



# THE PROBLEM OF WASTE DISPOSAL AND ITS IMPACT ON THE ENVIRONMENT: A CASE STUDY IN TEBING VILLAGE, TANAH PUTEH, PRABUMULIH CITY

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## Abstract :

*Problems disposal rubbish is one of the problem environment that is still faced community, including in the sub-district Tanah Puteh Cliff, Prabumulih City. Research This aim For describe problem disposal rubbish as well as analyze the impact to condition environment and life community. Research This use approach descriptive qualitative with method studies literature (library research). Data used in the form of secondary data obtained from article journal scientific, books, documents government, regulations legislation, and sources written other relevant data. Data is analyzed use analysis content through the process of data reduction, grouping based on themes, data presentation, and withdrawal conclusion. Study results show that problem disposal rubbish related close with behavior society, level knowledge and awareness, attitude, availability facilities and infrastructure, support family, and involvement government. Disposal trash that is not appropriate can cause environment become dirty, causing smell No delicious, disturbing channel drainage, improve risk puddles, and potential pollute land, water, and air. Efforts to overcome this need done in a way integrated through improvement awareness society, sorting rubbish since from home, application reduce, reuse, recycle (3R) principle, provision adequate facilities, as well as development management rubbish based public like a waste bank. Synergy between government and society required For realize a clean, healthy and sustainable environment.*

**Keywords :** disposal garbage, behavior society, environment, management garbage, 3R.

## INTRODUCTION

Rubbish is one of the problem environment that is not can separated from life human. Every activity human, good in activity House stairs, trade, and activity others, produce garbage. Along with increasing activities and needs society, number the waste produced also tends to be increases. If rubbish No managed with well, its existence can cause various problem to environment and life public (Rahayu & Hakim, 2022).

Problems rubbish No only related with amount waste produced, but also related with behavior public in dispose of and manage it. Habits throw away rubbish haphazard Still be one of frequent problems found in the environment society. The low awareness in guard cleanliness environment can cause rubbish



piled up in various places, such as edge road, land empty, channel drainage, and areas settlements. Conditions the No only bother beauty environment, but can also cause smell No delicious and become place development various organism carrier disease.

Disposal trash that is not done in a way right can also give greater impact wide to condition environment. Waste that is thrown away to channel drainage can cause blockage so that hinder water flow and increase risk occurrence puddle and floods, especially during season rain. In addition, the garbage that is piled up and not managed with Good potential cause pollution land, water, and air. Burning rubbish in a way can also be arbitrary produces disturbing smoke quality air and health public (Hakim et al., 2025).

Problems the show that management rubbish No only become not quite enough answer government, but also requires involvement society. Society has role important in reduce embossed trash, throw away trash in a designated place provided, sorted garbage, and guard cleanliness environment around. Awareness and participation public be one of factor important in create clean, healthy and comfortable environment.

Management garbage has also been become part from policy national. Based on Constitution Number 18 of 2008 concerning Management Trash, trash is problem national so that its management need done in a way comprehensive and integrated from upstream until downstream. Management rubbish aim For give benefit in a way economy, improve health society, maintaining sustainability environment, as well as change behavior public in handle trash. With Thus, management rubbish need Work The same between government, society, and various interested party (Ministry of Public Works, 2008).

In urban area context, problems disposal trash can also found at the level sub-district. One of the areas that became attention in study This is Ward Tanah Puteh Cliff, Prabumulih City. Problems disposal garbage in the area important For reviewed Because behavior public in throw away rubbish as well as condition management rubbish can give impact to cleanliness and quality environment around.

Existence trash that is not managed with Good potential bother comfort society and give rise to various problem environment.

Based on description mentioned, the problem disposal rubbish need get attention Because No only related with aspect cleanliness, but also can impact to health society, quality environment and comfort life everyday. Therefore that, article This discuss problem disposal waste and its impacts to environment with studies cases in the sub-district Tanah Puteh Cliff, Prabumulih City. Discussion directed For describe problem disposal rubbish as well as various the impact it causes to condition environment in the area.

## **RESEARCH METHODS**

Study This use approach descriptive qualitative with method studies literature (library research). Approach qualitative used For understand and describe something phenomenon based on data that is narrative research

qualitative emphasize meaning to something phenomenon as well as presentation in a way descriptive based on information obtained during the research process (Abdussamad, 2014).

Study method literature used in study This with method collect and review various source relevant written with problem disposal waste and its impacts to environment. Sources used covering article journal scientific, books, regulations legislation, documents government, as well as source written others. Use documents and materials written as source study in line with draft studies document in study qualitative, namely studies that focus on analysis or interpretation to material written based on the context (Abdussamad, 2014).

Data used in study This is secondary data obtained from various sources that have been available. Secondary data the in the form of the information contained in article journals, books, documents government, regulations legislation, and sources written other related matters with problem waste. Use of secondary data in study qualitative can done as material beginning For determine and strengthen focus study.

Election source literature done based on relevance with focus research, namely problem disposal garbage, behavior public in throw away waste, management waste, impact rubbish to environment, as well as effort its handling. The literature used prioritized originate from source relevant and scientific accounted for. Furthermore, the information obtained from various source read, recorded, and grouped based on appropriate theme with focus study.

data collection process is carried out through a number of stage, namely determine focus problem, looking for source relevant literature, selecting source based on suitability with topic research, reading and taking notes information important, and grouping data based on theme discussion. In study qualitative, the data analysis process is carried out in a way systematic For get understanding to the phenomenon being studied.

Data that has been collected furthermore analyzed use analysis content (content analysis). Analysis done with identify related information with problem disposal waste, factors reason behavior throw away rubbish carelessly, impact to environment, as well as role society and government in management trash. Data that has similarities theme Then grouped, compared, and interpreted For get a clearer picture comprehensive about the problem being researched.

Data analysis was performed through the process of data reduction, data presentation, and data extraction conclusion. Information that is not related direct with focus study selected, while relevant information arranged based on theme research. Presentation of data in study qualitative can done in form description narrative so that connection between various information can understood in a way more systematic.

Analysis results from various source Then interpreted For give description about problem disposal waste and its impacts to environment in the sub-district Tanah Puteh Cliff, Prabumulih City. Research This No using the results data interview or observation directly, but rather using secondary data obtained through study relevant literature and documents with problem study.

## **RESULTS AND DISCUSSION**

### **Problems Disposal Waste in the Community Environment**

Based on results review literature, problems disposal rubbish is problem related environment close with activities and behavior society. Improvement activity House ladder cause amount the waste produced is also increasing increasing. Problems the No only related with many waste produced, but also related with How rubbish the collected, sorted, transported, utilized, and disposed of. In context Ward Tanah Puteh Cliffs, problems disposal rubbish need understood as part from problem management environment at the level society, especially Because environment settlement is space that is direct accept impact from behavior disposal rubbish.

Literature show that behavior public be one of component important in success management waste. Research by Rahmawati and Wijayanti show that knowledge, attitude, availability facilities and infrastructure, access to information media, and support family have connection with behavior management trash. Findings the show that problem rubbish No can only seen from side existence facility disposal, but also necessary notice factor knowledge and attitudes society. With thus, if awareness public about importance management rubbish Still low, existence means disposal rubbish Not yet Of course in a way automatic produce behavior management good trash (Utami dkk: 2023).

Disposal rubbish can also be arbitrary happen when public Not yet have habit For sorting and managing rubbish since from source. Garbage House stairs in general consists of on rubbish organic and inorganic which have characteristics different. Garbage organic like remainder food can processed become compost, whereas rubbish inorganic like plastic, paper, bottles, and metal certain Still can utilized or recycled repeat. If all over type rubbish the mixed since from home, processing process become more difficult and partly big rubbish Finally only end as rubbish waste.

Study about behavior public in management rubbish show that sorting rubbish is one of the form important behavior in create system management more trash good. Research in East Denpasar District shows that behavior management rubbish public related with sorting rubbish organic and inorganic, application the principle of reduce, reuse, recycle (3R), as well as effort avoid disposal and incineration rubbish in a way haphazard research it also shows that knowledge public be one of important internal factors in form behavior management rubbish (Trisnawati & Khasanah, 2023).

Same problem can seen from study about behavior communities in residential areas. Management uncollected trash done can optimally marked with Still existence habit burn trash, throw away rubbish to water channels, or throw away trash in the wrong place should be. Condition the show that behavior disposal rubbish No only influenced by will individuals, but also by conditions environment and availability facilities. If environment provide easy

space used as place disposal, such as land empty or water channel, then place the potential utilized public as location disposal rubbish.

### **Community Behavior Factors in Disposal Rubbish**

Behavior public be one of factor main thing that is needed noticed in see problem garbage in the sub-district Tanah Puteh Cliff. Management garbage basically started from behavior individuals and homes ladder as source main embossed trash. Habits simple like provide place garbage, sorting waste, reduce use goods very use, and No throw away rubbish to water channels are actions that can be give influence to cleanliness environment if done in a way consistent.

The results of Rahmawati and Wijayanti's research show that knowledge and attitudes have connection with behavior management garbage (Isma & Ananto, 2022). This show that improvement knowledge public about type waste, impact disposal garbage, and how to proper management can be one of step in form more behavior good. Knowledge just of course No always ensure somebody will behave in accordance with his knowledge, but knowledge can become base in build awareness For do management rubbish.

In addition to knowledge and attitudes, availability facilities also have role important. Society will more easy apply behavior throw away trash in its place if available place adequate waste, location clear collection, as well system regular transportation. On the other hand, the limitations facility can be one of obstacle for public in do management garbage. Because of that that, the problem garbage at the level ward need seen as connection between behavior public with system service management available waste.

Fadhilah and Wijayanti's research shows existence connection between knowledge, attitudes, and availability means with behavior management waste (Utami, n.d.). Research the find that Still there is society that has behavior management rubbish not enough Good although part public have good knowledge and attitude. Findings This show that change behavior need support various elements, including adequate facilities and efforts coaching to public.

Family factors can also be influence habit somebody in treat household waste is place First somebody get habit about cleanliness and management environment. If member family used to sorting trash and throwing away trash in a designated place provided, custom the can develop become behavior daily. On the other hand, if habit throw away rubbish haphazard Already considered as something ordinary, then behavior the can Keep going taking place and becoming part from habit public.

### **Impact Disposal Rubbish to Environment**

Disposal trash that is not done with Good can give impact to various aspect environment. Piles of rubbish can reduce cleanliness and beauty environment settlements. In addition to causing an unseen view comfortable, stack trash can also produce unpleasant smell delicious, especially if rubbish organic mixed with rubbish others and left in long time. Condition that in the end can reduce comfort public in operate activity daily.

Impact environment from management trash that is not good also related with health community. Research about management garbage in Tegorejo Village show that low awarenss society, limitations facilities, and not yet availability place disposal while adequate can become problem in management garbage (Khoiriyah, 2021). Condition the show that management rubbish own relatedness with effort create clean and healthy environment.

Waste that is thrown away to channel drainage can cause different problem. Garbage that accumulates inside channel can hinder water flow so that when Rain no heavy water can flow with good. Condition the can increase possibility occurrence puddles. Because of that that, habit throw away rubbish to water channel not only become problem cleanliness, but also can related with condition drainage and comfort environment settlements. Study about behavior public in management rubbish settlement show existence practice throw away rubbish to drainage or water channels. The existence of easy drainage and water channels reachable can be one of driving factors part public make it as place disposal trash. Findings the show that characteristics environment physique can interact with behavior public in produce problem management rubbish (Saputro, 2022).

Besides pollution environment, combustion rubbish in a way open also can cause problem to quality air. Garbage House ladder certain can produces smoke when burned, especially waste containing material synthetic or plastic. Habits burn rubbish can appear Because public consider method the more fast For remove rubbish from environment house. However, the settlement rubbish with method burning No finish problem management in a way comprehensive Because rubbish only changed form and produce residue and emission to air.

Problems the show that impact disposal rubbish have mutual relationship related. Waste that is not managed can cause environment become dirty, causing smelly, disturbing drainage, potential pollute land and water, as well as lower quality air if burned. Because of that that, management rubbish must directed at efforts prevention embossed waste and management since from the source, not only move rubbish from One place to another place.

### **Importance Sorting and the 3R Principles**

One of efforts that can be made done For reduce problem rubbish is implementation the 3R principle, namely reduce, reuse, and recycle. Reduce means reduce use potential goods produce trash, reuse means use return items that are still have benefits, while recycle means process return rubbish become goods or materials that can used. Implementation third principle the can started from environment House ladder through action simple and done in a way sustainable.

Study about behavior the community in East Denpasar District shows that implementation the 3R principle is one of the part from behavior management good waste. The community that does sorting rubbish organic and inorganic as well as implementing reduce, reuse and recycle contribution in reduce amount trash that must be thrown away. This show that change behavior since level House ladder can become part important in support management rubbish urban (Trisnawati & Khasanah, 2023).

Sorting trash can also open opportunity utilization garbage that is still have mark economy. Garbage inorganic like bottle plastic, cardboard, paper, and metal certain can collected in a way separated so that more easy distributed for the recycling process repeat. Meanwhile that, trash organic can directed For processing compost if available adequate facilities and knowledge. With thus, garbage No all of it viewed as things that must be quick thrown away, but part can treated as source power that still exists have utility value.

### **The Role of Society in Management Rubbish**

Management rubbish No can fully charged to government. Government of course have not quite enough answer in provide policies, facilities, systems transportation and services garbage, but public is the party that produces rubbish every day. Because of that that, success management waste is highly dependent on involvement public since stage subtraction rubbish until sorting and disposal in appropriate places.

Study about management rubbish based public show that involvement public can be one of approach in overcome problem waste. The waste bank program, for example, does not only functioning as place collection rubbish inorganic, but can also push public For sorting trash and give mark economy to collected waste. Research regarding the Waste Bank Group Care Environment Harmonious show existence impact positive social, economic and environmental from management rubbish based public.

Draft management based public the can be one of relevant alternatives For developed in environment sub-district. The community can involved through activity Work devotion, sorting rubbish House stairs, collection rubbish inorganic, composting, and formation group manager garbage. Involvement public in a way direct can help building a sense of responsibility answer together to cleanliness environment.

Waste banks can also be one of alternative in increase mark economy trash. Through mechanism collection and sorting, society can get benefit economy at a time reduce amount incoming waste to place disposal end. However, the existence of a waste bank must supported with system consistent management, active management, participation community, and access to the receiving party or buy waste that has been sorted.

### **6. The Role of Government and Society in Overcome Problems Rubbish**

Problems disposal garbage in the sub-district Tanah Puteh Cliff needs synergy between society and government. Government ward can play a role in give education, providing or propose means waste management, managing activity cleanliness environment, as well as push formation group a society in motion in management garbage. On the other hand, society need operate habit management rubbish in a way consistent in life daily.

Study about participation public in management rubbish show that socialization and activities based community can increase awareness community. Activities discussion groups and socialization management rubbish

based community can become means for solving problems faced public at a time push emergence participation active in management rubbish.

Government efforts are also necessary accompanied by with provision appropriate facilities. Place trash, place collection, system transportation, as well as facility processing is interconnected parts relate. If one component No walk with good, system management rubbish can experience obstacles. Therefore, handling problem rubbish No Enough only through appeal to society, but also requires system services that can support public For do correct behavior.

Education and socialization about garbage is also necessary done in a way sustainable. Socialization No only explain prohibition throw away rubbish careless, but also necessary explain reason Why rubbish must sorted, how method reduce garbage, and What impacts that can happen if rubbish thrown away in a way No right. With approach said, the community expected No only know rules, but also understand benefit management rubbish for environment they Alone.

#### **Mitigation Efforts Problems Garbage in the Subdistrict Tanah Puteh Cliff**

Based on results synthesis various literature, prevention problem garbage in the sub-district Tanah Puteh Cliff can directed at several steps. First, increase awareness public about importance throw away and sort rubbish with right. Second, increase availability facilities and infrastructure waste. Third, implementing 3R principles in life House stairs. Fourth, push formation group public or waste bank. Fifth, increase Work The same between society, government sub-district, and parties related in management environment.

Research result about management rubbish based public through the waste bank in Kudus Regency shows that approach based public can help reduce rubbish at a time produce benefit social, economic, and environmental. Waste bank can be one of instrument For increase participation public Because give more mechanisms concrete in sorting and utilization rubbish.

Prevention efforts are also necessary consider characteristics society and conditions environment local. Management program waste that is applied in a area Not yet Of course can implemented in a way the same in other areas. Therefore that, activity management garbage in the sub-district Tanah Puteh Cliff is necessary customized with condition community, availability land, facilities garbage, habits society, as well as support government local.

With Thus, the results study show that problem disposal rubbish is issues of a nature complex. Behavioral factors, knowledge, attitudes, facilities, support family, and involvement government and society each other related in determine success management garbage. Therefore that, the solution problem garbage in the sub-district Tanah Puteh Cliff does not can done only through One approach, but need combination between change behavior community, provision facilities, education, implementation 3R principles, and strengthening participation public.

#### **General Discussion**

Based on overall results study, problem disposal garbage in the sub-district Tanah Puteh Cliff can understood as problem environment in need changes in level individual, home households, society, and government. Literature

reviewed show that behavior public have position important in determine succeed or whether or not system management rubbish. Good knowledge and attitude need supported with adequate facilities to be able to realized become behavior real.

Rahmawati and Wijayanti's findings strengthen conclusion the Because study they show connection between knowledge, attitude, means infrastructure, access information and support family with behavior management garbage. This means that the approach settlement problem rubbish need done in a way comprehensive, not only with give prohibition to community. Education, facilities, support family and environment social need walk in a way together so that changes behavior can maintained.

In context Ward Tanah Puteh Cliff, a possible approach developed is management rubbish based community. Approach the put public No only as producer garbage, but also as part from solution. The community can given room For involved in determine activity management appropriate waste with condition environment they. Activities like Work devotion, sorting waste, waste banks, composting, and education environment can become form participation carried out in a way gradually.

In the end, cleanliness environment No only can measured from how much often rubbish transported, but also from ability public in reduce embossed waste and managing rubbish since from the source. If public start get used to sorting, reducing use goods very use, use return items that are still worthy, and recycle repeat possible waste, then burden management rubbish can reduced. With Thus, efforts guard environment Ward Tanah Puteh Cliff can done in a way more sustainable through Work The same between society and government.

## **CONCLUSION**

Based on results study literature, problems disposal garbage in the sub-district Tanah Puteh Cliff, Prabumulih City, related close with behavior society, awareness in manage garbage, and availability facilities and infrastructure waste disposal trash that is not appropriate can cause various impact to cleanliness, comfort, health society, as well as condition environment.

Countermeasures problem the need involvement society and government in a way together. Possible efforts done among others, increasing awareness society, do sorting rubbish since from home, apply 3R principle, providing adequate facilities, as well as develop management rubbish based public like a trash bank. With Work sustainable management garbage in the sub-district Tanah Puteh Cliff is expected can become more good and supportive creation clean, healthy and comfortable environment.

## **BIBLIOGRAPHY**

Abdussamad, Zuchri. *Metode Penelitian Kualitatif. Encyclopedia of Quality of Life and Well-Being Research*, 2014. [https://doi.org/10.1007/978-94-007-0753-5\\_100875](https://doi.org/10.1007/978-94-007-0753-5_100875).

Hakim, Gilang Lukman, Agus Prasetya, Panut Mulyono, and Himawan Tri Bayu

- Murti Petrus. "Envirotek : Jurnal Ilmiah Teknik Lingkungan." *Jurnal Ilmiah Teknik Lingkungan* 16, no. 2 (2025): 90-96.
- Isma, Istiyana, and Aji Ananto. "Edu Geography (2022) Edu Geography." *Edu Geography* 10, no. 1 (2022): 59-65. [https://www.researchgate.net/profile/Alfyananda-Putra-2/publication/370866011\\_Pengembangan\\_Mobile\\_Apps\\_Stunami\\_Pada\\_Materi\\_Mitigasi\\_Bencana/links/6466c494c9802f2f72e5434b/Pengembangan-Mobile-Apps-Stunami-Pada-Materi-Mitigasi-Bencana.pdf](https://www.researchgate.net/profile/Alfyananda-Putra-2/publication/370866011_Pengembangan_Mobile_Apps_Stunami_Pada_Materi_Mitigasi_Bencana/links/6466c494c9802f2f72e5434b/Pengembangan-Mobile-Apps-Stunami-Pada-Materi-Mitigasi-Bencana.pdf).
- Khoiriyah, Himmatul. "Analisis Kesadaran Masyarakat Akan Kesehatan Terhadap Upaya Pengelolaan Sampah Di Desa Tegorejo Kecamatan Pegandon Kabupaten Kendal." *Indonesian Journal of Conservation* 10, no. 1 (2021): 13-20. <https://doi.org/10.15294/ijc.v10i1.30587>.
- Padilla Nur Utami, Eko Farida. "Indonesian Journal of Public Health and Nutrition." *Indonesian Journal of Public Health and Nutrition* 3, no. 3 (2023): 376-83.
- Rahayu, Devi Dwi, and Achmad Lukman Hakim. "Hubungan Sikap, Kebijakan Pengelolaan Sampah, Dan Dukungan Tenaga Kesehatan Masyarakat Terhadap Perilaku Membuang Sampah Sembarangan Pada Masyarakat Rw 09 Kelurahan Mampang Depok." *Ruwa Jurai: Jurnal Kesehatan Lingkungan* 16, no. 2 (2022): 101. <https://doi.org/10.26630/rj.v16i2.3512>.
- Saputro, Yusa Eko. "Pengelolaan Sampah Berbasis Masyarakat Melalui Bank Sampah." *Indonesia Journal of Conservation* 04 (2022): 83-94.
- Trisnawati, and Khasanah. "Penyuluhan Pengelolaan Sampah Dengan Konsep 3R Dalam Mengurangi Limbah Rumah Tangga." *Jurnal Cakrawala: Studi Manajemen Pendidikan Islam Dan Studi* 4, no. 2 (2023): 153-66. <http://journal.unnes.ac.id/sju/index.php/higeiahttps://doi.org/10.15294/higeia/v7i3/64641>.
- Umum, Kementerian Pekerjaan. "UU No 18 Tahun 2008" 23, no. 1 (2008): 61-64.