

Environmental Services



Page Intentionally Left Blank

Environmental Services

The Environmental Services Department (ESD) ensures City residents are provided with a clean and safe environment. The Department pursues waste management strategies that emphasize waste reduction and recycling, and environmentally sound landfill management.

2021 CIP Accomplishments

The Department continues to dedicate capital improvement resources towards its mission of providing reliable solid waste management, resource conservation, and environmental protection to preserve public health and ensure sustainable communities. The following are ESD's accomplishments for Fiscal Year 2021:

- Completed procurement and began replacement of one in-place scale at the entrance to the Miramar Landfill (B21000)
- Initiated procurement of modular restroom and locker buildings at the Miramar Landfill (L17000.6)
- Completed design and bidding for construction of the third of three planned projects to improve storm water quality at the Miramar Landfill (L18002.3)

2022 CIP Goals

The Department will continue to promote sustainability and public health through its effective delivery of capital improvement projects. The following are ESD's goals for Fiscal Year 2022:

- Solicit RFP to relocate and provide improvements to the Miramar Greenery (L17000.2)
- Complete procurement and installation of modular restroom and locker buildings at the Miramar Landfill (L17000.6)
- Initiate procurement of modular office buildings at the Miramar landfill (New)
- Complete construction of the third of three planned projects to improve storm water quality at the Miramar Landfill (L18002.3)
- Expand the Compressed Natural Gas (CNG) Fueling Station Facility at the ESD Collections Yard for fueling additional trucks to support SB 1383 organic collection (New)
- Initiate facility upgrades to ESD Collections Yard, including improvements to the drive-thru truck wash and security upgrades (New)
- Initiate facility improvements to the ESD Collections Yard Repair Shop necessary to accommodate additional trucks to support SB 1383 organic collection (New)
- Initiate planning for upgrades to the Landfill Gas (LFG) collection system at the South Chollas Landfill (New)
- Initiate planning for upgrades to the LFG collection system at the Arizona Street Landfill (New)
- Initiate planning for upgrades to the LFG collection system at the South Miramar Landfill (New)



Page Intentionally Left Blank

Environmental Services

Environmental Services: Capital Improvement Projects

| Project | Prior Fiscal Years | FY 2022 Adopted | Future Fiscal Years | Project Total |
|--|----------------------|---------------------|---------------------|----------------------|
| Covered Aerated Static Pile System / S16053 | \$ 5,000,000 | \$ - | \$ - | \$ 5,000,000 |
| Landfill Improvements / AFA00001 | 2,034,975 | 5,586,000 | 800,000 | 8,420,975 |
| Miramar Landfill Facility Improvements / L17000 | 25,139,286 | - | - | 25,139,286 |
| Miramar Landfill Storm Water Improvements / L18002 | 20,300,000 | - | - | 20,300,000 |
| Total | \$ 52,474,262 | \$ 5,586,000 | \$ 800,000 | \$ 58,860,262 |



Page Intentionally Left Blank

Environmental Services

Covered Aerated Static Pile System / S16053

Landfills

| | | | |
|----------------------------|-------------|-----------------------------|----------------------|
| Council District: | Non-City | Priority Score: | 93 |
| Community Planning: | Non-City | Priority Category: | High |
| Project Status: | Warranty | Contact Information: | Campos, Luis |
| Duration: | 2017 - 2022 | | 858-492-5035 |
| Improvement Type: | New | | lcampos@sandiego.gov |

Description: This project provides for design and construction of a covered Aerated Static Pile (ASP) system for processing organics at the Miramar Landfill's Greenery. This system will enhance the production and throughput of compost from clean source separated food scraps and yard waste.

Justification: AB-1826 and the City's Zero Waste Plan dictate significant increases in organic recycling. Stricter air emission and run-off water standards necessitate covered compost piles.

Operating Budget Impact: None.

Relationship to General and Community Plans: The Miramar Landfill is located on federal property and there is no community planning area. This project is in conformance with the City's General Plan.

Schedule: Design and construction are complete. Project administration and closeout is scheduled to be completed in Fiscal Year 2022.

Summary of Project Changes: The project schedule has been updated for Fiscal Year 2022 and to reflect the change order issued.

Expenditure by Funding Source

| Fund Name | Fund No | Exp/Enc | Con Appn | FY 2022 | FY 2022 Anticipated | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Future FY | Unidentified Funding | Project Total |
|--------------------------|---------|---------------------|-------------------|-------------|---------------------|-------------|-------------|-------------|-------------|-------------|----------------------|---------------------|
| Grant Fund - State | 600001 | \$ 2,407,447 | \$ 488,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 2,895,447 |
| Refuse Disposal CIP Fund | 700040 | 2,103,675 | 878 | - | - | - | - | - | - | - | - | 2,104,553 |
| Total | | \$ 4,511,121 | \$ 488,878 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 5,000,000 |

Environmental Services

Landfill Improvements / AFA00001

Landfills

| | | | |
|----------------------------|-------------|-----------------------------|----------------------|
| Council District: | Non-City | Priority Score: | Annual |
| Community Planning: | Non-City | Priority Category: | Annual |
| Project Status: | Continuing | Contact Information: | Campos, Luis |
| Duration: | 2010 - 2040 | | 858-492-5035 |
| Improvement Type: | New | | lcampos@sandiego.gov |

Description: This annual allocation provides for improvements to existing sanitary landfills to comply with operating permits and regulatory requirements. Such improvements may include fencing, access roads, drains, small structures, and environmental protection projects. This project also provides for improvements to existing landfill gas systems, including gas migration and groundwater monitoring networks at all landfills managed by the City. Improvements include upgrades to existing or additional facilities as deemed necessary by SB1383, as well as engineering reports and/or design plans and specifications necessary to mitigate landfill gas and groundwater issues or to modify monitoring programs.

Justification: This project provides the flexibility for timely initiation of improvements and construction needed to meet operational and solid waste regulatory mandates such as drainage, grading, landfill gas collection, and groundwater monitoring programs.

Operating Budget Impact: None.

Relationship to General and Community Plans: This project is consistent with applicable community plans and is in conformance with the City's General Plan.

Schedule: Projects are scheduled on a priority basis to meet regulatory requirements.

Summary of Project Changes: Funding has been added to support improvements required per SB1383. The Project Schedule has been updated for Fiscal Year 2022.

Expenditure by Funding Source

| Fund Name | Fund No | Exp/Enc | Con Appn | FY 2022 | FY 2022 Anticipated | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Future FY | Unidentified Funding | Project Total |
|-------------------------------------|---------|-------------------|---------------------|---------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------|----------------------|---------------------|
| CIP Contributions from General Fund | 400265 | \$ - | \$ - | \$ 5,071,600 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 5,071,600 |
| Recycling Fund CIP Fund | 700049 | - | - | 514,400 | - | - | - | - | - | - | - | 514,400 |
| Refuse Disposal CIP Fund | 700040 | 175,000 | 1,859,975 | - | - | 200,000 | 200,000 | 200,000 | 200,000 | - | - | 2,834,975 |
| Total | | \$ 175,000 | \$ 1,859,975 | \$ 5,586,000 | \$ - | \$ 200,000 | \$ 200,000 | \$ 200,000 | \$ 200,000 | \$ - | \$ - | \$ 8,420,975 |

Environmental Services

Miramar Landfill Facility Improvements / L17000

Landfills

| | | | |
|----------------------------|-------------|-----------------------------|-------------------------|
| Council District: | Non-City | Priority Score: | 77 |
| Community Planning: | Non-City | Priority Category: | Low |
| Project Status: | Continuing | Contact Information: | Fergusson, Craig |
| Duration: | 2017 - 2025 | | 858-627-3311 |
| Improvement Type: | New | | cfergusson@sandiego.gov |

Description: This project provides for the construction of infrastructure improvements at the Miramar Landfill. Phase I will provide for the development of a Resource Recovery Facility (RRF) to increase waste diversion from self-haul customers. Phase II will provide for the relocation of the Miramar Greenery as required to comply with conditions of a State-mandated Waste Discharge Requirement for Composting Operations. Phase III will provide for surface improvements to haul roads. Phase IV will provide for the acquisition of landfill gas collection and processing infrastructure currently in place as part of a transfer of gas rights. Phase V will provide for a backup power system for landfill gas collection and processing infrastructure. Phase VI will provide for the replacement of modular restroom and locker trailers that have exceeded their service life.

Justification: The Environmental Services Department (ESD) is responsible for managing operations, maintenance, and compliance of the West Miramar Landfill. This CIP will allow for the most efficient execution of future facility improvement projects and helps to implement the City's Climate Action Plan.

Operating Budget Impact: None.

Relationship to General and Community Plans: This project is located on federal property and there is no community planning area. This project is in conformance with the City's General Plan.

Schedule: Phase I was abandoned and closed in Fiscal Year 2021. Phase II design began in Fiscal Year 2021, with construction anticipated to begin in Fiscal Year 2023 and anticipated completion in Fiscal Year 2025. Phase III design was completed in Fiscal Year 2018, construction began in Fiscal Year 2019 and was completed in Fiscal Year 2020. Phase IV acquisition was completed in Fiscal Year 2019. Phase V was discontinued in Fiscal Year 2020. Phase VI procurement began in Fiscal Year 2020 with installations anticipated to begin in Fiscal Year 2022 and anticipated to be completed by Fiscal Year 2023.

Summary of Project Changes: The project schedule has been updated for Fiscal Year 2022.

Expenditure by Funding Source

| Fund Name | Fund No | Exp/Enc | Con Appn | FY 2022 | FY 2022 | | | | | | Unidentified Funding | Project Total |
|--------------------------|---------|---------------------|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------|----------------------|
| | | | | | Anticipated | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Future FY | | |
| Recycling Fund CIP Fund | 700049 | \$ - | \$ 16,000,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 16,000,000 |
| Refuse Disposal CIP Fund | 700040 | 4,306,908 | 4,832,378 | - | - | - | - | - | - | - | - | 9,139,286 |
| Total | | \$ 4,306,907 | \$ 20,832,378 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 25,139,286 |

Environmental Services

Miramar Landfill Storm Water Improvements / L18002

Landfills

| | | | |
|----------------------------|-------------|-----------------------------|-------------------------|
| Council District: | Non-City | Priority Score: | 88 |
| Community Planning: | Non-City | Priority Category: | Medium |
| Project Status: | Continuing | Contact Information: | Fergusson, Craig |
| Duration: | 2018 - 2025 | | 858-627-3311 |
| Improvement Type: | New | | cfergusson@sandiego.gov |

Description: The project provides for the construction of storm water infrastructure improvements at the Miramar Landfill to maintain regulatory compliance with the Storm Water Industrial General Permit. The project will be implemented in three phases: Phase I includes paving of haul roads, drainage improvements in the Greenery, stabilization of roadway shoulders and drainage channels, and hydroseeding of inactive fill areas; Phase II includes stabilization and/or hydroseeding of secondary roads, sediment traps, storm drain improvements, and basin expansion; Phase III includes improvements to existing basins and development of new basins where feasible.

Justification: The storm water basins and associated Best Management Practice (BMP) engineered structures at the Miramar Landfill must be properly designed and constructed to ensure compliance with National Pollutant Discharge Elimination System (NPDES) requirements and to avoid regulatory violations.

Operating Budget Impact: None

Relationship to General and Community Plans: This project is located on federal property and there is no community planning area. This project is in conformance with the City's General Plan.

Schedule: This project will be implemented in three phases. Construction of Phase I was completed in Fiscal Year 2020. Construction of Phase II was completed in Fiscal Year 2020. Design of Phase III was initiated in Fiscal Year 2020 with construction expected to be completed in Fiscal Year 2022.

Summary of Project Changes: No significant changes were made to this project for Fiscal Year 2022.

Expenditure by Funding Source

| Fund Name | Fund No | Exp/Enc | Con Appn | FY 2022 | FY 2022 | | | | | Future FY | Unidentified Funding | Project Total |
|--------------------------|---------|---------------------|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------|----------------------|
| | | | | | Anticipated | FY 2023 | FY 2024 | FY 2025 | FY 2026 | | | |
| Refuse Disposal CIP Fund | 700040 | \$ 7,193,886 | \$ 13,106,113 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 20,300,000 |
| Total | | \$ 7,193,886 | \$ 13,106,113 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 20,300,000 |