EXECUTIVE SUMMARY

The Department of Waste Management and Recycling (DWMR) Five-Year Capital Improvement Plan (CIP) includes department–wide equipment replacements and projects at the Kiefer Landfill and North Area Recovery Station. Kiefer Landfill projects are required for ongoing landfill operations and are prescribed by various state regulations and permit conditions. Ongoing Kiefer Landfill projects include expansion of the landfill gas collection system and construction of final cover. North Area Recovery Station capital projects will improve and repair the site as mandated by state regulations and permit conditions. The DWMR continues to replace fully-depreciated equipment for solid waste and recycling collection, recovery, and disposal operations. All DWMR capital projects are funded through the Solid Waste Enterprise Fund without any contributions from the County General Fund. The projects proposed to be completed in the 2016-17 Fiscal Year Capital Budget include an "Operating Budget Impact" statement.

The following is a representative sample of the Kiefer Landfill and the North Area Recovery Station projects in the DWMR 5-year CIP.

- **Kiefer Landfill – Final Cover** – These projects involve the phased construction of partial final closure components such as final cover, drainage improvements, and landfill gas modifications on Kiefer Landfill Unit 1. **Estimated Total Cost: $9,344,066**
- **North Area Recovery Station – Equipment Maintenance Facility** – This project involves the design and construction to replace the existing Equipment Maintenance and Repair facility. The existing facility is undersized and would require extensive improvements for ongoing use. **Estimated Total Cost: $5,000,000**

PROJECT SUMMARY

Projects Not Appearing on Previous 5-Year CIP are Highlighted								
PROJ #	PROJECT	PRIOR YEARS	FISCAL YEAR 2016-17	FISCAL YEAR 2017-18	FISCAL YEAR 2018-19	FISCAL YEAR 2019-20	FISCAL YEAR 2020-21	TOTAL
1	Collections - Automated Collections Trucks 2-Axle with Tag (1)	0	404,309	0	0	0	0	**$404,309**
2	Collections - Automated Collections Trucks 3-Axle with Tag (8)	0	3,398,352	0	0	0	0	**$3,398,352**
3	Collections - Knuckle Boom Truck	0	250,000	0	0	0	0	**$250,000**
4	Equipment Replacements	0	0	6,989,644	7,691,750	6,405,220	5,415,454	**$26,502,068**
5	Kiefer Landfill - Asphalt Pavement Rehabilitation	13,000	578,893	0	38,500	553,245	0	**$1,183,638**
6	Kiefer Landfill - Customer Rest Area	15,000	200,000	0	0	0	0	**$215,000**
7	Kiefer Landfill - Final Cover	1,008,200	2,566,831	121,708	2,677,571	129,120	2,840,636	**$9,344,066**
8	Kiefer Landfill - Gas and Leachate Management Systems Improvements	6,186,869	1,276,566	927,609	1,073,084	1,442,793	999,335	**$11,906,256**
9	Kiefer Landfill - Water Treatment Plant Infiltration Basin	0	100,000	0	0	0	0	**$100,000**
10	North Area Recovery Station - Equipment Maintenance Facility	0	5,000,000	0	0	0	0	**$5,000,000**
11	North Area Recovery Station - Kiefer Landfill - Camera Projects	0	100,000	0	0	0	0	**$100,000**
12	North Area Recovery Station - Land Transfer	2,001,669	250,278	250,278	250,278	250,278	0	**$3,002,781**
13	North Area Recovery Station - On Board Scales (15)	0	150,000	0	0	0	0	**$150,000**
14	North Area Recovery Station - Sedimentation Basin Mechanical Systems Improvements	0	390,000	0	0	0	0	**$390,000**
15	North Area Recovery Station - Stationary Compactor Replacement	0	1,400,000	0	0	0	0	**$1,400,000**
16	North Area Recovery Station - Transfer Tractor	0	177,170	0	0	0	0	**$177,170**
17	North Area Recovery Station - Transfer Trailer (5)	0	408,975	0	0	0	0	**$408,975**
	TOTAL	**$9,224,738**	**$16,651,374**	**$8,289,239**	**$11,731,183**	**$8,780,656**	**$9,255,425**	**$63,932,615**

PRIOR-YEAR COMPLETED/CANCELLED PROJECTS SUMMARY

PROJ #	PROJECT	PRIOR YEARS	FISCAL YEAR 2015-16	FISCAL YEAR 2016-17	FISCAL YEAR 2017-18	FISCAL YEAR 2018-19	FISCAL YEAR 2019-20	TOTAL	REASON DROPPED
1	Collections - Automated Collection Truck 2-Axle with Tag	0	403,000	0	0	0	0	**$403,000**	Completed
2	Collections - Automated Collections Trucks 3-Axle with Tag (12)	0	4,884,000	0	0	0	0	**$4,884,000**	Completed
3	Collections - Knuckle Boom Truck	0	250,000	0	0	0	0	**$250,000**	Completed
4	Collections - Knuckle Boom Trucks (2) FY15	0	500,000	0	0	0	0	**$500,000**	Completed
5	Equipment Replacements	0	0	7,205,000	9,995,000	4,648,000	9,204,000	**$31,052,000**	Project continues FY17
6	Kiefer Landfill - Administration Building HVAC Replacement	0	100,000	0	0	0	0	**$100,000**	Planned to be completed FY16
7	Kiefer Landfill - Backhoe	0	150,000	0	0	0	0	**$150,000**	Cancelled
8	Kiefer Landfill - Customer Rest Area	8,310	253,865	0	0	0	0	**$262,175**	Project continues FY17
9	Kiefer Landfill - Final Cover	950,107	75,000	1,799,277	0	0	250,000	**$3,074,384**	Project continues FY17
10	Kiefer Landfill - Gas and Leachate Management Systems Improvements	5,395,749	1,069,036	1,563,348	927,609	1,073,084	1,442,794	**$11,471,620**	Project continues FY17
11	Kiefer Landfill - Groundwater Remediation Project Upgrades	162,249	169,000	115,000	49,600	49,600	49,600	**$595,049**	Project continues FY17
12	Kiefer Landfill - Liner and Ancillary Features	0	146,000	0	0	225,523	5,187,021	**$5,558,544**	Project continues FY17
13	Kiefer Landfill - Roll-Off Truck	0	175,000	0	0	0	0	**$175,000**	Cancelled
14	Kiefer Landfill - Storm Water Improvements	0	209,330	0	0	0	0	**$209,330**	Suspended
15	Kiefer Landfill - Street Sweeper	0	235,000	0	0	0	0	**$235,000**	Completed
16	North Area Recovery Station - Land Transfer	1,751,391	250,278	250,278	250,278	250,278	250,278	**$3,002,781**	Completed
17	North Area Recovery Station - Master Plan Improvements	5,401,868	810,000	1,605,000	866,500	720,000	525,000	**$9,928,368**	Project rescoped
18	North Area Recovery Station - Roll-Off Truck	0	175,000	0	0	0	0	**$175,000**	Cancelled
19	North Area Recovery Station - Terminal Trackers (2)	0	200,000	0	0	0	0	**$200,000**	Completed
	TOTAL	**$13,669,674**	**$10,054,509**	**$12,537,903**	**$12,088,987**	**$6,966,485**	**$16,908,693**	**$72,226,251**	

Collections – Automated Collection Truck 2 – Axle with Tag (1)

9611 Conservation Road, Sacramento, 95827 Project #1

Department: Waste Management and Recycling

Estimated Project Cost: $404,309

Expected Completion Date: 2016

Funding Sources: Solid Waste Enterprise Fund Capital Outlay

Project Description:
This project is for the purchase of one fully-automated side-loading collection truck. This will be a 2-axle truck with tag, powered by compressed natural gas fuel with right hand drive. This vehicle will be used primarily for dead-end street routes and as a backup vehicle.

Collections – Automated Collection Truck 2-Axle with Tag (1)

Estimated Project Costs	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Construction Costs	0	0	0	0	0	0	0
Project Management/ Design (In-House)	0	0	0	0	0	0	0
Project Management/ Design (Consultant)	0	0	0	0	0	0	0
Construction Fees and Services	0	0	0	0	0	0	0
Right-of-way/ Land Acquisition	0	0	0	0	0	0	0
Purchase Cost (Equip/Vehicle)	0	404,309	0	0	0	0	404,309
Other	0	0	0	0	0	0	0
TOTAL	**0**	**404,309**	**0**	**0**	**0**	**0**	**404,309**

Funding Sources	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Solid Waste Enterprise Fund Capital Outlay	0	404,309	0	0	0	0	404,309
TOTAL	**0**	**404,309**	**0**	**0**	**0**	**0**	**404,309**

Project Analysis:

Analysis Done	Analysis Results
Operating budget impact analyzed	Project will result in a decrease in operating costs due to less maintenance for new equipment.

Collections – Automated Collection Trucks 3 – Axle with Tag (8)

9611 Conservation Road, Sacramento, 95827 Project #2

Department: Waste Management and Recycling

Estimated Project Cost: $3,398,352

Expected Completion Date: 2017

Funding Sources: Solid Waste Enterprise Fund Capital Outlay

Project Description:
This project is for the purchase of eight fully-automated side-loading collection trucks. These will be 3-axle with tag trucks, powered by compressed natural gas fuel with right hand drive. These vehicles will be used primarily for prime routes, and as backup vehicles.

Collections – Automated Collection Trucks 3-Axle with Tag (8)

Estimated Project Costs	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Construction Costs	0	0	0	0	0	0	0
Project Management/ Design (In-House)	0	0	0	0	0	0	0
Project Management/ Design (Consultant)	0	0	0	0	0	0	0
Construction Fees and Services	0	0	0	0	0	0	0
Right-of-way/Land Acquisition	0	0	0	0	0	0	0
Purchase Cost (Equip/Vehicle)	0	3,398,352	0	0	0	0	3,398,352
Other	0	0	0	0	0	0	0
TOTAL	**0**	**3,398,352**	**0**	**0**	**0**	**0**	**3,398,352**

Funding Sources	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Solid Waste Enterprise Fund Capital Outlay	0	3,398,352	0	0	0	0	3,398,352
TOTAL	**0**	**3,398,352**	**0**	**0**	**0**	**0**	**3,398,352**

Project Analysis:

Analysis Done	Analysis Results
Operating budget impact analyzed	Project will result in a decrease in operating costs due to less maintenance for new equipment.

Collections – Knuckle Boom Truck

9611 Conservation Road, Sacramento, CA 95827 Project #3

Department: Waste Management and Recycling

Estimated Project Cost: $250,000

Expected Completion Date: 2016

Funding Sources: Solid Waste Enterprise Fund Capital Outlay

Project Description:
This project is for the purchase of one knuckle boom collection truck. This will be a 2 – axle truck, powered by compressed natural gas fuel. This vehicle will be used primarily for our Appointment Based Neighborhood Clean Up routes. It will also be used to pick up illegally dumped rubbish piles in unincorporated Sacramento County.

Collections – Knuckle Boom Truck

Estimated Project Costs	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 20118-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Construction Costs	0	0	0	0	0	0	0
Project Management/ Design (In-House)	0	0	0	0	0	0	0
Project Management/ Design (Consultant)	0	0	0	0	0	0	0
Construction Fees and Services	0	0	0	0	0	0	0
Right-of-way/Land Acquisition	0	0	0	0	0	0	0
Purchase Cost (Equip/Vehicle)	0	250,000	0	0	0	0	250,000
Other	0	0	0	0	0	0	0
TOTAL	**0**	**250,000**	**0**	**0**	**0**	**0**	**250,000**

Funding Sources	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 20118-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Solid Waste Enterprise Fund							
Capital Outlay	0	250,000	0	0	0	0	250,000
TOTAL	**0**	**250,000**	**0**	**0**	**0**	**0**	**250,000**

Project Analysis:

Analysis Done	Analysis Results
Operating budget impact analyzed	Project will result in a decrease in operating costs due to less maintenance for new equipment.

Equipment Replacements

12701 Kiefer Boulevard, Sloughhouse, CA 95683
4450 Roseville Road, North Highlands, CA 95660
9611 Conservation Road, Sacramento, CA 95827 Project #4

Department: Waste Management and Recycling **Estimated Project Cost:** $26,502,068

Expected Completion Date: 2021

Funding Sources: Solid Waste Enterprise Fund Capital Outlay

Project Description:
This project displays the amounts of anticipated equipment purchases to replace older equipment for various Collection, Landfill, Transfer, Engineering, and Special Waste programs.

Equipment Replacement

Estimated Project Costs	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Construction Costs	0	0	0	0	0	0	0
Project Management/ Design (In-House)	0	0	0	0	0	0	0
Project Management/ Design (Consultant)	0	0	0	0	0	0	0
Construction Fees and Services	0	0	0	0	0	0	0
Right-of-way.Land/Acquisition	0	0	0	0	0	0	0
Purchase Cost (Equip/Vehicle)	0	0	6,989,644	7,691,750	6,405,220	5,415,454	26,502,068
Other	0	0	0	0	0	0	0
TOTAL	**0**	**0**	**6,989,644**	**7,691,750**	**6,405,220**	**5,415,454**	**26,502,068**

Funding Sources	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Solid Waste Enterprise Fund Capital Outlay	0	0	6,989,644	7,691,750	6,405,220	5,415,454	26,502,068
TOTAL	**0**	**0**	**6,989,644**	**7,691,750**	**6,405,220**	**5,415,454**	**26,502,068**

Project Analysis:

Analysis Done	Analysis Results
Operating budget impact analyzed	Project will result in a decrease in operating costs due to less maintenance for new equipment.

Kiefer Landfill – Asphalt Pavement Rehabilitation

12701 Kiefer Blvd., Sloughhouse, CA 95683 Project #5

Department: Waste Management & Recycling

Estimated Project Cost: $1,183,638

Expected Completion Date: 2020

Funding Sources: Solid Waste Enterprise Fund Capital Outlay

Project Description:
This project is for rehabilitation of the main on-site road at Kiefer Landfill. This road is approximately 1.3 miles long and consists of one lane in each direction. The length of the project is approximately 0.75 miles. This project is expected to result in a 10-year service life for the new pavement.

Future phases of this ongoing project include design, construction, construction management, and inspection for the repair and reconstruction of asphalt pavement at Kiefer Landfill.

Kiefer Landfill – Asphalt Pavement Rehabilitation

Estimated Project Costs	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Construction Costs	0	508,153	0	0	479,000	0	987,153
Project Management/ Design (In-House)	0	0	0	0	0	0	0
Project Management/ Design (Consultant)	13,000	0	0	38,500	0	0	51,500
Construction Fees and Services	0	70,740	0	0	74,245	0	144,985
Right-of-way/Land Acquisition	0	0	0	0	0	0	0
Puchase Cost (Equip/Vehicle)	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
TOTAL	**13,000**	**578,893**	**0**	**38,500**	**553,245**	**0**	**1,183,638**

Funding Sources	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Solid Waste Enterprise Fund							
Capital Outlay	13,000	578,893	0	38,500	553,245	0	1,183,638
TOTAL	**13,000**	**578,893**	**0**	**38,500**	**553,245**	**0**	**1,183,638**

Project Analysis:

Analysis Done	Analysis Results
Operating budget impact analyzed	The operating cost of this project has no measureable impact on the operating budget.
Age of existing facility/system/equipment	Pavement replacement is planned in accordance with an engineered pavement management plan.

Kiefer Landfill – Customer Rest Area

12701 Kiefer Blvd., Sloughhouse, CA 95683 Project #6

Department: Waste Management & Recycling

Estimated Project Cost: $215,000

Expected Completion Date: 2016

Funding Sources: Solid Waste Enterprise Fund Capital Outlay

Project Description:
This project consists of construction of a customer rest area adjacent to the Kiefer Landfill exit within the facility's gated area. The project will include customer restrooms and a shaded picnic table area.

Kiefer Landfill – Customer Rest Area

Estimated Project Costs	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Construction Costs	0	200,000	0	0	0	0	200,000
Project Management/ Design (In-House)	15,000	0	0	0	0	0	15,000
Project Management/ Design (Consultant)	0	0	0	0	0	0	0
Construction Fees and Services	0	0	0	0	0	0	0
Right-of-way/Land Acquisition	0	0	0	0	0	0	0
Purchase Cost (Equip/Vehicle)	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
TOTAL	**15,000**	**200,000**	**0**	**0**	**0**	**0**	**215,000**

Funding Sources	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Solid Waste Enterprise Fund							
Capital Outlay	15,000	200,000	0	0	0	0	215,000
TOTAL	**15,000**	**200,000**	**0**	**0**	**0**	**0**	**215,000**

Project Analysis:

Analysis Done	Analysis Results
Operating budget impact analyzed	Project will result in an increase in operating costs due to it being a new facility.

Kiefer Landfill – Final Cover

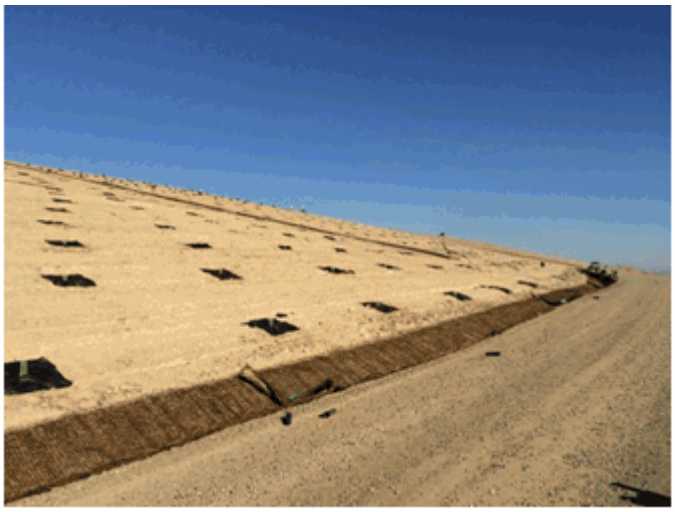
12701 Kiefer Blvd., Sloughhouse, CA 95683 Project #7

Department: Waste Management & Recycling

Estimated Project Cost: $9,344,066

Expected Completion Date: 2020

Funding Sources: Solid Waste Enterprise Fund Capital Outlay



Project Description:
This project includes the planning, design, construction, construction management, inspections, and reporting associated with construction of partial final closure components such as final cover, drainage improvements, landfill gas modifications, vegetation, and erosion control.

This project also consists of planning, design, and construction of storm water improvements near the main entrance/exit at Kiefer Landfill. Improvements are also necessary to convey storm water to the existing on-site sedimentation basin.

Kiefer Landfill – Final Cover

Estimated Project Costs	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Construction Costs	0	2,402,943	0	2,434,155	0	2,582,396	7,419,494
Project Management/ Design (In-House)	0	0	0	0	0	0	0
Project Management/ Design (Consultant)	1,008,200	81,944	121,708	121,708	129,120	129,120	1,591,800
Construction Fees and Services	0	81,944	0	121,708	0	129,120	332,772
Right-of-way/Land Acquisition	0	0	0	0	0	0	0
Puchase Cost (Equip/Vehicle)	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
TOTAL	**1,008,200**	**2,566,831**	**121,708**	**2,677,571**	**129,120**	**2,840,636**	**9,344,066**

Funding Sources	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Solid Waste Enterprise Fund							
Capital Outlay	1,008,200	2,566,831	121,708	2,677,571	129,120	2,840,636	9,344,066
TOTAL	**1,008,200**	**2,566,831**	**121,708**	**2,677,571**	**129,120**	**2,840,636**	**9,344,066**

Project Analysis:

Analysis Done	Analysis Results
Operating budget impact analyzed	The project will not result in a significant impact to existing operating costs.

Kiefer Landfill – Gas and Leachate Management Systems Improvements

12701 Kiefer Blvd., Sloughhouse, CA 95683 Project #8

Department: Waste Management & Recycling

Estimated Project Cost: $11,906,256

Expected Completion Date: 2021

Funding Sources: Solid Waste Enterprise Fund Capital Outlay

Project Description:
This project includes expansion of the Kiefer Landfill gas collection system into Module 3 (M3) and installation of additional gas and leachate infrastructure in and around modules M1, M1-L, and M2. Additional gas collectors are required to maintain compliance with regulatory requirements. The project will involve the installation of new and replacement wells, horizontal gas collectors, and new piping. Leachate recirculation system components will be installed in module M3. This budget also includes costs for replacement of flare station and energy plant equipment.

Kiefer Landfill – Gas and Leachate Management Systems Improvements

Estimated Project Costs	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Construction Costs	6,186,869	783,970	480,530	607,030	928,515	542,900	9,529,814
Project Management/ Design (In-House)	0	0	0	0	0	0	0
Project Management/ Design (Consultant)	0	39,199	24,026	30,351	46,426	27,145	167,147
Construction Fees and Services	0	78,397	48,053	60,703	92,852	54,290	334,295
Right-of-way/Land Acquisition	0	0	0	0	0	0	0
Purchase Cost (Equip/Vehicle)	0	375,000	375,000	375,000	375,000	375,000	1,875,000
Other	0	0	0	0	0	0	0
TOTAL	**6,186,869**	**1,276,566**	**927,609**	**1,073,084**	**1,442,793**	**999,335**	**11,906,256**

Funding Sources	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Solid Waste Enterprise Fund							
Capital Outlay	6,186,869	1,276,566	927,609	1,073,084	1,442,793	999,335	11,906,256
TOTAL	**6,186,869**	**1,276,566**	**927,609**	**1,073,084**	**1,442,793**	**999,335**	**11,906,256**

Project Analysis:

Analysis Done	Analysis Results
Operating budget impact analyzed	The project will result in an increase in operating costs due to installation of new facilities.
Age of existing facility/system/equipment	The original Module M1 landfill gas extraction wells were installed during 1997. System expansion has been ongoing. Wells require replacement when no longer effectively collecting landfill gas.

Kiefer Landfill – Water Treatment Plant Infiltration Basin

12701 Kiefer Blvd., Sloughhouse, CA 95683 Project #9

Department: Waste Management & Recycling

Estimated Project Cost: $100,000

Expected Completion Date: 2017

Funding Sources: Solid Waste Enterprise Fund Capital Outlay

Project Description:
This project includes the design and permitting of a new basin to receive groundwater treated at the existing Kiefer Treatment Plant. Basin discharge will reduce expenses compared to those currently experienced with creek discharge. The project will only be implemented if the Department secures approval from the Regional Water Quality Control Board. The $100,000 shown on the budget does not include mechanical improvements.

Kiefer Landfill – Water Treatment Plant Infiltration Basin

Estimated Project Costs	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Construction Costs	0	63,000	0	0	0	0	63,000
Project Management/ Design (In-House)	0	0	0	0	0	0	0
Project Management/ Design (Consultant)	0	30,000	0	0	0	0	30,000
Construction Fees and Services	0	7,000	0	0	0	0	7,000
Right-of-way/Land Acquisition	0	0	0	0	0	0	0
Purchase Cost (Equip/Vehicle)	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
TOTAL	**0**	**100,000**	**0**	**0**	**0**	**0**	**100,000**

Funding Sources	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Solid Waste Enterprise Fund Capital Outlay	0	100,000	0	0	0	0	100,000
TOTAL	**0**	**100,000**	**0**	**0**	**0**	**0**	**100,000**

Project Analysis:

Analysis Done	Analysis Results
Operating budget impact analyzed	The operating cost impact of this project is unknown at this time.
Return on Investment(ROI) analyzed	Work will reduce current expenses. Eight year payback expected.

North Area Recovery Station – Equipment Maintenance Facility

4450 Roseville Road, North Highlands, CA 95660 Project #10

Department: Waste Management & Recycling

Estimated Project Cost: $5,000,000

Expected Completion Date: 2017

Funding Sources: Solid Waste Enterprise Fund Capital Outlay

Project Description:
This project includes design and construction to replace the existing Equipment Maintenance Facility, most of which was built in 1973. The existing facility is undersized and would require extensive improvements and repairs for ongoing use.

North Area Recovery Station – Equipment Maintenance Facility

Estimated Project Costs	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Construction Costs	0	5,000,000	0	0	0	0	5,000,000
Project Management/ Design (In-House)	0	0	0	0	0	0	0
Project Management/ Design (Consultant)	0	0	0	0	0	0	0
Construction Fees and Services	0	0	0	0	0	0	0
Right-of-way/Land Acquisition	0	0	0	0	0	0	0
Purchase Cost (Equip/Vehicle)	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
TOTAL	**0**	**5,000,000**	**0**	**0**	**0**	**0**	**5,000,000**

Funding Sources	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Solid Waste Enterprise Fund Capital Outlay	0	5,000,000	0	0	0	0	5,000,000
TOTAL	**0**	**5,000,000**	**0**	**0**	**0**	**0**	**5,000,000**

Project Analysis:

Analysis Done	Analysis Results
Operating budget impact analyzed	Project will result in a decrease in operating costs due to less maintenance and increased operational efficiency.
Age of existing facility/system/equipment	Existing facility is 30 to 43 years old.

North Area Recovery Station – Kiefer Landfill – Camera Projects

4450 Roseville Road, North Highlands, CA 95660
12701 Kiefer Blvd., Sloughhouse, CA 95683 Project #11

Department: Waste Management & Recycling

Estimated Project Cost: $100,000

Expected Completion Date: 2017

Funding Sources: Solid Waste Enterprise Fund Capital Outlay

Project Description:
This project will upgrade the cameras used on-site at North Area Recovery Station, Kiefer Landfill, and DWMR administrative offices to high-definition systems.

North Area Recovery Station – Kiefer Landfill - Camera Projects

Estimated Project Costs	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Construction Costs	0	0	0	0	0	0	0
Project Management/ Design (In-House)	0	0	0	0	0	0	0
Project Management/ Design (Consultant)	0	0	0	0	0	0	0
Construction Fees and Services	0	0	0	0	0	0	0
Right-of-way/Land Acquisition	0	0	0	0	0	0	0
Purchase Cost (Equip/Vehicle)	0	100,000	0	0	0	0	100,000
Other	0	0	0	0	0	0	0
TOTAL	**0**	**100,000**	**0**	**0**	**0**	**0**	**100,000**

Funding Sources	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Solid Waste Enterprise Fund Capital Outlay	0	100,000	0	0	0	0	100,000
TOTAL	**0**	**100,000**	**0**	**0**	**0**	**0**	**100,000**

Project Analysis:

Analysis Done	Analysis Results
Operating budget impact analyzed	The completion of this project will have no impact on the operating budget.
Age of existing facility/system/equipment	The current equipment will be upgraded to high-definition.

North Area Recovery Station – Land Transfer

4450 Roseville Road, North Highlands, CA 95660 Project #12

Department: Waste Management & Recycling

Estimated Project Cost: $3,002,781

Expected Completion Date: 2019

Funding Sources: Solid Waste Enterprise Fund Capital Outlay

Project Description:
The Sacramento County Department of Waste Management and Recycling (DWMR) has agreed to the transfer of land located at the North Area Recovery Station from the Sacramento County Department of Economic Development and Intergovernmental Affairs (Econ Dev), and to complete the financial obligation agreed to in the June 22, 1999 Informational Report to the Board of Supervisors and the approved July 20, 1999 Board action, Resolution 99-0917.

The price for the transfer of the asset shall be two million, five hundred thousand dollars ($2,500,000 plus interest). DWMR made the initial payment to Econ Dev of $500,000 on July 1, 2009, and will continue to make annual payments of $250,278 for ten years through July 1, 2019.

North Area Recovery Station – Land Transfer

Estimated Project Costs	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Construction Costs	0	0	0	0	0	0	0
Project Management/ Design (In-House)	0	0	0	0	0	0	0
Project Management/ Design (Consultant)	0	0	0	0	0	0	0
Construction Fees and Services	0	0	0	0	0	0	0
Right-of-way/Land Acquisition	0	0	0	0	0	0	0
Purchase Cost (Equip/Vehicle)	0	0	0	0	0	0	0
Land Transfer	2,001,669	250,278	250,278	250,278	250,278	0	3,002,781
TOTAL	**2,001,669**	**250,278**	**250,278**	**250,278**	**250,278**	**0**	**3,002,781**

Funding Sources	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Solid Waste Enterprise Fund							
Capital Outlay	2,001,669	250,278	250,278	250,278	250,278	0	3,002,781
TOTAL	**2,001,669**	**250,278**	**250,278**	**250,278**	**250,278**	**0**	**3,002,781**

Project Analysis:

Analysis Done	Analysis Results
Operating budget impact analyzed	This project has no measurable impact on the operating budget once complete.

North Area Recovery Station – On-Board Scales (15)

4450 Roseville, North Highlands, CA 95660 Project #13

Department: Waste Management and Recycling

Estimated Project Cost: $150,000

Expected Completion Date: 2016

Funding Sources: Solid Waste Enterprise Fund Capital Outlay

Project Description:
This project is for the purchase of 15 on-board axle scales. These scales will be used primarily at the North Area Recovery Station to weigh loads of material loaded into transfer trailers.

North Area Recovery Station – On-Board Scales (15)

Estimated Project Costs	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Construction Costs	0	0	0	0	0	0	0
Project Management/ Design (In-House)	0	0	0	0	0	0	0
Project Management/ Design (Consultant)	0	0	0	0	0	0	0
Construction Fees and Services	0	0	0	0	0	0	0
Right-of-way/Land Acquisition	0	0	0	0	0	0	0
Purchase Cost (Equip/Vehicle)	0	150,000	0	0	0	0	150,000
Other	0	0	0	0	0	0	0
TOTAL	**0**	**150,000**	**0**	**0**	**0**	**0**	**150,000**

Funding Sources	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Solid Waste Enterprise Fund							
Capital Outlay	0	150,000	0	0	0	0	150,000
TOTAL	**0**	**150,000**	**0**	**0**	**0**	**0**	**150,000**

Project Analysis:

Analysis Done	Analysis Results
Operating budget impact analyzed	Project will result in decreased operation costs due to less travel time involved with driving to and from the onsite stationary scales.

North Area Recovery Station – Sedimentation Basin Mechanical Systems Improvements

4450 Roseville Road, North Highlands, CA 95660 Project #14

Department: Waste Management & Recycling

Estimated Project Cost: $390,000

Expected Completion Date: 2017

Funding Sources: Solid Waste Enterprise Fund Capital Outlay

Project Description:
This project includes the purchase and installation of a controlling pump station and conveyance that will divert sediment laden storm water to an on-site basin for detention and settling. The project will include automatic controls and substantial landscaping and irrigation.

North Area Recovery Station – Sedimentation Basin Mechanical Systems Improvements

Estimated Project Costs	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Construction Costs	0	340,000	0	0	0	0	340,000
Project Management/ Design (In-House)	0	0	0	0	0	0	0
Project Management/ Design (Consultant)	0	10,000	0	0	0	0	10,000
Construction Fees and Services	0	40,000	0	0	0	0	40,000
Right-of-way/Land Acquisition	0	0	0	0	0	0	0
Purchase Cost (Equip/Vehicle)	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
TOTAL	**0**	**390,000**	**0**	**0**	**0**	**0**	**390,000**

Funding Sources	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Solid Waste Enterprise Fund							
Capital Outlay	0	390,000	0	0	0	0	390,000
TOTAL	**0**	**390,000**	**0**	**0**	**0**	**0**	**390,000**

Project Analysis:

Analysis Done	Analysis Results
Operating budget impact analyzed	The completion of this project has no measurable impact on the operating budget.

North Area Recovery Station – Stationary Compactor Replacement

4450 Roseville Road, North Highlands, 95660 Project #15

Department: Waste Management and Recycling

Estimated Project Cost: $1,400,000

Expected Completion Date: 2017

Funding Sources: Solid Waste Enterprise Fund Capital Outlay

Project Description:
This project is for the purchase of a stationary compactor. The compactor will be located at the North Area Recovery Station to compact and load waste material in preparation for transport to Kiefer Landfill. This project will replace a current stationary compactor.

North Area Recovery Station – Stationary Compactor Replacement

Estimated Project Costs	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Construction Costs	0	0	0	0	0	0	0
Project Management/ Design (In-House)	0	0	0	0	0	0	0
Project Management/ Design (Consultant)	0	0	0	0	0	0	0
Construction Fees and Services	0	0	0	0	0	0	0
Right-of-way/Land Acquisition	0	0	0	0	0	0	0
Purchase Cost (Equip/Vehicle)	0	1,400,000	0	0	0	0	1,400,000
Other	0	0	0	0	0	0	0
TOTAL	**0**	**1,400,000**	**0**	**0**	**0**	**0**	**1,400,000**

Funding Sources	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Solid Waste Enterprise Fund Capital Outlay	0	1,400,000	0	0	0	0	1,400,000
TOTAL	**0**	**1,400,000**	**0**	**0**	**0**	**0**	**1,400,000**

Project Analysis:

Analysis Done	Analysis Results
Operating budget impact analyzed	This project will result in a decrease in the operating budget due to replacement of an older stationary compactor that experiences high maintenance costs.

North Area Recovery Station – Transfer Tractor

4450 Roseville Road, North Highlands, 95660 Project #16

Department: Waste Management and Recycling

Estimated Project Cost: $177,170

Expected Completion Date: 2016

Funding Sources: Solid Waste Enterprise Fund Capital Outlay

Project Description:
This project is for the purchase of one transfer tractor. This transfer tractor will be used primarily at the North Area Recovery Station to transfer waste material from NARS to Kiefer Landfill.

North Area Recovery Station – Transfer Tractor

Estimated Project Costs	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Construction Costs	0	0	0	0	0	0	0
Project Management/ Design (In-House)	0	0	0	0	0	0	0
Project Management/ Design (Consultant)	0	0	0	0	0	0	0
Construction Fees and Services	0	0	0	0	0	0	0
Right-of-way/Land Acquisition	0	0	0	0	0	0	0
Purchase Cost (Equip/Vehicle)	0	177,170	0	0	0	0	177,170
Other	0	0	0	0	0	0	0
TOTAL	**0**	**177,170**	**0**	**0**	**0**	**0**	**177,170**

Funding Sources	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Solid Waste Enterprise Fund							
Capital Outlay	0	177,170	0	0	0	0	177,170
TOTAL	**0**	**177,170**	**0**	**0**	**0**	**0**	**177,170**

Project Analysis:

Analysis Done	Analysis Results
Operating budget impact analyzed	This project will result in a decrease in the operating budget due to less maintenance for new equipment.

North Area Recovery Station – Transfer Trailer (5)

4450 Roseville Road, North Highlands, 95660 Project #17

Department: Waste Management and Recycling

Estimated Project Cost: $408,975

Expected Completion Date: 2016

Funding Sources: Solid Waste Enterprise Fund Capital Outlay

Project Description:
This project is for the purchase of five transfer trailers. These trailers will be used primarily at the North Area Recovery Station to transfer waste material from NARS to Kiefer Landfill.

North Area Recovery Station – Transfer Trailer (5)

Estimated Project Costs	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Construction Costs	0	0	0	0	0	0	0
Project Management/ Design (In-House)	0	0	0	0	0	0	0
Project Management/ Design (Consultant)	0	0	0	0	0	0	0
Construction Fees and Services	0	0	0	0	0	0	0
Right-of-way/Land Acquisition	0	0	0	0	0	0	0
Purchase Cost (Equip/Vehicle)	0	408,975	0	0	0	0	408,975
Other	0	0	0	0	0	0	0
TOTAL	**0**	**408,975**	**0**	**0**	**0**	**0**	**408,975**

Funding Sources	Prior Years Expenses	Fiscal Year 2016-17 Budget	Fiscal Year 2017-18 Budget	Fiscal Year 2018-19 Budget	Fiscal Year 2019-20 Budget	Fiscal Year 2020-21 Budget	Total
Solid Waste Enterprise Fund							
Capital Outlay	0	408,975	0	0	0	0	408,975
TOTAL	**0**	**408,975**	**0**	**0**	**0**	**0**	**408,975**

Project Analysis:

Analysis Done	Analysis Results
Operating budget impact analyzed	This project will result in a decrease in the operating budget due to less maintenance for new equipment.