	ESC
4202	497302.6027	1616101.3731	S	30 min	Bambang Ext. - Jose Abad Santos	10 min	15 min		21/10/2004	JAD	ESC
4203	497158.0128	1616140.6027	S	1	A. Rivera - Bambang Ext.	15 min	20 min		21/10/2004	JAD	ESC
4204	497184.4969	1616281.6308	0	0	Rivera - Quirica				21/10/2004	JAD	ESC
4205	497337.8556	1616244.6029	10	1	Quirica - Abad Santos	30 min	30 min		21/10/2004	JAD	ESC
4206	497581.7863	1616000.8018	0	0	Bambang - F. De Leon				21/10/2004	JAD	ESC

# SUMMARY OF INUNDATION SURVEY RESULTS (14/21)

ID No.	Location		Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
4207	497673.7877	1616179.3355	30	12	Quiricada - Ipil	30 min	6	Clogged drainage	21/10/2004	JAD	ESC
4208	497984.6330	1616163.6104	30	1	Rizal Ave. (near Quiricada)	15 min	30 min		21/10/2004	JAD	ESC
4209	497550.1048	1617561.3240	40	4	T. Bugallon - Abad Santos	1	1	Clogged drainage	21/10/2004	JAD	ESC
4210	501041.6275	1613904.5296	0	0	Jesus Ext. - Noble				23/10/2004	JAD	ESC
4211	501234.8989	1613912.6847	S	30 min	Road 5 - Certeza	10 min	15 min	Clogged drainage	23/10/2004	JAD	ESC
4212	501405.1922	1613778.7877	0	0	Certeza - De La Paz				23/10/2004	JAD	ESC
4213	501196.8274	1613693.2355	0	0	1417 Int. 3 Beata				23/10/2004	JAD	ESC
4214	501150.8617	1613785.3163	0	0	2834 Road 2				23/10/2004	JAD	ESC
4215	501025.1098	1613831.7203	0	0	2526 Stp. Nifo				23/10/2004	JAD	ESC
4216	500984.2305	1613681.8989	0	0	2279 Beata				23/10/2004	JAD	ESC
4217	498811.0000	1610829.1370	S	30 min	Adriatico (near Manila Zoo)	5 min	20 min	Backflow	24/10/2004	JAD	ESC
4218A	498868.0030	1610698.8180	0	0	Pres. Quirino				24/10/2004	JAD	ESC
4218B	498766.3670	1611066.0750	20	1	Leveriza				24/10/2004	JAD	ESC
4219	498953.1000	1610573.3950	0	0	2310 Adriatico				24/10/2004	JAD	ESC
4220	498404.2535	1610907.0522	0	0	Mabini - Aguada				24/10/2004	JAD	ESC
4221	498185.4821	1611270.2836	0	0	San Andres - Mabini				24/10/2004	JAD	ESC
4222	498281.5475	1611562.0241	S	30 min	Adriatico - Nakpil	5 min	10 min		24/10/2004	JAD	ESC
4223	498530.9188	1610924.7393	0	0	Madre Ignacia - Quirino				24/10/2004	JAD	ESC
4224	498423.0958	1611114.9834	0	0	Madre Ignacia				24/10/2004	JAD	ESC
4225	498343.3604	1611270.1052	0	0	Madre Ignacia - San Andres				24/10/2004	JAD	ESC
4226	498635.2799	1611364.2343	20	30 min	Leveriza - San Andres	30 min	30 min	Heavy rains	24/10/2004	JAD	ESC
4227	498435.5501	1611276.1140	0	0	Adriatico - San Andres				24/10/2004	JAD	ESC
4228	498507.2697	1611495.1976	0	0	Crosca - Renedios				24/10/2004	JAD	ESC
4229	498506.4375	1611681.1050	0	0	Guerrero - Nakpil				24/10/2004	JAD	ESC
4230	498366.1221	1611747.6360	S	30 min	Matvar - Crosca	10 min	20 min		24/10/2004	JAD	ESC
4231	498121.5965	1611621.0905	0	0	Mabini (near Matvar)				24/10/2004	JAD	ESC
5001	500024.7472	1616713.5692	0	0	Welcome Rotonda				06/10/2004	RBA	ESC
5002	500161.3364	1616511.5762	0	0	N. Ramirez - Data				06/10/2004	RBA	ESC
5003	499962.1450	1616841.3456	0	0	Dr. Alejos - Florentino				06/10/2004	RBA	ESC
5004	499899.1335	1616999.9887	0	0	Mayon Ave. - Margal				06/10/2004	RBA	ESC
5005	499819.0270	1617147.3311	60	4	Mayon - Dapitan	1	2	Poor drainage system, clogged	06/10/2004	RBA	ESC
5006	499694.0383	1617247.2482	0	0	Laong Laan - Isarog				07/10/2004	RBA	ESC
5007	499680.6445	1617450.5536	0	0	Mayon - Maria Clara	1	1		07/10/2004	RBA	ESC
5008	499781.4610	1616886.4595	50	2	Marveles - Margal			Poor drainage system, clogged	08/10/2004	RBA	ESC
5009	499548.7793	1617331.1144	0	0	Iriga - Maria Clara				07/10/2004	RBA	ESC
5010	499437.8950	1617446.5378	0	0	Iriga - Simoun				07/10/2004	RBA	ESC
5011	499326.4384	1617562.0411	0	0	Iriga - Calamba				07/10/2004	RBA	ESC
5012	499330.9512	1617342.2206	0	0	Simoun - Marveles				07/10/2004	RBA	ESC
5013	499186.9286	1617431.3400	50	2	Baco - Calamba	1	1	Poor drainage system, clogged	07/10/2004	RBA	ESC
5014	499046.6605	1617554.2583	0	0	Baco - Don Manuel (Makiling)				07/10/2004	RBA	ESC
5015	498964.7461	1617622.0842	0	0	Amaranto - Baco				07/10/2004	RBA	ESC
5016	499756.6177	1616423.0375	40	2	Espana - Blumentritt	1	1	Poor drainage system, clogged	07/10/2004	RBA	ESC
5017	499860.2638	1616509.3397	0	0	Josefina - Espana	3	2	Poor drainage system	07/10/2004	RBA	ESC
5018	499613.3996	1616275.7156	50	7	Metlica - Espana				07/10/2004	RBA	ESC
5019	499531.1928	1616197.4880	80	8	Quintos - Espana	2	3	Overbanking of nearby creek, poor drainage system	07/10/2004	RBA	ESC
5020	499439.9487	161616.7237	80	8	Algebras - Espana	3	4	Poor drainage system	07/10/2004	RBA	ESC
5021	499322.7337	1616011.7020	80	8	Vicente Cruz - Espana	3	3	Poor drainage system	07/10/2004	RBA	ESC
5022	499656.2473	1617213.5470	0	0	Iriga - N. Roxas				08/10/2004	RBA	ESC
5023	499653.8485	1617002.0872	S	4	Marveles - Dapitan	2	2	Overbanking of nearby creek, poor drainage system	08/10/2004	RBA	ESC
5024	499544.4567	1617113.8473	0	0	Marveles - N. Roxas				08/10/2004	RBA	ESC
5025	499439.3024	1617231.4507	0	0	Marveles - Maria Clara				09/10/2004	RBA	ESC

# SUMMARY OF INUNDATION SURVEY RESULTS (15/21)

ID No.	Location			Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
	X	Y										
5026	499314.3548	161711.8606		80	8	Maria Clara - Blumentritt	1	4	Overbanking of nearby creek, poor drainage system	08/10/2004	RBA	ESC
5027	499188.1255	161721.2763		80	8	Simoun - Blumentritt	1	5	Overbanking of nearby creek, poor drainage system	08/10/2004	RBA	ESC
5028	499442.8288	161701.4477		S	5	Blumentritt - Laong Lan	3	2	Overbanking of nearby creek, poor drainage system	08/10/2004	RBA	ESC
5029	499561.0867	161690.7554		0	0	Blumentritt - Dapitan				08/10/2004	RBA	ESC
5030	499668.9401	161675.7626		60	8	Blumentritt - Margal			Overbanking of nearby creek, poor drainage system	08/10/2004	RBA	ESC
5031	499692.4357	161695.6419		S	2	P. Florentino - Blumentritt	1	1		08/10/2004	RBA	ESC
5032	498680.0873	161733.7445		80	10	Dinasalang - Maceda	4	5	Overbanking of nearby creek, poor drainage system	09/10/2004	RBA	ESC
5033	498736.0530	161735.8024		80	9	Instrucion - Retiro		6	Overbanking of nearby creek, poor drainage system	09/10/2004	RBA	ESC
5034	498834.4093	161749.5584		40	6	Blumentritt Ext - Anoranto	3	2	Overbanking of nearby creek, poor drainage system	09/10/2004	RBA	ESC
5035	498933.8041	161742.2616		10	10	Blumentritt - Don Manuel (Makiling)		1	Overbanking of nearby creek, poor drainage system	09/10/2004	RBA	ESC
5036	499059.8909	161731.1300		90	8	Blumentritt - Calamba	2	6	Overbanking of nearby creek, poor drainage system	09/10/2004	RBA	ESC
5037	498982.9902	161724.3878		80	8	Ibarra - Calamba	2	6	Overbanking of nearby creek, poor drainage system	09/10/2004	RBA	ESC
5038	498861.7931	161735.9903		60	8	Ibarra - Makiling	1	6	Overbanking of nearby creek, poor drainage system	09/10/2004	RBA	ESC
5039	499092.0529	161712.8938		10	6	Simoun - Ibarra	1	1	Low-lying area	09/10/2004	RBA	ESC
5040	499202.7539	161700.1175		10	6	Maria Clara - Ibarra	3	1		11/10/2004	RBA	ESC
5041	499311.6365	161689.3694		S	2	Laong Lan - Ibarra		30 min		11/10/2004	RBA	ESC
5042	499390.8335	161675.3964		40	6	Dapitan - Sisa	1	2	Overbanking of nearby creek, poor drainage system	11/10/2004	RBA	ESC
5043	499305.0355	161668.4807		40	6	Maceda - Dapitan	1	1	Overbanking of nearby creek, poor drainage system	11/10/2004	RBA	ESC
5044	499414.7901	161651.4392		50	4	Margal - Maceda	1	3	Overbanking of nearby creek, poor drainage system	11/10/2004	RBA	ESC
5045	499533.2848	161656.0534		S	4	2060 P. Florentino	3	1		11/10/2004	RBA	ESC
5046	499640.6327	161654.3948		0	0	Ibarra - P. Florentino				11/10/2004	RBA	ESC
5047	499494.9535	161640.3561		20	6	P. Florentino - Metica	2	1	Overbanking of nearby creek, poor drainage system	11/10/2004	RBA	ESC
5048	499410.5355	161632.2466		10	8	Quintos - P. Florentino		5	Poor drainage system	11/10/2004	RBA	ESC
5049	499323.6963	161629.8762		20	8	Algeciras - P. Florentino		2	Overbanking of nearby creek	11/10/2004	RBA	ESC
5050	499212.8866	161636.6663		10	4	Algeciras - P. Margal	1	3	Overbanking of nearby creek, poor drainage system	11/10/2004	RBA	ESC
5051	499302.9600	161646.2598		20	8	P. Margal - Quintos	1	2	Overbanking of nearby creek, poor drainage system	11/10/2004	RBA	ESC
5052	499098.1954	161625.4752		10	4	V. Cruz - P. Margal		1	Clogged drainage	11/10/2004	RBA	ESC
5053	499205.7603	161613.4484		10	4	V. Cruz - P. Florentino	1	1		11/10/2004	RBA	ESC
5054	498682.6761	161715.4723		60	8	Dinasalang - Makiling	1	12	Poor drainage system, clogged	12/10/2004	RBA	ESC
5055	498768.6710	161724.3349		10	8	Maceda - Makiling	1	2	Poor drainage system, clogged	12/10/2004	RBA	ESC
5056	498872.2397	161735.4130		50	8	Maceda - Calamba	1	6	Poor drainage system, clogged	12/10/2004	RBA	ESC
5057	498980.5485	161701.5861		60	7	Maceda - Simoun	1	5	Poor drainage system, low-lying	12/10/2004	RBA	ESC
5058	499086.2074	161699.8777		10	8	Maceda - Maria Clara		5	Poor drainage system, clogged	12/10/2004	RBA	ESC
5059	499194.3784	161678.0813		40	8	Laong Lan - Maceda	1	4	Poor drainage system, clogged	12/10/2004	RBA	ESC
5060	499109.6117	161670.4977		20	8	Kundiman - Laong Lan		3	Poor drainage system, clogged	12/10/2004	RBA	ESC
5061	499190.6767	161650.9284		80	8	Dapitan - Quintos	2	5	Poor drainage system, clogged	12/10/2004	RBA	ESC
5062	499103.0710	161647.8249		80	8	Algeciras - Dapitan	2	4	Poor drainage system, clogged	12/10/2004	RBA	ESC
5063	498995.7232	161660.3809		30	6	Laong Lan - Algeciras			Poor drainage system, clogged	12/10/2004	RBA	ESC
5064	498918.7163	161674.8014		70	8	Antipolo - Maria Clara	1	6	Poor drainage system, clogged	12/10/2004	RBA	ESC
5065	499002.4203	161681.3047		S	7	Kundiman - Maria Clara	1	4	Poor drainage system, clogged	12/10/2004	RBA	ESC
5066	498894.9615	161693.3345		S	7	Simoun - Kundiman	1	3	Poor drainage system, clogged	12/10/2004	RBA	ESC
5067	498813.6989	161709.2991		30	8	Craig - Calamba	30 min	6	Poor drainage system	12/10/2004	RBA	ESC
5068	498702.7237	161697.5725		70	8	Antipolo - Calamba	1	3	Poor drainage system	12/10/2004	RBA	ESC
5069	498805.3100	161685.7994		S	8	Antipolo - Simoun	1	2	Poor drainage system, clogged	12/10/2004	RBA	ESC
5070	498770.1483	161680.52153		40	8	V. Cruz - Maria Clara	1	6	Poor drainage system, clogged	13/10/2004	RBA	ESC
5071	498668.1146	1616730.3474		60	8	V. Cruz - Dimasalang	1	4	Poor drainage system, clogged	13/10/2004	RBA	ESC
5072	498878.5043	1616489.4209		40	8	V. Cruz - Laong Lan		4	Poor drainage system, clogged	13/10/2004	RBA	ESC
5073	498988.3199	1616372.2965		70	8	Dapitan - V. Cruz		4	Poor drainage system, clogged	13/10/2004	RBA	ESC
5074	498871.2936	1616265.0707		90	8	Dapitan - Don Quijote		2	Poor drainage system, clogged	13/10/2004	RBA	ESC
5075	498979.1420	1616146.1132		80	8	P. Margal - Don Quijote	2	2	Poor drainage system, clogged	13/10/2004	RBA	ESC
5076	499085.5897	1616024.3568		60	7	Don Quijote - P. Florentino		3	Poor drainage system, clogged	13/10/2004	RBA	ESC
5077	498861.3750	1616042.3396		10	8	P. Margal - A.H. Lacson	2	3	Poor drainage system	13/10/2004	RBA	ESC

# SUMMARY OF INUNDATION SURVEY RESULTS (16/21)

ID No.	Location		Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
5078	498758.7727	1616155.8884	S	4	A.H. Lacson - Dapitan	1	30 min		13/10/2004	RBA	ESC
5079	498658.1393	1616293.3800	10	6	Laong Laan - Dimasalang	2	2		13/10/2004	RBA	ESC
5080	498762.5193	1616379.6938	10	4	Laong Laan - Don Quijote		1		13/10/2004	RBA	ESC
5081	498657.4092	1616920.8471	0	0	Dimasalang				13/10/2004	RBA	ESC
5082	498659.6708	1616500.7992	40	8	Don Quijote - Dimasalang	1	5	Poor drainage system, clogged	13/10/2004	RBA	ESC
5083	499555.8709	1615993.0909	10	4	S. Loyola - Algeciras	1	1		14/10/2004	RBA	ESC
5084	499646.0893	1616076.0250	50	8	Quintos - S. Loyola		2	Poor drainage system, clogged	14/10/2004	RBA	ESC
5085	499757.5020	1616185.1887	S	2	S. Loyola - Maceda	30 min	20 min		14/10/2004	RBA	ESC
5086	499812.0979	1616247.4046	0	0	S. Loyola - Instruccion				14/10/2004	RBA	ESC
5087	499843.6876	1616039.0632	S	1	Matinyas - Lealtad				14/10/2004	RBA	ESC
5088	499956.9892	1616224.6787	0	0	Matinyas Circle				14/10/2004	RBA	ESC
5089	499939.3689	1616333.5045	S	1	Sto. Tomas - Blumentritt		20 min	Poor drainage system	14/10/2004	RBA	ESC
5090	500173.0418	1616239.3849	0	0	Matinyas - Blumentritt				14/10/2004	RBA	ESC
5091	500253.4454	1616350.6748	0	0	1055 Matinyas				14/10/2004	RBA	ESC
5092	500001.1025	1616433.7927	0	0	Josefina (near España)				14/10/2004	RBA	ESC
5093	498807.9788	1617743.8102	0	0	229 Mariveles				14/10/2004	RBA	ESC
5094	498685.7868	1617586.5427	30	6	Blumentritt - Calavite	1	20 min	Overbanking of nearby creek, poor drainage system	14/10/2004	RBA	ESC
5095	498313.2326	1617219.3240	30	8	P. Guevarra		1		14/10/2004	RBA	ESC
5096	498325.7275	1617522.2312	S	2	Tecson - P. Guevarra				14/10/2004	RBA	ESC
5097	498332.1618	1617646.5876	S	8	Aurora Blvd. - P. Guevarra				14/10/2004	RBA	ESC
5098	498319.2381	1617391.3975	S	4	Lico - Cavite			Poor drainage system	14/10/2004	RBA	ESC
5099	498495.0069	1617500.8725	0	0	Isagani - Blumentritt				14/10/2004	RBA	ESC
5100	498497.7309	1617379.8126	30	4	Isagani - Cavite	2	2	Poor drainage system	14/10/2004	RBA	ESC
5101	498493.9135	1617219.5147	60	4	Isagani - Tiago	1	3	Overbanking of nearby creek, poor drainage system	14/10/2004	RBA	ESC
5102	498581.2657	1617106.8159	60	6	Karapatan - Antipolo	1	5	Poor drainage system	14/10/2004	RBA	ESC
5103	498596.6451	1616925.2825	S	2	Balaguer - Elias	30 min	1		15/10/2004	RBA	ESC
5104	498572.5013	1616616.4084	0	0	Felina - Aragon				15/10/2004	RBA	ESC
5105	498319.6511	1616598.3305	0	0	A.H. Lacson - Consuelo				15/10/2004	RBA	ESC
5106	498418.2659	1616485.7223	0	0	A.H. Lacson - Andalucia		1		15/10/2004	RBA	ESC
5107	498523.1460	1616377.2281	S	2	Maria Clara - A.H. Lacson	1	1		15/10/2004	RBA	ESC
5108	498400.8685	1616267.1094	40	6	Maria Clara - Gen. Concepcion	1	1		15/10/2004	RBA	ESC
5109	498514.1334	1616141.9147	20	8	Laong Laan - Gen Concepcion		4		15/10/2004	RBA	ESC
5110	498617.7799	1616024.3568	40	6	Gen. Concepcion - Dapitan	1	1		15/10/2004	RBA	ESC
5111	498529.8713	1615948.0098	40	6	Navarra - Dapitan	1	1		15/10/2004	RBA	ESC
5112	499801.1639	1616695.6806	S	3	Macarraig - P. Florentino		30 min		15/10/2004	RBA	ESC
5113	497752.7662	1618208.4976	40	8	Abad Santos - Rizal Ave.	3	2	Overbanking of nearby creek, poor drainage, clogged	18/10/2004	RBA	ESC
5114	497852.4441	1618512.8349	50	6	Rizal Ave. - Teodoro	3	3	Overbanking of nearby creek, poor drainage	18/10/2004	RBA	ESC
5115	497631.4654	1618290.0049	30	6	Limay - Hermosa	30 min	1	Overbanking of nearby creek, poor drainage	18/10/2004	RBA	ESC
5116	497515.9396	1618325.4493	10	4	Abucay - Hermosa	3	1	Overbanking of nearby creek	18/10/2004	RBA	ESC
5117	497529.3406	1618473.9615	50	8	3158 Abucay St.	1	1 hr 30 min	Overbanking of nearby creek, poor drainage, clogged	18/10/2004	RBA	ESC
5118	497582.2702	1618383.7643	40	8	Molave - Hermosa	1	3	Overbanking of nearby creek	18/10/2004	RBA	ESC
5119	497688.5129	1618639.5475	0	0	Limay - Viscaya				18/10/2004	RBA	ESC
5120	497740.7194	1618448.9719	80	8	Teodoro - Obiero	2	6	Overbanking of nearby creek, small drainage	18/10/2004	RBA	ESC
5121	497431.4021	1618173.2964	10	4	Pilar - Morong	30 min	2	Poor drainage system, clogged	18/10/2004	RBA	ESC
5122	497304.8689	1618318.9548	10	4	Hermosa - Daang Bakal	1	1	Poor drainage system, clogged	18/10/2004	RBA	ESC
5123	497130.6003	1618328.3067	10	4	Juan Luna - Hermosa	1	30 min	Overbanking of nearby creek, poor drainage, clogged	18/10/2004	RBA	ESC
5124	496992.9146	1618355.3738	40	6	Hermosa - Benita	1	2	Overbanking of nearby creek	18/10/2004	RBA	ESC
5125	497037.1946	1618543.3957	30	6	Carmen - Benita	3	1	Overbanking of nearby creek	18/10/2004	RBA	ESC
5126	497181.2964	1618560.1639	0	0	Juan Luna - Avellana				18/10/2004	RBA	ESC
5127	497304.7681	1618576.4457	0	0	Dagupan Ext. - Maliklik				18/10/2004	RBA	ESC
5128	497212.8503	1618787.5249	0	0	Mabini (near Damayan)				18/10/2004	RBA	ESC
5129	497221.4979	1618903.6630	50	8	J.P. Rizal - Mabini	1	6	Overbanking of nearby creek, poor drainage	18/10/2004	RBA	ESC

# SUMMARY OF INUNDATION SURVEY RESULTS (17/21)

ID No.	Location		Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
5130	496977.1457	161824.3849	80	8	J.P. Rizal - San Mateo	3	5	Poor drainage system, clogged	18/10/2004	RBA	ESC
5131	497047.5950	161915.9543	10	6	Lerna - Dimasalang	4	1		18/10/2004	RBA	ESC
5132	497230.9833	161919.0564	0	0	Mabini - Dimasalang				18/10/2004	RBA	ESC
5133	497394.9535	161909.5452	80	10	L. Lupa - Daang Bakal	2	4	Poor drainage system, clogged	18/10/2004	RBA	ESC
5134	497376.9182	161884.0560	60	9	L. Lupa, Calocan City	1	1	Overbanking of nearby creek	19/10/2004	RBA	ESC
5135	496719.8232	161843.1792	0	0	Hermosa Ext. - Adriano				19/10/2004	RBA	ESC
5136	496729.6372	161815.1321	0	0	518 Benita Ext.				19/10/2004	RBA	ESC
5137	496753.6447	161794.3040	40	4	Earnshaw - Pampanga	3	1	Overbanking of nearby creek	19/10/2004	RBA	ESC
5138	496888.3613	161732.1804	0	0	Pampanga - Sunog Apog				19/10/2004	RBA	ESC
5139	497043.8705	161798.4182	0	0	Pampanga - Juan Luna				19/10/2004	RBA	ESC
5140	497063.5705	161808.2823	S	4	Juan Luna - Benita	3	1		19/10/2004	RBA	ESC
5141	496905.7870	161811.5363	0	0	Benita - Sunog Apog				19/10/2004	RBA	ESC
5142	497269.4867	161803.9872	50	8	Solis - Railway	1	6	Overbanking of nearby creek	19/10/2004	RBA	ESC
5143	497008.0402	161766.0651	0	0	Bulacan - Juan Luna				19/10/2004	RBA	ESC
5144	496945.5437	161750.9207	0	0	Juan Luna - Cavite				19/10/2004	RBA	ESC
5145	496857.4335	161714.5463	0	0	Juan Luna - Lopez				19/10/2004	RBA	ESC
5146	496909.9938	161732.0343	0	0	2333 Juan Luna (near Kagandahan)				19/10/2004	RBA	ESC
5147	496654.6141	161726.0880	10	4	Lopez Blvd. - Antipolo	3	1	Overbanking of nearby creek, poor drainage	19/10/2004	RBA	ESC
5148	496397.1789	161732.8135	10	4	Lopez Blvd. - Dalaga	2	2	Overbanking of nearby creek, poor drainage	21/10/2004	RBA	ESC
5149	496328.8147	161747.1982	60	6	Lopez Blvd. - Del Rosario				21/10/2004	RBA	ESC
5150	496261.4482	161752.1698	30	5	Lopez Blvd. - Earnshaw	1	4	Overbanking of nearby creek, poor drainage	21/10/2004	RBA	ESC
5151	496179.0571	161771.1539	S	4	Lopez Blvd. - Infanta	3	1	Overbanking of nearby creek, poor drainage	21/10/2004	RBA	ESC
5152	496088.7226	161791.3599	0	0	Lopez Blvd. - Buendia				21/10/2004	RBA	ESC
5153	496040.8198	161820.2831	0	0	Lopez Blvd. - Rodriguez				21/10/2004	RBA	ESC
5154	495842.3700	161793.7549	0	0	2138 Rodriguez				21/10/2004	RBA	ESC
5155	496821.1075	161737.2074	0	0	Lukban - Antipolo				21/10/2004	RBA	ESC
5156	496709.6219	161739.2506	0	0	Antipolo - Fernandez				21/10/2004	RBA	ESC
5157	496588.5617	161741.4915	0	0	Yangco - Antipolo				21/10/2004	RBA	ESC
5158	496615.7815	161754.9672	0	0	Cavite - Yangco				21/10/2004	RBA	ESC
5159	496739.2980	161732.9326	0	0	Cavite - Fernandez				21/10/2004	RBA	ESC
5160	496768.8619	161767.3913	0	0	Fernandez - Del Fiero				21/10/2004	RBA	ESC
5161	496644.5058	161702.7016	0	0	Del Fiero - Earnshaw				21/10/2004	RBA	ESC
5162	496580.8393	161780.9623	0	0	Del Fiero - Earnshaw				21/10/2004	RBA	ESC
5163	496494.6183	161791.57450	0	0	352 Del Fiero				21/10/2004	RBA	ESC
5164	496369.5638	161763.7898	0	0	350 Cavite				21/10/2004	RBA	ESC
5165	496439.2702	161770.9142	0	0	Cavite - Earnshaw				21/10/2004	RBA	ESC
5166	496517.1880	161768.4637	0	0	Cavite - Del Rosario				21/10/2004	RBA	ESC
5167	496000.9209	161775.6354	0	0	Gamban - Playa				21/10/2004	RBA	ESC
5168	496332.2458	161790.2810	0	0	Gamban - Younger				21/10/2004	RBA	ESC
5169	496290.9365	161800.7359	S	8	Younger - Buendia	3	1	Overbanking of nearby creek, poor drainage system	21/10/2004	RBA	ESC
5170	496449.6959	161807.9550	0	0	Buendia - Banahaw				21/10/2004	RBA	ESC
5171	496649.4691	161816.3461	0	0	255 Kawit St.				21/10/2004	RBA	ESC
5172	496559.6219	161837.6648	30	6	Kawit - Pinoy	1	30 min	Overbanking of nearby creek	21/10/2004	RBA	ESC
5173	496336.1997	161829.7839	0	0	Pinoy - San Pedro				21/10/2004	RBA	ESC
6001	497728.4988	161197.1823	S	1	Roxas Blvd. - Sta. Monica	1	1	Clogged drainage	06/10/2004	EBS	ESC
6002	498045.5055	161130.2678	30	3	M.H. Del Pilar (in front of Alpha Grande)	1	1	Poor drainage system (only one side has drainage)	06/10/2004	EBS	ESC
6003	497928.1901	161175.2440	10	2	M.H. Del Pilar - Pedro Gil	1	1	Heavy rains	06/10/2004	EBS	ESC
6004	498185.9687	161185.2440	0	0	Guerrero - Pedro Gil				06/10/2004	EBS	ESC
6005	498435.5501	161127.1140	0	0	Adriatico - San Andres				06/10/2004	EBS	ESC
6006	498355.0118	1611407.0224	20	4	Adriatico - Remedios	1	1		06/10/2004	EBS	ESC
6007	498053.0028	161127.5766	10	2	Roxas Blvd. - Remedios	1	1	Overflowing of Manila Bay	07/10/2004	EBS	ESC

# SUMMARY OF INUNDATION SURVEY RESULTS (18/21)

ID No.	Location		Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
6008	498102.5161	161111.4216	10	2	Roxas Blvd. (in front of Grand Boulevard Hotel)	1	1	Poor drainage system	07/10/2004	EBS	ESC
6009	498256.7908	161079.8449	30	8	Quirino Ave. - Roxas Blvd.	4	4		07/10/2004	EBS	ESC
6010	498185.4821	161127.2836	0	0	Mabini - San Andres				07/10/2004	EBS	ESC
6011	498594.5517	161098.1812	0	0	Adriatico - Quirino Ave.				07/10/2004	EBS	ESC
6012	498731.6342	161146.7548	20	2	Quirino Ave. - Leveriza	1	1		07/10/2004	EBS	ESC
6013	498810.4209	161123.8451	20	2	Maginhawa St. - Quirino Ave.	1	1	Poor drainage system	07/10/2004	EBS	ESC
6014	498874.8212	161149.9375	50	4	F. Reyes - Balangit	2	2	Poor drainage system, clogged	07/10/2004	EBS	ESC
6015	498899.6516	161134.9286	30	8	F. Reyes - Quirino Ave.	4	4	Poor drainage system, small canals	07/10/2004	EBS	ESC
6016	499033.1757	161121.7956	20	6	2241 Taft Ave.	2	2		08/10/2004	EBS	ESC
6017	499118.6835	161102.6713	30	2	Taft Ave. - Castro	1	1	Dead drainage, front of Castro	08/10/2004	EBS	ESC
6018	499260.1489	161071.4.6783	20	2	Taft Ave. (in front of McDonalds)	1	1	Heavy rains	08/10/2004	EBS	ESC
6019	499341.1223	161058.1886	10	3	P. Ocampo - Taft Ave.	1	2	Overflowing of drainage	08/10/2004	EBS	ESC
6020	499334.3704	161081.4.0919	20	2	Estrada - Leon Guinto	1	1		08/10/2004	EBS	ESC
6021A	499589.5212	161069.9358	0	0	Singalong - P. Ocampo				08/10/2004	EBS	ESC
6021B	499525.1241	161090.19270	10	2	Estrada - Singalong	1	1	Poor drainage system, clogged	08/10/2004	EBS	ESC
6022	499467.2964	161108.94326	10	1	2339 Singalong	1	1	Poor drainage system	08/10/2004	EBS	ESC
6023	499518.8664	161161.78936	20	2	Singalong - Zapanta	1	1	Poor drainage, garbage	08/10/2004	EBS	ESC
6024	499417.3010	161125.0.7892	20	2	Singalong - Paris St.	1	1	Poor drainage system	08/10/2004	EBS	ESC
6025	499333.1429	161143.5.3065	10	1	Singalong - Aragon	30 min	30 min	Poor drainage system, clogged	08/10/2004	EBS	ESC
6026	499437.0157	161146.3.9546	10	4	A. Linao - San Isidro	2	2	Clogged drainage	08/10/2004	EBS	ESC
6027	499400.5814	161160.7.5669	S	1	A. Linao - San Andres	30 min	30 min	Overflowing of creek	08/10/2004	EBS	ESC
6028	499189.4620	161150.3.4450	40	2	San Andres - San Marcelino	1	1		08/10/2004	EBS	ESC
6029	499140.6300	161123.6.3717	40	2	Leon Guinto - Delgado	1	1	Poor drainage system, clogged	08/10/2004	EBS	ESC
6030	499258.7789	161098.6.6256	40	4	Leon Guinto - Maligaya	1	3	Poor drainage system	08/10/2004	EBS	ESC
6031A	499212.3945	161109.0.3673	60	4	Leon Guinto - A. Francisco	2	2		08/10/2004	EBS	ESC
6031B	499066.7160	161157.0.2094	20	1	Agoncillo - Quirino	30 min	30 min	Garbage	11/10/2004	EBS	ESC
6032	499220.6871	161176.4.6503	20	1	Singalong - Quirino	30 min	30 min	Clogged drainage	11/10/2004	EBS	ESC
6033	498967.8429	161174.6.7050	0	0	Agoncillo - Remedios				11/10/2004	EBS	ESC
6034	498925.2528	161191.0.1910	S	1	Nakpil - San Pascual	30 min	30 min	Poor drainage along San Pascual	11/10/2004	EBS	ESC
6035	498759.0565	161196.5.2835	20	4	Malvar - Leon Guinto	2	2	Clogged drainage	11/10/2004	EBS	ESC
6036	498739.7785	161180.9.1248	50	4	Nakpil - Taft	2	2		11/10/2004	EBS	ESC
6037	498737.1762	161162.0.1544	0	0	Remedios - Lim				11/10/2004	EBS	ESC
6038	498598.1406	161187.8.9810	60	1	Malvar - Hidalgo	30 min	30 min	Poor drainage system, clogged	11/10/2004	EBS	ESC
6039	498582.6847	161205.7.3740	50	2	Pedro Gil - Taft	1	1	Clogged drainage	11/10/2004	EBS	ESC
6040	497841.4091	161174.4.2551	30	2	Roxas Blvd. - Pedro Gil	1	1		11/10/2004	EBS	ESC
6041	498347.5272	161059.6.2419	40	2	Roxas Blvd. (Opposite ng Maynila)	1	1	Clogged drainage	12/10/2004	EBS	ESC
6042	498584.1385	161056.3.9398	10	1	A. Mabini St.	30 min	30 min	Creek overflows during high tide	12/10/2004	EBS	ESC
6043	498712.5917	161031.0.7526	20	2	P. Ocampo - Mabini	1	1	Poor drainage system	12/10/2004	EBS	ESC
6044	498523.9516	161016.9.0492	20	2	Roxas Blvd. (in front of Trader's Hotel)	1	1		12/10/2004	EBS	ESC
6045	498598.6683	160995.1.3473	20	2	Roxas Blvd. - Concepcion	1	1	Clogged drainage	12/10/2004	EBS	ESC
6046	498810.4176	161008.9.8224	20	2	F.B. Harrison - Maginhawa	1	1	Clogged drainage	12/10/2004	EBS	ESC
6047	498968.6835	161008.1.2847	30	2	Juklan - Estrella	1	1	Poor drainage system, low-lying	12/10/2004	EBS	ESC
6048	499020.2274	160882.0.7182	20	2	Chingkiang - Juklan	1	1	Poor drainage system	12/10/2004	EBS	ESC
6049	498902.0048	160983.5.0273	30	8	F.B. Harrison - Progreso	1	3	Clogged drainage	12/10/2004	EBS	ESC
6050	499148.4537	161006.4.3205	20	2	Gotanco - Leveriza	1	1	Poor drainage system, clogged	12/10/2004	EBS	ESC
6051	499082.5308	161029.5.8959	20	4	Balagtas - Leveriza	1	1	Clogged drainage	12/10/2004	EBS	ESC
6052	499202.2514	161041.7.5764	10	2	Donata - P. Ocampo	1	1	Low-lying area, clogged drainage	12/10/2004	EBS	ESC
6053	499281.1436	161015.8.2104	40	3	Fresno - Donata	1	1	Clogged drainage	12/10/2004	EBS	ESC
6054	499390.5871	161030.7.5023	S	2	Menlo - Taft	1	1	Clogged drainage	12/10/2004	EBS	ESC
6055	499439.3363	161015.4.5470	40	4	Incurboy - Taft	2	2	Clogged drainage	12/10/2004	EBS	ESC
6056	499610.3184	161004.8.5917	20	2	Sandejas - Leguado	1	1	Clogged drainage	13/10/2004	EBS	ESC
6057	499603.1205	161023.6.3048	40	4	Domonga - Flores	2	2	Low-lying area	13/10/2004	EBS	ESC



# SUMMARY OF INUNDATION SURVEY RESULTS (19/21)

ID No.	Location		Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
	X	Y									
6058	499484.5459	1610357.2376	30	2	San Isidro - Dominga	1	1	Low-lying area	13/10/2004	EBS	ESC
6059	499487.4854	1610552.0634	S	2	Dominga - Iskinita	1	1		13/10/2004	EBS	ESC
6060	499752.3955	1610048.4372	0	0	1818 Tramo St.				13/10/2004	EBS	ESC
6061	499770.0052	1609851.5716	40	8	Gil Puyat - Emilia	2	2	Clogged drainage, garbage	14/10/2004	EBS	ESC
6062	499888.3053	1610011.3224	20	2	Marconi - Dayap	1	1		14/10/2004	EBS	ESC
6063	499829.4833	1610259.6740	S	4	Araro - Casino	2	2	Overflow of the creek	14/10/2004	EBS	ESC
6064A	499979.5390	1610254.8327	S	2	Bautista - Calatagan	1	1	Low - Lying Areas	14/10/2004	EBS	ESC
6064B	499922.3700	1610193.4976	90	8	Bautista - Casino	4	4	Clogged drainage	14/10/2004	EBS	ESC
6065	500090.8030	1609796.2296	10	2	Buendia - Bautista	1	1	Clogged drainage	14/10/2004	EBS	ESC
6066	500131.4618	1610047.7867	10	2	Dayap - Hilario	1	1		14/10/2004	EBS	ESC
6067A	500417.4961	1610130.6630	40	2	Dayap - Filmore	1	1	Heavy rains	14/10/2004	EBS	ESC
6067B	500445.6867	1610021.4772	30	2	Filmore - Buendia	1	1	Heavy rains	14/10/2004	EBS	ESC
6068	500603.4763	1610104.2505	20	2	Emilia - South Superhighway	1	1	Clogged drainage	14/10/2004	EBS	ESC
6069	500190.9178	1610227.1876	50	48	Dian - Calatagan	2	2	Overflow of the creek	14/10/2004	EBS	ESC
6070	500374.7540	1610313.0863	20	2	Casino - Filmore	1	1	Poor drainage	14/10/2004	EBS	ESC
6071	500384.4591	1610535.8083	10	2	Enrique - South Superhighway	1	1	Clogged drainage, Heavy rains	14/10/2004	EBS	ESC
6072	500161.3340	1610479.6629	10	2	Farenheit - Enrique	1	1	Heavy rains	14/10/2004	EBS	ESC
6073	500142.1873	1610408.1376	10	2	Dian - Arellano	1	1	Clogged drainage	14/10/2004	EBS	ESC
6074	499748.8899	1610501.1826	50	3	Arellano - Zobel	1	1	Clogged drainage	14/10/2004	EBS	ESC
6075	499850.5689	1610587.6936	40	8	Zobel - Bautista	4	4	Poor drainage	14/10/2004	EBS	ESC
6076	500038.6796	1610800.8234	0	0	Zobel - Sultan				18/10/2004	EBS	ESC
6077	500134.9839	1610736.2219	0	0	Boyle - Filmore				18/10/2004	EBS	ESC
6078	500275.3081	1610738.5301	0	0	Diesel				18/10/2004	EBS	ESC
6079	500170.5130	1610826.2195	20	2	Zobel Roxas Ave. - South Superhighway	1	1	Heavy rains	18/10/2004	EBS	ESC
6080	499957.9188	1610989.1779	20	2	Pablo Ocampo - Espiritu	1	1	Heavy rains	18/10/2004	EBS	ESC
6081	499756.6132	1610787.8508	0	0	Pablo Ocampo - Bautista				18/10/2004	EBS	ESC
6082	499671.3452	1610965.0493	30	2	Estrada - Bautista	1	1		18/10/2004	EBS	ESC
6083	499874.5124	1611061.2094	0	0	Estrada - Espiritu				18/10/2004	EBS	ESC
6084A	499986.1183	1611309.0694	0	0	E. Torres - South Superhighway				18/10/2004	EBS	ESC
6084B	499902.1727	1611269.1143	30	2	Del Pilar - Torres	1	1	Poor drainage	18/10/2004	EBS	ESC
6085A	499888.1402	1611477.6057	0	0	South Superhighway - Francisco				18/10/2004	EBS	ESC
6085B	499817.0844	1611445.1507	40	8	Francisco - Del Pilar	4	4	Low - Lying Areas	18/10/2004	EBS	ESC
6086	499716.9200	1611396.5609	0	0	Leyte - Francisco				19/10/2004	EBS	ESC
6087	499649.8740	1611276.8952	50	2	Waling - Waling - Arellano	1	1	Poor drainage	19/10/2004	EBS	ESC
6088A	499646.2801	1611655.9254	0	0	Tuazon - San Andres				19/10/2004	EBS	ESC
6088B	499528.3122	1611849.5426	50	4	San Andres	2	2	Poor drainage	19/10/2004	EBS	ESC
6089	499711.9732	1611824.7542	20	2	South Superhighway - Mataas na Lupa	1	1	Poor drainage	19/10/2004	EBS	ESC
6090	499558.7238	1611869.9814	20	2	Munoz - Mataas na Lupa	1	1	Clogged drainage, garbage	19/10/2004	EBS	ESC
6091	499553.8310	1611782.2100	10	2	Narra - Munoz	1	1	Clogged drainage, garbage	19/10/2004	EBS	ESC
6092	499933.3072	1611783.2218	30	2	Diamante - Rubi	1	1	Poor drainage	19/10/2004	EBS	ESC
6093	499906.4536	1611755.6194	20	2	Diamante - Nakar	1	1	Poor drainage	19/10/2004	EBS	ESC
6094	499885.2775	1611694.8490	60	2	Perifita - San Andres	1	1	Clogged drainage	19/10/2004	EBS	ESC
6095	499839.7276	1611507.2911	0	0	Perifita - Francisco				19/10/2004	EBS	ESC
6096	500083.3940	1611653.4560	20	2	San Andres - Zapiro - Rubi	1	1	Clogged drainage	19/10/2004	EBS	ESC
6097	500189.4932	1611479.7769	40	4	Dagonoy - Nakar	2	2	Clogged drainage	19/10/2004	EBS	ESC
6098	500060.7453	1611345.0239	10	2	Dagonoy - Agata	1	1	Clogged drainage	19/10/2004	EBS	ESC
6099	500209.2354	1611251.0353	60	8	Opal - Estrada	4	4	Overbanking of nearby creek, clogged drainage	19/10/2004	EBS	ESC
6100	500335.2454	1611092.0592	10	2	Zobel - Agata	1	1	Poor drainage, clogged drainage	20/10/2004	EBS	ESC
6101	500385.0956	1611017.9353	20	2	Kamsong - Akie	1	1	Poor drainage, clogged drainage	20/10/2004	EBS	ESC
6102	500504.5543	1611089.8508	40	4	ABCD - Vito Cruz	2	2	Poor drainage, clogged drainage	20/10/2004	EBS	ESC
6103A	500501.0553	1611280.8706	0	0	Zobel - Balagtas			Poor drainage	20/10/2004	EBS	ESC
6103B	500535.7901	1611313.5056	40	4	Alabaastro - Zobel Roxas	2	2	Poor drainage	20/10/2004	EBS	ESC



# SUMMARY OF INUNDATION SURVEY RESULTS (20/21)

ID No.	Location		Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
	X	Y									
6104	500657.6874	1611435.7052	40	2	Onyx - Zobel Roxas	1	1	Heavy rains	20/10/2004	EBS	ESC
6105	500700.1947	1611222.8451	40	2	Dumas - Archimedes	1	1	Poor drainage, clogged drainage	20/10/2004	EBS	ESC
6106	500816.7841	1611059.0563	40	4	Florideliz - Vito Cruz Ext.	2	2	Poor drainage, clogged drainage	20/10/2004	EBS	ESC
6107	500685.6134	1610752.5780	0	0	Aranga - Santol				20/10/2004	EBS	ESC
6108	500476.3857	1610887.3306	10	2	Kamagong - Catmon	1	1		20/10/2004	EBS	ESC
6109	500417.8962	1610659.3551	0	0	Calantas - Santol				20/10/2004	EBS	ESC
6110	500581.8991	1610309.4285	20	2	Catmon - Mayapis	1	1	Poor drainage, clogged drainage	20/10/2004	EBS	ESC
6111	501251.5382	1611038.4435	40	2	Bakawan - Mayapis	1	1	Overbanking of nearby creek, clogged drainage	20/10/2004	EBS	ESC
6112	500951.6998	1611147.6483	20	2	Don Chino Roces - Pablo Ocampo	1	1	Poor drainage, clogged drainage	20/10/2004	EBS	ESC
6113	501116.9860	1611205.9443	60	8	Cervela - Onyx	2	2	Low - Lying Areas	20/10/2004	EBS	ESC
6114	501348.6201	1611229.7679	80	8	Mola - Davila	2	6	Poor drainage, clogged drainage	20/10/2004	EBS	ESC
6115	501603.5673	1611183.8555	30	2	Mascardo - Pasong Tamo	1	1	Low - Lying Areas	20/10/2004	EBS	ESC
6116	501545.7771	1611014.7946	20	2	Yague - Visita	1	1	Poor drainage, clogged drainage	20/10/2004	EBS	ESC
6117	501703.5482	1611003.2545	10	2	Visita - Vito Cruz	1	1	Poor drainage, clogged drainage	20/10/2004	EBS	ESC
6118	501354.2776	1610782.0390	20	2	South Ave. - Pablo Ocampo Ext.	1	1	Poor drainage, clogged drainage	20/10/2004	EBS	ESC
6119	501080.1519	1610704.5657	10	2	Kamagong - Dao	1	1	Low - Lying Areas	20/10/2004	EBS	ESC
6120	501006.9378	1610731.1021	0	0	Estrella - Chino Roces				20/10/2004	EBS	ESC
6121	500857.6745	1610344.3242	20	8	Lumbayo - Yakal	4	4	Poor drainage, low - lying areas	20/10/2004	EBS	ESC
6122	500969.6379	1610415.3643	10	2	Bakawan - Yakal	1	1	Heavy rains	21/10/2004	EBS	ESC
6123	501107.0348	1610964.5955	0	0	St. Paul - Kamagong				21/10/2004	EBS	ESC
6124	501071.7667	1611839.0156	0	0	Imalda - Zobel Roxas				21/10/2004	EBS	ESC
6125	501073.4577	1611953.9556	30	4	Samaguita	2	2	Poor drainage, clogged drainage	21/10/2004	EBS	ESC
6126	501168.1525	1611948.0395	0	0	Zobel Roxas - J.P. Rizal				21/10/2004	EBS	ESC
6127	501275.5296	1611789.1520	10	2	Nazario - J.P. Rizal	1	1	Heavy rains	21/10/2004	EBS	ESC
6128A	501596.3206	1611712.1732	10	2	A.P. Reyes - Hippodromo	1	1	Heavy rains	21/10/2004	EBS	ESC
6128B	501751.6563	1611654.2332	40	2	Zapote - Hippodromo	1	1	Heavy rains	21/10/2004	EBS	ESC
6129	501605.7979	1611848.3393	20	36	A.P. Reyes - Cristobal	1	1	No drainage	21/10/2004	EBS	ESC
6130	502100.9049	1611662.4494	10	2	Trabaho - Fortuna	1	1		21/10/2004	EBS	ESC
6131	501959.2164	1611430.6962	10	2	Calasanz - Obreiro	1	1		21/10/2004	EBS	ESC
6132	502204.3726	1611582.6699	S	2	Obreiro - Honradez	1	1	Overbanking of nearby creek	21/10/2004	EBS	ESC
6133	502260.1734	1611760.2894	10	2	Constandia - Hormiga	1	1	Heavy rains	21/10/2004	EBS	ESC
6134	502465.7548	1611848.0135	10	2	Osmena - J.B. Roxas	1	1		21/10/2004	EBS	ESC
6135	502626.8357	1611705.4864	0	0	Tanay - Osmena				21/10/2004	EBS	ESC
6136	502759.2018	1611597.7920	10	2	Cardona - Osmena	1	1	Heavy rains	21/10/2004	EBS	ESC
6137	502561.0539	1611538.0427	0	0	Teresa - Hormiga				21/10/2004	EBS	ESC
6138	502368.7009	1611664.1364	0	0	Pateros - Hormiga				21/10/2004	EBS	ESC
6139	502387.1796	1611453.5693	0	0	Pillilla - Obreiro				21/10/2004	EBS	ESC
6140	502506.3194	1611355.3326	10	1	Antipolo - J.P. Rizal	30	30		21/10/2004	EBS	ESC
6141	502619.8363	1611320.2424	0	0	Angono - J.P. Rizal				21/10/2004	EBS	ESC
6142	502781.2289	1611261.1295	0	0	Layug - J.P. Rizal				21/10/2004	EBS	ESC
6143	503011.9128	1611395.9874	0	0	Osmena - Zobel				21/10/2004	EBS	ESC
6144	503066.0151	1611454.2045	0	0	Zobel - A. Bonifacio				21/10/2004	EBS	ESC
6145	503163.4075	1611139.0947	10	1	Makati Ave. - J.P. Rizal	30	30		21/10/2004	EBS	ESC
6146	503219.4926	1611299.9503	0	0	A. Bonifacio - P. Burgos				21/10/2004	EBS	ESC
6147	503364.0434	1611123.0465	40	4	Mabini - J.P. Rizal	2	2	Poor drainage, heavy rains	21/10/2004	EBS	ESC
6148	503473.9196	1611056.9740	10	2	J.P. Rizal - Llaya	1	1		21/10/2004	EBS	ESC
6149	503639.1836	1611039.5762	20	1	J.P. Rizal - Estrella	30	30		21/10/2004	EBS	ESC
6150	503798.0781	1611026.0878	20	1	Camia - J.P. Rizal	30	30		21/10/2004	EBS	ESC
6151	501219.0148	1611672.4111	10	1	Sorchiaga	30	30		22/10/2004	EBS	ESC
6152	501077.6377	1611518.5357	10	1	Primo de Rivera - Ponte	30	30		22/10/2004	EBS	ESC
6153	500956.4856	1611284.1018	30	2	Mola - Primo de Rivera	1	1		22/10/2004	EBS	ESC
6154	501438.4363	1611406.5696	10	1	Montolo - Pasong Tamo	30	30		22/10/2004	EBS	ESC

# SUMMARY OF INUNDATION SURVEY RESULTS (21/21)

ID No.	Location		Maximum Depth of Flood (cm)	Duration of Flood (hrs)	Description of Location	Time for Flood to Rise (hrs)	Time for Flood to Recede (hrs)	Possible cause(s) of flooding	Survey Date	Surveyor	Checker
6155	X	500892.6192	1611744.9949	1	Onyx - Estrada	30	30		22/10/2004	EBS	ESC
6156		500569.2584	1611864.8251	1	Oro A - Dagonoy	30	30		22/10/2004	EBS	ESC
6157		500393.5886	1611696.7975	1	Onyx - Dagonoy	30	30		22/10/2004	EBS	ESC
6158		500261.3886	1611830.9705	1	Francisco - Onyx	30	30		22/10/2004	EBS	ESC
6159		500116.5900	1611970.1011	1	Onyx - Diamante	30	30		22/10/2004	EBS	ESC
6160		500918.4472	1610162.6636	1	Washington - Gil Puyat	30	30	Clogged drainage	22/10/2004	EBS	ESC
6161		500972.7852	1610027.9305	1	Washington - Dela Rosa	30	30	Clogged drainage	22/10/2004	EBS	ESC
6162		501216.6550	1610105.8428	1	Chino Roces - Dela Rosa	30	30		22/10/2004	EBS	ESC
6163		501158.9404	1610214.8596	1	Chino Roces - Tindalo	30	30		22/10/2004	EBS	ESC
6164		498856.3950	1610833.5500	1	Adriatico - Maginhawa	30	30		22/10/2004	EBS	ESC
6165		498978.7840	1610523.0210	1	Adriatico	30	30		22/10/2004	EBS	ESC

PCD Petronilo C. Decena Jr.  
 RJQ Ruchel J. Quebec  
 MST Michael S. Tabolabo  
 JAD Jingle Noemi A. Daguro  
 RBA Rudy B. Avila  
 EBS Estrella B. Songco  
 ESC Emmanuel S. Castillo