



RESEARCH ARTICLE

A case study of urban gardening implementation and outcomes at material recovery facilities in Valenzuela City

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ABSTRACT (Use 12-point Times New Roman font, 1.0 spacing. An abstract of 150-300 words must contain the following points)

This case study examines the implementation and outcomes of the urban gardening project integrated within Material Recovery Facilities (MRFs) in Valenzuela City, Metro Manila. While the initiative was launched city-wide to address pressing issues of solid waste management and the scarcity of green spaces, Barangay Balangkas emerged as the sole community to achieve full compliance and sustained functionality. Using qualitative analysis and theoretical frameworks such as Systems Theory and Resilience Theory, the study evaluates the environmental, social, and economic impacts of the project. Key findings reveal that in Barangay Balangkas, the initiative successfully diverted approximately 30 cubic meters of organic waste from landfills annually through localized composting, while simultaneously fostering community cohesion and modest household food security. The research identifies that the disparity in success across different barangays is primarily rooted in the quality of local leadership, the effectiveness of stakeholder engagement, and the cultivation of a sense of collective ownership. The study concludes that the "Balangkas Model" serves as a viable blueprint for urban sustainability. Recommendations include the establishment of a city-wide mentorship program, targeted technical training, and the institutionalization of participatory governance to ensure long-term resilience. Ultimately, the project demonstrates how localized, community-driven ecological interventions can contribute significantly to broader Sustainable Development Goals (SDGs), particularly in the areas of sustainable cities, responsible production, and climate action.

Keywords: Urban Gardening, Material Recovery Facilities (MRF), Sustainable Waste Management, Community Engagement, Valenzuela City, Barangay Balangkas (Minimum of 4, maximum of 5 keywords)



INTRODUCTION (Times New Roman, Bold, 16)

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Theoretical Framework (Flush left, Bold, Title Case Heading, Times New Roman, 10)

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METHODOLOGY

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Research Design

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Participants and Sampling Technique

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Instrument

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Data Gathering Procedure

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Data Analysis Procedure

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Ethical Consideration

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RESULTS

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Table 1

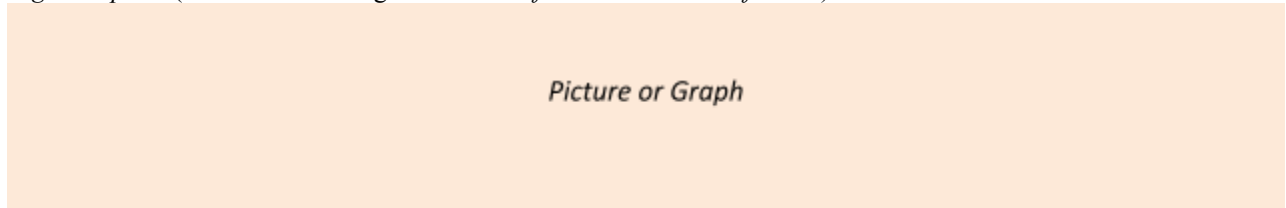
Table Caption (Title Case Heading ex. *Results of Pre-test and Posttest*)

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Note. (Extra explanation if any)

Figure 1

Figure caption (Title Case Heading ex. *Results of Stakeholders Satisfaction*)



Note. (Extra explanation if any)



DISCUSSIONS

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CONCLUSIONS

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Author Contributions (Flush left, Bold, Title Case Heading, Times New Roman, 10)
Author's 1 initials: xxxxxx. Author's 2 initials: xxxxx. Author's 3 initials: xxxx

- Conceptualization: Juan dela Cruz, Pedrito Cruz, Ramon Encarnacion, Procerfina Macaraeg
Software: Juan dela Cruz, Pedrito Cruz, Ramon Encarnacion, Procerfina Macaraeg
Validation: Juan dela Cruz, Pedrito Cruz, Ramon Encarnacion, Procerfina Macaraeg
Formal Analysis: Juan dela Cruz, Pedrito Cruz, Ramon Encarnacion, Procerfina Macaraeg
Data Curation: Juan dela Cruz, Pedrito Cruz, Ramon Encarnacion, Procerfina Macaraeg
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Drafting-Revision and Editing: Juan dela Cruz, Pedrito Cruz, Ramon Encarnacion, Procerfina Macaraeg
Visualization: Juan dela Cruz, Pedrito Cruz, Ramon Encarnacion, Procerfina Macaraeg
Supervision: Juan dela Cruz, Pedrito Cruz, Ramon Encarnacion, Procerfina Macaraeg

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Declaration of Generative AI

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REFERENCES

(Flush left, Bold, Title Case Heading, Times New Roman, 10)—Please adhere to the 7th APA

Journal Article

Author, A. A., & Author, B. B. (Year). Title of the article. *Name of the Periodical*, volume (issue), #-#. <https://doi.org/xxxx>

(Example: an article in a periodical as a reference)

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(Example: conference proceedings, book form)

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