

Plate 1: Field Surveys (1) Waste Amount and Composition Survey

Waste Amount Survey



Collection of household waste samples



Weighing of waste samples

Waste Composition Survey



Thorough mixing of collected waste samples



After proper mixing, the waste was divided into four segments of approximately the same size and this is repeated until the volume is reduced to the desired volume.



Waste samples were put into a calibrated plastic bucket to record volume and weight.



Analysis of physical composition of waste samples

Plate 2: Field Surveys (2) Waste Amount and Composition Survey

Waste Composition Survey



Samples divided into 10 components were measured respectively



The components were dried to analyze their moisture contents



Measurement of moisture contents



Waste was grinded for chemical analysis



Ash contents and volatile solids were analyzed by burning samples



Lower calorific values of wastes were analyzed by using bomb calorimeter

Plate 3: Field Surveys (3) Time and Motion Survey and Public Opinion Survey (POS)

Time and Motion Survey



Investigation of collection activities



Interview to a driver of waste collection vehicle

Public Opinion Survey (POS)



Interview of households



Interview of households



Interview of private companies



Interview of private companies

Plate 4: Field Surveys (4) Recycle Market Survey and Water Quality Survey

Recycle Market Survey



A recycling company interviewed in the survey (recycling of aluminum cans)



Recycling process of aluminum cans



A recycling company interviewed in the survey (paper recycling)



containers of eggs are produced from papers

Water Quality Survey



Well construction for sampling groundwater



Surface water sampling

Plate 5: Field Surveys (5) Traffic Volume Survey and Topographic Survey

Traffic Volume Survey



Number of vehicles was counted at important sites of major streets



Waste collection vehicles were counted apart from ordinary vehicles

Topographic Survey



Topographic survey was conducted by using total stations



Control points were established in the Cerro Patacon Site

Geological Survey



Boring survey



Topsoil survey