

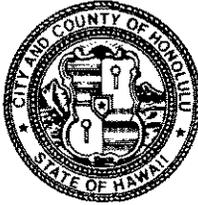
DEPARTMENT OF ENVIRONMENTAL SERVICES  
**CITY AND COUNTY OF HONOLULU**

1000 ULUOHIA STREET, SUITE 308, KAPOLEI, HAWAII 96707  
TELEPHONE: (808) 768-3486 • FAX: (808) 768-3487 • WEBSITE: <http://envhonolulu.org>

CITY CLERK  
HONOLULU, HAWAII

APR 28 8 53 AM '09

MUFI HANNEMANN  
MAYOR



April 27, 2009

TIMOTHY E. STEINBERGER, P.E.  
DIRECTOR

RECEIVED  
MANUEL S. LANUEVO, P.E., LEED AP  
DEPUTY DIRECTOR

ROSS S. TANIMOTO, P.E.  
DEPUTY DIRECTOR

IN REPLY REFER TO:  
WAS 09-108

RECEIVED  
CITY COUNCIL  
HONOLULU, HAWAII  
APR 27 P 2:51

The Honorable Nestor Garcia, Chair  
and Members of the Budget Committee  
Honolulu City Council  
530 South King Street, Room 202  
Honolulu, Hawaii 96813

Dear Chair Garcia and Councilmembers:

Subject: Budget Communication No. 6  
Council Budget Hearing Questions

This is in response to Budget Committee questions of April 1, 2009, regarding the Fiscal Year 2010 Budget for the Department of Environmental Services.

**Question 12.a): If we spend \$10,000,000 to ship our waste off-island, are there any offset savings at the Landfill or HPower for reduction of waste?**

Answer: If a contract is awarded and 100,000 tons of refuse is shipped, this tonnage would come primarily by diverting tonnage usually disposed of at Waimanalo Gulch Sanitary Landfill (WGSLF). By shipping 100,000 tons, there would be an offset of \$1,810,000 in the operating fee budgeted for WGSLF based on 100,000 tons at \$18.10 per ton. At this time, we have not reflected this savings in the budget since a shipping contract has yet to be awarded and a start-of-service date set. When comparing the cost of shipping to landfilling, we estimate that shipping will cost the City approximately \$6,900,000 more than landfilling. See the attached "Cost of shipping" spreadsheet, Exhibit A, for a detailed cost analysis.

**Question 12.b): 2005063 Kapa'a/Kalaheo Landfill Gas Flare System \$700,000**

- Is there a reason we aren't using the methane gas generated at these two closed landfills?
- What happened to the Kapa'a Energy Partners contract?

Answer: In 2002, Kapaa Generating Partners (KGP), the City's contractor who was converting methane gas into electricity suffered a major turbine failure. After the failure, and after 14 years of successful operations, KGP requested that their contract be cancelled as repairing the turbine was not cost effective based on the expected quantity and quality of future gas flows. As part of the Department's new flare installation project for Kapaa/Kalaheo in FY2010, we will be able to

obtain updated gas flow and quality data to assess the possibility of installing a new gas recovery project using a "small engine" and compatible with the remaining methane available.

**Question 12.c): 2010046 Oahu Secondary Landfill Site Selection Study \$500,000**

° **Why is the Leeward side deleted from consideration?**

Answer: The Leeward side is excluded from the "Oahu Secondary Landfill - Site Selection Study" because the existing Waimanalo Gulch Sanitary Landfill (WGSLF) is the only location on the Leeward side which is easily accessible and all other locations on the Leeward side have been fully studied. In keeping with the Integrated Solid Waste Management Plan, this study will assess future landfill locations in areas other than the Leeward area.

° **What is the timeline for the development of an alternative landfill?**

Answer: As indicated in the Integrated Solid Waste Management Plan, under ideal conditions a new landfill can take from 3 to 5 years to develop. Under less than ideal conditions, the process can take more than 5 years.

° **Who will be on the landfill advisory committee?**

Answer: The landfill advisory committee will be selected by the Administration and will include a broad cross section of individuals who represent the demographics of the C&C of Honolulu.

**Question 12.d): 2003134 Solid Waste to Energy Facility \$142,853,000**

° **Please provide a breakdown of the cost elements that make up this year's \$142M as well as next year's \$142M projected costs.**

Answer: The award amount for the design/build contract for the H-Power expansion is \$302,760,000. The budget plan is to fund this contract over three fiscal years, FY2009, FY2010, and FY2011. The construction phase money in the FY2010 and FY2011 budgets, a total of \$282.7 million, includes site work, site utilities, structures, boilers, reactors, turbine generator, scrubbers, bag houses, all other equipment and installation, testing, and project management.

**Question 12.e): 1972065 Makiki Heights and Puowaina Drive Sewers, ID**

° **What is the status of outreach to the community on this pending improvement District?**

Answer: Outreach to the community has not started. It will be included in the planning phase.

° **Is this on DHHL land?**

Answer: No, our records indicate DHHL land is outside of this Improvement District. Attached is a map (Exhibit B) showing location of the Improvement District and DHHL lands.

° **The homeowner share reflects \$1.4M – is DHHL paying this share?**

Answer: The homeowners' share has been estimated using current rates. Our records indicate there are no DHHL lands in this Improvement District.

**Question 12.f): 2006053 Moilili-Kapahulu Sewer Rehab/Recon \$5M in construction**

° **Identify the specific area covered by this project, by street or TMK.**

Answer: The area covered by the project is along Date Street, from Pumehana Street to approximately Lukepane Street. See Exhibit C for the site map.

**Question 12.g): 2008077 Old Sewer Tunnel Rehabilitation \$400K in Design (Council District V)**

° **Identify the specific area covered by this project, by street or TMK.**

Answer: The area covered by the project includes the following listed streets. However, in general, the tunnel is deep and therefore the work along the ground surface will only occur at the manholes. The exception is possibly along School Street, where some excavations may be needed when the project enters the construction phase. See Exhibit D for the site map.

School Street from Nuuanu Stream to Lusitana Street  
Lusitana Street from School Street to Kinau Street  
Kinau Street from Lusitana Street to Victoria Street  
Victoria Street from Kinau Street to Lunalilo Street  
Lunalilo Street from Victoria Street to Pensacola Street  
Penascola Street from Lunalilo Street to Wilder Avenue  
Wilder Avenue from Pensacola Street to Artesian Street  
Wilder Avenue through the Punahou Campus along Chamberlain to Nakiu Place  
Nakiu Place from Chamberlain to Metcalf Street  
Metcalf Street from Nakiu Place to just pass Hoonanea Street  
Back of homes fronting Hoonanea Street from Metcalf Street to Dole Street  
Dole Street from just past Hoonanea Street to Saint Louis Drive  
Through Saint Louis Campus from Saint Louis Drive to Keanu Street  
Keanu Street from Palolo Stream to 17th Avenue  
Through private properties from 17th Avenue to Kilauea Avenue

**Question 12.h): 2001124 Project Management for Wastewater Projects \$7,135,000**

° **Please provide a detailed breakdown of these costs.**

Answer: These CIP Cash Funds are for DDC Wastewater Division salaries and expenses, for engineers and staff working on wastewater CIP projects. See attached Exhibit E, showing the breakdown of the costs.

**Question 12.i): 2007073 Wastewater Program Management \$7M**

° Please provide a detailed breakdown of these costs.

Answer: This project is to provide consultant assistance in managing the very large wastewater capital program through the on-going peak workload. This avoids increasing permanent staffing to cover peak needs. Activities may include out-sourcing contracts for assistance in planning, programming, and managing implementation of wastewater projects. This would include staff augmentation contracts for ENV and DDC wastewater programs. Enhanced programs are being implemented for gravity sewer assessments and rehabilitation, force main assessments and upgrades, and pump station assessments and upgrades, which require additional resources to manage.

**Question 12.j): 2000071 Sewer Mainline and Lateral Projects \$15.3M**

° Why is this year's appropriation so much larger than last year's?

Answer: We are using Indefinite Delivery/Indefinite Quantity (IDIQ) contracts for sewer rehabilitation construction, which allows us to pull some work out of planning phase, skip the design phase, and issue work orders to contractors to do the work on a unit price basis. This results in getting the work done faster and at a much reduced price. Approximately \$6.5 million worth of work was completed in calendar year 2008 by IDIQ contracts. We plan to expand use of this process to more quickly address sewer rehabilitation needs, and believe the budget in FY2010 is appropriate. The \$15.3 million includes funds for projects that get moved to the IDIQ program, and the Small Diameter Sewer Rehabilitation Program projects, which are being done by the normal design and construction process. A preliminary list of anticipated projects has been submitted for this item.

° Can all this work be completed in one year?

Answer: We anticipate that there will be sufficient projects during the year to encumber the \$15.3 million.

° Can any projects be deferred until next year?

Answer: The sewer rehabilitation program is intended to actively address problem areas in the sewer collection system and to meet mandated requirements. Deferring projects could result in system failures and increased overall costs.

**Question 12.k): 2001062 Wastewater Treatment Plant, Pump Station, and Force Main Projects \$16.1M**

° Why is this year's appropriation so much larger than last year's?

Answer: In addition to the list of anticipated projects submitted for this item, these funds are needed for projects that may come out of condition assessments being mandated by Federal and State requirements. The condition assessments for force mains and pump stations may reveal conditions that are appropriate to correct using capital funds. Conditions that are found may not qualify as an emergency but should be addressed before funding in the next budget

cycle would be available. These funds provide an appropriate source for needs that arise during the year as a result of on-going assessment work.

° **Can all this work be completed in one year?**

Answer: Considering the increased assessment work, it is likely that sufficient needs will be identified during the year to encumber the \$16.1 million.

° **Can any projects be deferred until next year?**

Answer: Deferring work could have negative impacts to facilities, with resulting higher costs to remediate, and result in failure to meet mandated requirements. ENV does not recommend deferring work.

**Question 12.l): Please provide a spreadsheet listing all of the department's projects with a list of the applicable consent decree or agreement mandating the projects, including those required under the Infiltration/Inflow Plan.**

Answer: See attached Exhibit F for information regarding projects funded in FY2010.

**Question 12.m): With regard to the proposed increase in electricity costs for the department, is this due to additional energy needed to meet the required UV disinfection mandated by the EPA? If so, is the increase attributable to an increase in consumption or higher electricity rates from HECO?**

Answer: The electricity budget includes the cost of UV disinfection mandated by the EPA, which is not a new cost for FY2010. The increased electricity cost is due to an increase in consumption, in part due to the need to use additional UV lamps at the Sand Island Wastewater Treatment Plant to ensure meeting the permit requirements.

**Question 12.n): Please provide a listing of the ages of the refuse vehicles in use and whether the proposed purchases in FY2010 are part of a larger replacement cycle for vehicles as established by the department.**

Answer: On a yearly basis, the Department and the Refuse Division look at what the year's priorities are, assess the existing vehicle fleet, and with feedback from AES, determine which vehicles need replacing. There are often vehicles in the fleet which are well past their service life, however, replacement was deferred due to other equipment or programs having a higher priority. The listing of the refuse vehicle fleet is attached and shows the model year and the fiscal year projected for replacement. See attached Exhibit G.

**Question 12.o): Please provide an updated status and summary overview of the Stormwater Division pilot project for condo areas in Salt Lake.**

Answer: The initial planning report for the Salt Lake Storm Drainage Best Management Practices (BMP's) project has been completed. The resulting storm drain filter project is scheduled for bid opening in May 2009, using FY08 construction funds. The pilot study for the

next phase of the project is to be initiated using funds from FY09 and FY10 CIP budgets, pending approvals. Construction work would be scheduled to follow. We are also conducting an on-going Salt Lake Street Sweeping Study using operating funds. Field data collection is expected to be completed during the next few months, and a draft report is anticipated to be completed by the end of calendar year 2009.

**Question 12.p): With regard to Mapunapuna, please provide an update of the City plans to address flooding in the industrial area.**

Answer: We have asked the Department of Design and Construction to provide a response, as flooding and storm water capacity issues are not included in our department's functional areas.

If you have any questions, please call me at 768-3486 or Manuel Lanuevo, Deputy Director, at 768-3485.

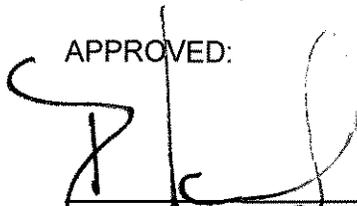
Sincerely,



Timothy E. Steinberger, P.E.  
Director

Attachments (Exhibits A-G)

APPROVED:

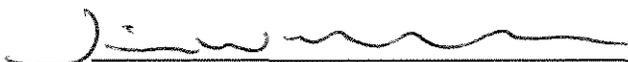


4/22/09

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Rix Maurer III, Director                      Date  
Department of Budget and Fiscal Services

APPROVED:



4/27/09

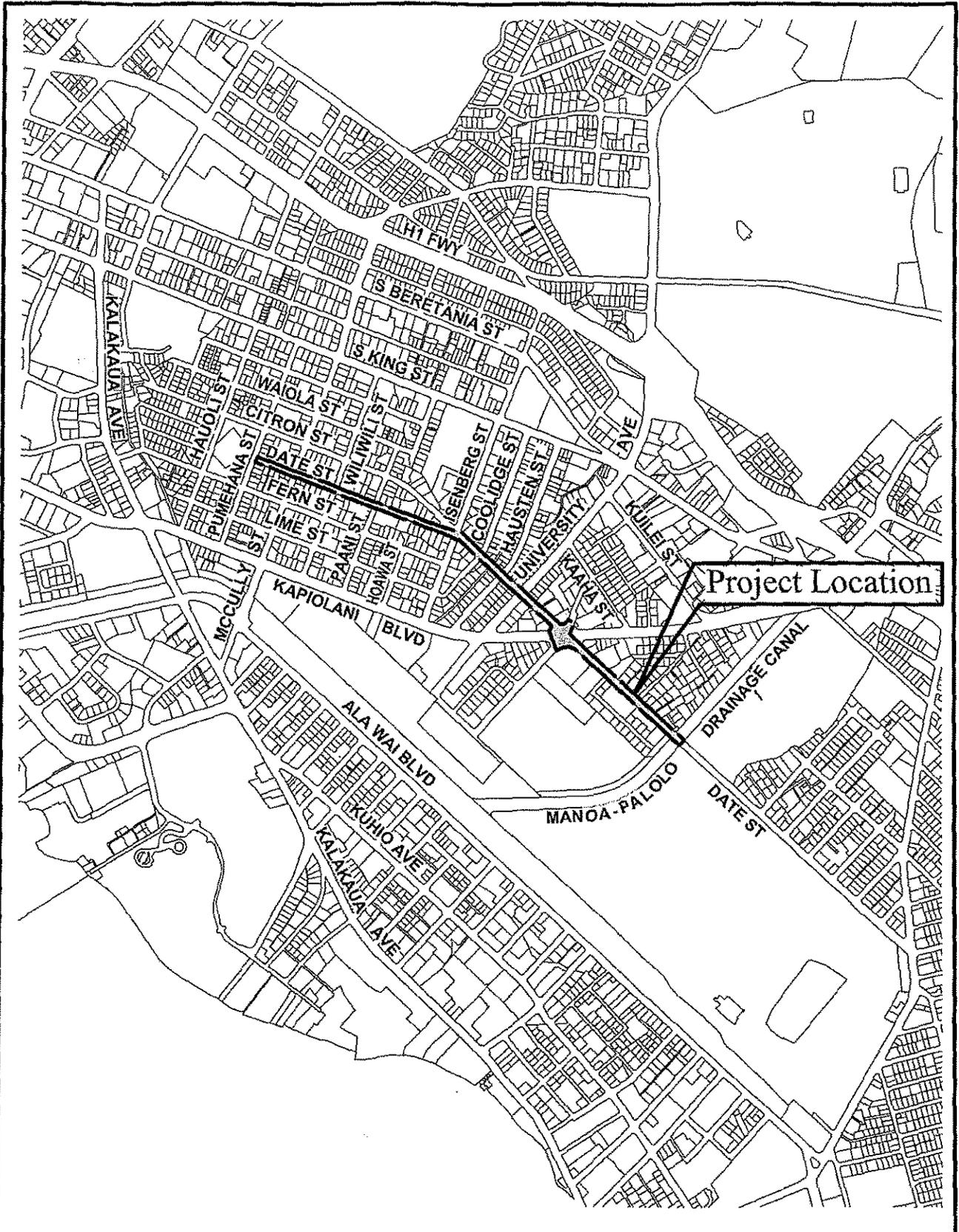
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Kirk W. Caldwell                              Date  
Managing Director

<b>Revenue and Expense Comparison of Shipping vs. Landfilling</b>				
<b>REVENUE</b>	<b>Tonnage</b>	<b>*\$/Ton</b>	<b>Revenue</b>	
Shipper	100,000	\$ 40	\$ 4,000,000	
Landfill	100,000	\$ 40	\$ 4,000,000	
			\$ -	<--Revenue will remain unchanged whether 100,000 tons is shipped or landfilled.
<p>* ~\$40/Ton in revenue will be the same whether collected at the SHIPPER or the LANDFILL. This revenue is based on a mix of both commercial and City waste being shipped. (\$81/ton for commercial; \$45.35/ton for City Depts.; \$0/ton for City Refuse Div.)</p>				
<b>EXPENSE</b>	<b>Tonnage</b>	<b>**\$/Ton</b>	<b>Expense</b>	
Shipper	100,000	\$ (100)	\$ (10,000,000)	
Landfill	100,000	\$ (31)	\$ (3,100,000)	
			\$ (6,900,000.00)	<--This is the additional expense of shipping 100,000 tons, versus landfilling.
<p>**~\$100/Ton cost at the SHIPPER is conservative as it does NOT include the \$500,000 budgeted in the FY09 CIP for a City installed scale facility. Also does NOT include salary and fringe costs for 2 new City scale attendants.</p>				
<p>** ~\$31/Ton cost at the LANDFILL includes operating cost and cost to develop the landfill space. Cost for existing City scale attendants are not included as this is an existing operation and will not change should refuse be shipped off-island.</p>				

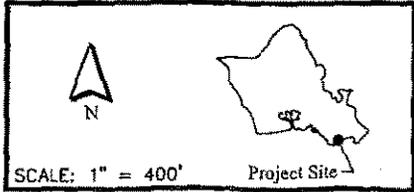


**EXHIBIT B**



PREFIX: C:\DDC06-01\_Moi-Kapo\_Report\Exhibits\  
 FILE: Location\_map.dwg  
 BEGIN: 4/5/2001  
 SCALE: 1"=1

**City & County  
 of Honolulu**  
 Department of  
 Design & Construction



**FIGURE 1.1  
 LOCATION MAP**  
 Moiliili-Kapahulu Sewer  
 Rehabilitation / Reconstruction  
 Moiliili-Kapahulu, Honolulu District  
Wastewater Division Date: January 2004





c:\file\y03bud04ddcwwa.xls										
DEPARTMENT OF DESIGN AND CONSTRUCTION										
Fiscal Year 2010 Budget										
Sewer Operating Funds and Sewer Capital										
CIP Phase/Activity	Salaries*	Current Expenses	Equipment	Subtotal	FICA	Health Fund	Retirement	Total Fringes	Salaries, Fringes CE, Equip	Total
<b>Capital Budget (DDC Project Management for WW Projects-#2001124)</b>										
<b>Planning Phase</b>										
Administration	102,622			102,622				-		
WW Planning	936,168			936,168				-		
Land Survey	161,363			161,363				-		
<b>Planning Total</b>	<b>1,200,153</b>			<b>1,200,153</b>	<b>22.87%</b>	<b>77,049</b>	<b>196,608</b>	<b>158,084</b>	<b>431,741</b>	<b>1,631,894</b>
<b>Design Phase</b>										
WW Design/Engr	2,479,959			2,479,959	47.26%	159,212	406,265	326,659	892,137	3,372,096
<b>Inspection Phase</b>										
WW Construction	1,567,032			1,567,032	29.86%	100,603	256,710	206,409	563,722	2,130,754
<b>Land Phase</b>										
Land Division (Included in Planning)	-			-		-	-	-	-	-
<b>Equipment Phase</b>										
	-			-						-
<b>Other Phase</b>										
	-			-						-
<b>Sewer Capital (90%)</b>	<b>5,247,144</b>			<b>5,247,144</b>		<b>336,864</b>	<b>859,584</b>	<b>691,152</b>	<b>1,887,600</b>	<b>7,134,744</b>

SEWAGE COLLECTION AND DISPOSAL		ENVIRONMENTAL SERVICES
FY2010 CIP Budget, per Bill 16		
<b>Legend:</b>		
I/I Plan: the "Final Sewer Infiltration/Inflow Plan", 1999, (I/I Plan), required by the 1995 Consent Decree		
Small Diam. Sewer Rehab. Program: The I/I Plan includes a requirement for a Small Diameter Sewer Rehabilitation Program		
Sewer Cond. Assess. Program: The I/I Plan includes a requirement for a Sewer Condition Assessment Program		
Wet Weather I/I Assess. Program: The I/I Plan includes a requirement for a Wet Weather I/I Assessment Program		
2004 DOH FM Order: Notice of Violation and Order from State DOH regarding the City's force mains (FM)		
2007 Stipulated Order: Consent Order with EPA and DOH regarding 6 critical FM's and the Beachwalk Wastewater Pump Station		
PROJECT NUMBER	PROJECTS	EPA/DOH REQUIREMENT
2008063	AHUIMANU WASTEWATER PRELIMINARY TREATMENT FACILITY FORCE MAIN	2004 DOH FM Order
2006052	AIRPORT SEWER REHABILITATION/RECONSTRUCTION	I/I Plan project
2005071	ALA MOANA BOULEVARD/AUAHI STREET SEWER REHABILITATION	includes three I/I Plan projects
2010050	ALA MOANA WASTEWATER PUMP STATION FORCE MAIN NO. 2 REHABILITATION	2007 Stipulated Order project
2006046	ALA MOANA WASTEWATER PUMP STATION FORCE MAIN NO. 3	I/I Plan project and 2007 Stipulated Order project
1995811	BEACHWALK WASTEWATER PUMP STATION FORCE MAIN	2007 Stipulated Order project
2007065	CENTRAL OAHU WASTEWATER FACILITIES AND EFFLUENT REUSE	DOH's 2002 R-1 criteria
2008070	CHINATOWN SEWER REHABILITATION	I/I Plan, Small Diam. Sewer Rehab. Program
2002044	ENCHANTED LAKE WASTEWATER PUMP STATION UPGRADE	I/I Plan project
2010062	HELE STREET SEWER RELIEF/REHABILITATION, KAILUA	I/I Plan project
2010069	HONOULIULI WASTEWATER BASIN ODOR CONTROL	to ensure compliance with DOH air permit
2009110	HONOULIULI WASTEWATER TREATMENT PLANT AND SEWER BASIN FACILITIES	includes projects from the I/I Plan
2010053	HONOULIULI WASTEWATER TREATMENT PLANT OUTFALL IMPROVEMENTS/REHABILITATION	to ensure reliability of critical infrastructure
2000067	HONOULIULI WASTEWATER TREATMENT PLANT SOLIDS HANDLING SYSTEM AND IMPROVEMENTS	energy recovery project, not mandated
2007066	IWILEI/KALIHI KAI SEWER REHABILITATION/RECONSTRUCTION	includes projects from the I/I Plan
2009109	KAILUA WASTEWATER TREATMENT PLANT AND SEWER BASIN FACILITIES	includes projects from the I/I Plan, and 2007 Stipulated Order
2010048	KAILUA WASTEWATER TREATMENT PLANT OUTFALL IMPROVEMENTS/REHABILITATION	to ensure reliability of critical infrastructure
2000081	KAILUA WASTEWATER TREATMENT PLANT - SOLID DEWATERING SYSTEM	to ensure compliance with DOH air permit
2010060	KAMEHAMEHA HIGHWAY WASTEWATER PUMP STATION UPGRADE, MAPUNAPUNA	I/I Plan project
2010068	KANEOHE/KAILUA FORCE MAIN NO. 1 REHABILITATION	2007 Stipulated Order project
2006051	KANEOHE/KAILUA FORCE MAIN NO. 2	2007 Stipulated Order project
1996805	KULIOUOU SEWER REHABILITATION AND WASTEWATER PUMP STATION MODIFICATION	I/I Plan project
2006056	LEEWARD AREA SEWER AND MANHOLE REHABILITATION	includes two I/I Plan projects
2006058	MAKAHA INTERCEPTOR SEWER REHABILITATION/REPLACEMENT	I/I Plan project
2008074	MANOA SEWER RELIEF/REHABILITATION	I/I Plan project, and Small Diam. Sewer Rehab. Program

EXHIBIT F (1 OF 2)

SEWAGE COLLECTION AND DISPOSAL FY2010 CIP Budget, per Bill 16		ENVIRONMENTAL SERVICES
<b>Legend:</b>		
I/I Plan: the "Final Sewer Infiltration/Inflow Plan", 1999, (I/I Plan), required by the 1995 Consent Decree		
Small Diam. Sewer Rehab. Program: The I/I Plan includes a requirement for a Small Diameter Sewer Rehabilitation Program		
Sewer Cond. Assess. Program: The I/I Plan includes a requirement for a Sewer Condition Assessment Program		
Wet Weather I/I Assess. Program: The I/I Plan includes a requirement for a Wet Weather I/I Assessment Program		
2004 DOH FM Order: Notice of Violation and Order from State DOH regarding the City's force mains (FM)		
2007 Stipulated Order: Consent Order with EPA and DOH regarding 6 critical FM's and the Beachwalk Wastewater Pump Station		
PROJECT NUMBER	PROJECTS	EPA/DOH REQUIREMENT
2006053	MOILIILI-KAPAHULU SEWER REHABILITATION/RECONSTRUCTION	I/I Plan project
2008077	OLD SEWER TUNNEL REHABILITATION	includes an I/I Plan project
1997812	PACIFIC PALISADES DIVERSION SEWER LINE	I/I Plan project
2008078	PALOLO VALLEY SEWER REHABILITATION	I/I Plan projects, and Small Diam. Sewer Rehab. Program
2001124	PROJECT MANAGEMENT FOR WASTEWATER PROJECTS	
2010049	SAND ISLAND WASTEWATER BASIN ODOR CONTROL	to ensure compliance with DOH air permit
2009112	SAND ISLAND WASTEWATER TREATMENT PLANT AND SEWER BASIN FACILITIES	includes projects from the I/I Plan, and 2007 Stipulated Order
2007068	SEWER CONDITION ASSESSMENT PROGRAM	I/I Plan, Sewer Cond. Assess. Program
2008088	SEWER I/I ASSESSMENT & REHABILITATION PROGRAM	I/I Plan, Wet Weather I/I Assess. Program
2000071	SEWER MAINLINE AND LATERAL PROJECTS	I/I Plan projects, and Small Diam. Sewer Rehab. Program
2008079	UWALU WASTEWATER PUMP STATION UPGRADE	I/I Plan project
2010047	WAIANAE WASTEWATER FACILITIES PLAN	State statute requirement for wastewater facilities plan
2007070	WAIU AREA SEWER REHABILITATION/RECONSTRUCTION	I/I Plan project
2008080	WAIKALUA WASTEWATER PUMP STATION UPGRADE	I/I Plan project
2006055	WAIKAPOKI WASTEWATER PUMP STATION UPGRADE	I/I Plan project
2001006	WAIKIKI SEWER REHABILITATION/RECONSTRUCTION	I/I Plan project, and Small Diam. Sewer Rehab. Program
2007071	WAIPIO WASTEWATER PUMP STATION UPGRADE	I/I Plan project
2000038	WASTEWATER EQUIPMENT	to ensure reliability of wastewater service
1998806	WASTEWATER FACILITIES REPLACEMENT RESERVE	former federal grant program requires an emergency reserve
2003151	WASTEWATER PLANNING AND PROGRAMMING	
2007073	WASTEWATER PROGRAM MANAGEMENT	
2001062	WASTEWATER TREATMENT PLANT, PUMP STATION, AND FORCE MAIN PROJECTS	includes work resulting from 2007 Stipulated Order, and 2004 DOH FM Order.

EXHIBIT F (2 OF 2)

REFUSE DIVISION - VEHICLE FLEET SCHEDULE														
TYPE	FLEET #	YEAR	SERV. YRS.	REPL. YR.	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18
SEDAN	10711	2002	10	2012				R						
SEDAN	10716	2003	10	2013					R					
SEDAN	10819	2008	10	2018										R
STATION WAGON	11293	2001	10	2011			R							
STATION WAGON	11294	2001	10	2011			R							
PICKUP TRUCK	14655	1991	10	2001										
PICKUP TRUCK	14695	1992	10	2002										
PICKUP TRUCK	14789	1998	10	2008										
PICKUP TRUCK	14844	2001	10	2011			R							
PICKUP TRUCK	14845	2001	10	2011			R							
PICKUP TRUCK	14846	2001	10	2011			R							
PICKUP TRUCK	14847	2001	10	2011			R							
PICKUP TRUCK	14848	2001	10	2011			R							
PICKUP TRUCK	14850	2001	10	2011			R							
PICKUP TRUCK	14851	2001	10	2011			R							
PICKUP TRUCK	14890	2002	10	2012				R						
PICKUP TRUCK	14892	2003	10	2013					R					
PICKUP TRUCK	14911	2004	10	2014						R				
PICKUP TRUCK	14912	2004	10	2014						R				
PICKUP TRUCK	14913	2004	10	2014						R				
PICKUP TRUCK	14914	2004	10	2014						R				
PICKUP TRUCK	14915	2004	10	2014						R				
PICKUP TRUCK	14916	2004	10	2014						R				
PICKUP TRUCK	14917	2004	10	2014						R				
PICKUP TRUCK	14918	2004	10	2014						R				
PICKUP TRUCK	14919	2004	10	2014						R				
PICKUP TRUCK	14952	2006	10	2016								R		
PICKUP TRUCK	14953	2006	10	2016								R		
PICKUP TRUCK	14954	2006	10	2016								R		
PICKUP TRUCK	14955	2006	10	2016								R		
PICKUP TRUCK	14956	2006	10	2016								R		
PICKUP TRUCK	14982	2008	10	2018										R
PICKUP TRUCK	14983	2008	10	2018										R
PICKUP TRUCK	14987	2008	10	2018										R
PICKUP TRUCK	14988	2008	10	2018										R
PICKUP TRUCK	14989	2008	10	2018										R
PICKUP TRUCK	14990	2008	10	2018										R
PICKUP TRUCK	14991	2008	10	2018										R
PICKUP TRUCK	14992	2008	10	2018										R
PICKUP TRUCK	14994	2008	10	2018										R
6 MAN CAB PICKUP TRUCK	15392	2008	10	2018										R

REFUSE DIVISION - VEHICLE FLEET SCHEDULE														
TYPE	FLEET #	YEAR	SERV. YRS.	REPL. YR.	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18
VAN	18285	1998	10	2008										
VAN	18330	2002	10	2012	FY09 Appvd.			R						
VAN	18338	2003	10	2013					R					
DUMP TRUCK (ROLLOFF)	19417	1991	12	2003		FY10 Req.								
DUMP TRUCK (ROLLOFF)	19418	1991	12	2003		FY10 Req.								
DUMP TRUCK (ROLLOFF)	19420	1991	12	2003		FY10 Req.								
FLATBED TRUCK	20165	1994	12	2006		FY10 Req.								
FLATBED TRUCK	20169	1996	12	2008		FY10 Req.								
FLATBED TRUCK	20170	1996	12	2008		FY10 Req.								
FLATBED TRUCK	20171	1996	12	2008										
FLATBED TRUCK	20180	1999	12	2011			R							
FLATBED TRUCK	20195	2002	12	2014					R					
FLATBED TRUCK	20216	2005	12	2017									R	
FLATBED TRUCK	20218	2007	12	2019										
FLATBED TRUCK	20219	2007	12	2019										
FLATBED TRUCK	20222	2005	12	2017									R	
FLATBED TRUCK	20223	2008	12	2020										
FLATBED TRUCK	20224	2008	12	2020										
BUCKET TRUCK	22113	1988	12	2000		FY10 Req.								
FRONT LOADER REFUSE TRUCK	26043	1999	8	2007	FY09 Appvd.									
FRONT LOADER REFUSE TRUCK	26044	2000	8	2008		FY10 Req.								
FRONT LOADER REFUSE TRUCK	26045	2000	8	2008	FY09 Appvd.									
FRONT LOADER REFUSE TRUCK	26046	2000	8	2008	FY09 Appvd.									
FRONT LOADER REFUSE TRUCK	26047	2002	8	2010		FY10 Req.								
FRONT LOADER REFUSE TRUCK	26048	2002	8	2010		FY10 Req.								
FRONT LOADER REFUSE TRUCK	26049	2007	8	2015							R			
FRONT LOADER REFUSE TRUCK	26050	2007	8	2015							R			
FRONT LOADER REFUSE TRUCK	26051	2007	8	2015							R			
SIDE LOADER REFUSE TRUCK	27053	1998	7	2005										
SIDE LOADER REFUSE TRUCK	27067	1999	7	2006	FY09 Appvd.									
SIDE LOADER REFUSE TRUCK	27072	1999	7	2006	FY09 Appvd.									
SIDE LOADER REFUSE TRUCK	27073	2000	7	2007	FY09 Appvd.									
SIDE LOADER REFUSE TRUCK	27075	2000	7	2007		FY10 Req.								
SIDE LOADER REFUSE TRUCK	27076	2000	7	2007		FY10 Req.								
SIDE LOADER REFUSE TRUCK	27078	2000	7	2007		FY10 Req.								
SIDE LOADER REFUSE TRUCK	27079	2000	7	2007		FY10 Req.								
SIDE LOADER REFUSE TRUCK	27081	2000	7	2007		FY10 Req.								
SIDE LOADER REFUSE TRUCK	27082	2000	7	2007		FY10 Req.								
SIDE LOADER REFUSE TRUCK	27083	2000	7	2007		FY10 Req.								
SIDE LOADER REFUSE TRUCK	27085	2000	7	2007		FY10 Req.								
SIDE LOADER REFUSE TRUCK	27087	2001	7	2008		FY10 Req.								

REFUSE DIVISION - VEHICLE FLEET SCHEDULE														
TYPE	FLEET #	YEAR	SERV. YRS.	REPL. YR.	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18
SIDE LOADER REFUSE TRUCK	27090	2002	7	2009	R	FY10 Req.								
SIDE LOADER REFUSE TRUCK	27092	2002	7	2009	R	FY10 Req.								
SIDE LOADER REFUSE TRUCK	27093	2001	7	2008		FY10 Req.								
SIDE LOADER REFUSE TRUCK	27094	2001	7	2008		FY10 Req.								
SIDE LOADER REFUSE TRUCK	27095	2001	7	2008		FY10 Req.								
SIDE LOADER REFUSE TRUCK	27096	2001	7	2008		FY10 Req.								
SIDE LOADER REFUSE TRUCK	27097	2001	7	2008		FY10 Req.								
SIDE LOADER REFUSE TRUCK	27098	2001	7	2008		FY10 Req.								
SIDE LOADER REFUSE TRUCK	27099	2003	7	2010		FY10 Req.								
SIDE LOADER REFUSE TRUCK	27100	2003	7	2010		FY10 Req.								
SIDE LOADER REFUSE TRUCK	27101	2003	7	2010		R								
SIDE LOADER REFUSE TRUCK	27102	2003	7	2010		R								
SIDE LOADER REFUSE TRUCK	27103	2003	7	2010		R								
SIDE LOADER REFUSE TRUCK	27104	2003	7	2010		R								
SIDE LOADER REFUSE TRUCK	27105	2003	7	2010		R								
SIDE LOADER REFUSE TRUCK	27106	2003	7	2010		R								
SIDE LOADER REFUSE TRUCK	27107	2003	7	2010		R								
SIDE LOADER REFUSE TRUCK	27108	2003	7	2010		R								
SIDE LOADER REFUSE TRUCK	27109	2003	7	2010		R								
SIDE LOADER REFUSE TRUCK	27110	2004	7	2011			R							
SIDE LOADER REFUSE TRUCK	27111	2004	7	2011			R							
SIDE LOADER REFUSE TRUCK	27112	2004	7	2011			R							
SIDE LOADER REFUSE TRUCK	27113	2004	7	2011			R							
SIDE LOADER REFUSE TRUCK	27114	2004	7	2011			R							
SIDE LOADER REFUSE TRUCK	27115	2004	7	2011			R							
SIDE LOADER REFUSE TRUCK	27116	2004	7	2011			R							
SIDE LOADER REFUSE TRUCK	27117	2004	7	2011			R							
SIDE LOADER REFUSE TRUCK	27118	2004	7	2011			R							
SIDE LOADER REFUSE TRUCK	27119	2004	7	2011			R							
SIDE LOADER REFUSE TRUCK	27120	2004	7	2011			R							
SIDE LOADER REFUSE TRUCK	27121	2004	7	2011			R							
SIDE LOADER REFUSE TRUCK	27122	2004	7	2011			R							
SIDE LOADER REFUSE TRUCK	27123	2004	7	2011			R							
SIDE LOADER REFUSE TRUCK	27124	2005	7	2012				R						
SIDE LOADER REFUSE TRUCK	27125	2005	7	2012				R						
SIDE LOADER REFUSE TRUCK	27126	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27127	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27128	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27129	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27130	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27131	2007	7	2014						R				

REFUSE DIVISION - VEHICLE FLEET SCHEDULE					FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18
TYPE	FLEET #	YEAR	SERV. YRS.	REPL. YR.										
SIDE LOADER REFUSE TRUCK	27132	2006	7	2013					R					
SIDE LOADER REFUSE TRUCK	27133	2006	7	2013					R					
SIDE LOADER REFUSE TRUCK	27134	2006	7	2013					R					
SIDE LOADER REFUSE TRUCK	27135	2006	7	2013					R					
SIDE LOADER REFUSE TRUCK	27136	2006	7	2013					R					
SIDE LOADER REFUSE TRUCK	27137	2006	7	2013					R					
SIDE LOADER REFUSE TRUCK	27138	2006	7	2013					R					
SIDE LOADER REFUSE TRUCK	27140	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27141	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27142	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27143	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27144	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27145	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27146	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27147	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27148	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27149	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27150	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27151	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27152	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27153	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27154	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27155	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27156	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27157	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27158	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27159	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27160	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27161	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27162	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27163	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27164	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27165	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27166	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27167	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27168	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27169	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27170	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27171	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27172	2007	7	2014						R				
SIDE LOADER REFUSE TRUCK	27173	2007	7	2014						R				

REFUSE DIVISION - VEHICLE FLEET SCHEDULE														
TYPE	FLEET #	YEAR	SERV. YRS.	REPL. YR.	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18
SIDE LOADER REFUSE TRUCK	27180	2008	7	2015							R			
SIDE LOADER REFUSE TRUCK	27181	2008	7	2015							R			
SIDE LOADER REFUSE TRUCK	27182	2008	7	2015							R			
REAR LOADER REFUSE TRUCK	28368	1989	10	1999		FY10 Req.								
REAR LOADER REFUSE TRUCK	28384	1990	10	2000		FY10 Req.								
REAR LOADER REFUSE TRUCK	28385	1990	10	2000		FY10 Req.								
REAR LOADER REFUSE TRUCK	28406	1991	10	2001		FY10 Req.								
REAR LOADER REFUSE TRUCK	28407	1991	10	2001		FY10 Req.								
REAR LOADER REFUSE TRUCK	28408	1991	10	2001		FY10 Req.								
REAR LOADER REFUSE TRUCK	28410	1992	10	2002		FY10 Req.								
REAR LOADER REFUSE TRUCK	28427	1993	10	2003		FY10 Req.								
REAR LOADER REFUSE TRUCK	28430	1993	10	2003		FY10 Req.								
REAR LOADER REFUSE TRUCK	28439	1994	10	2004		FY10 Req.								
REAR LOADER REFUSE TRUCK	28441	1994	10	2004		FY10 Req.								
REAR LOADER REFUSE TRUCK	28442	1994	10	2004		FY10 Req.								
REAR LOADER REFUSE TRUCK	28454	2000	10	2010		FY10 Req.								
REAR LOADER REFUSE TRUCK	28455	2000	10	2010		R								
REAR LOADER REFUSE TRUCK	28456	2000	10	2010		R								
REAR LOADER REFUSE TRUCK	28457	1992	10	2002	FY09 Appvd.									
REAR LOADER REFUSE TRUCK	28458	2001	10	2011			R							
REAR LOADER REFUSE TRUCK	28459	2001	10	2011			R							
REAR LOADER REFUSE TRUCK	28460	2001	10	2011			R							
REAR LOADER REFUSE TRUCK	28461	2001	10	2011			R							
REAR LOADER REFUSE TRUCK	28462	2001	10	2011			R							
REAR LOADER REFUSE TRUCK	28463	2001	10	2011			R							
REAR LOADER REFUSE TRUCK	28464	2001	10	2011			R							
REAR LOADER REFUSE TRUCK	28465	2001	10	2011			R							
REAR LOADER REFUSE TRUCK	28474	2003	10	2013					R					
REAR LOADER REFUSE TRUCK	28475	2003	10	2013					R					
REAR LOADER REFUSE TRUCK	28476	2003	10	2013					R					
REAR LOADER REFUSE TRUCK	28477	2003	10	2013					R					
REAR LOADER REFUSE TRUCK	28478	2003	10	2013					R					
REAR LOADER REFUSE TRUCK	28479	2003	10	2013					R					
REAR LOADER REFUSE TRUCK	28480	2003	10	2013					R					
REAR LOADER REFUSE TRUCK	28481	2003	10	2013					R					
REAR LOADER REFUSE TRUCK	28482	2003	10	2013					R					
REAR LOADER REFUSE TRUCK	28483	2003	10	2013					R					
REAR LOADER REFUSE TRUCK	28484	2004	10	2014						R				
REAR LOADER REFUSE TRUCK	28485	2004	10	2014						R				
REAR LOADER REFUSE TRUCK	28486	2004	10	2014						R				
REAR LOADER REFUSE TRUCK	28487	2004	10	2014						R				

REFUSE DIVISION - VEHICLE FLEET SCHEDULE														
TYPE	FLEET #	YEAR	SERV. YRS.	REPL. YR.	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18
REAR LOADER REFUSE TRUCK	28488	2004	10	2014						R				
REAR LOADER REFUSE TRUCK	28489	2004	10	2014						R				
REAR LOADER REFUSE TRUCK	28490	2004	10	2014						R				
REAR LOADER REFUSE TRUCK	28491	2004	10	2014						R				
REAR LOADER REFUSE TRUCK	28492	2004	10	2014						R				
REAR LOADER REFUSE TRUCK	28493	2006	10	2016								R		
REAR LOADER REFUSE TRUCK	28494	2006	10	2016								R		
REAR LOADER REFUSE TRUCK	28495	2006	10	2016								R		
REAR LOADER REFUSE TRUCK	28496	2006	10	2016								R		
REAR LOADER REFUSE TRUCK	28497	2006	10	2016								R		
REAR LOADER REFUSE TRUCK	28498	2006	10	2016								R		
REAR LOADER REFUSE TRUCK	28499	2006	10	2016								R		
REAR LOADER REFUSE TRUCK	28500	2006	10	2016								R		
REAR LOADER REFUSE TRUCK	28501	2006	10	2016								R		
REAR LOADER REFUSE TRUCK	28502	2009	10	2019								R		
MISC. TANK TRUCK	32031	1999	10	2009	R									
CESSPOOL TRUCK	33120	1993	10	2003										
TRUCK TRACTOR	35062	1990	10	2000										
TRUCK TRACTOR	35072	1990	10	2000										
TRUCK TRACTOR	35074	1991	10	2001										
TRUCK TRACTOR	35075	1991	10	2001										
TRUCK TRACTOR	35084	1993	10	2003										
TRUCK TRACTOR	35085	1993	10	2003										
TRUCK TRACTOR	35086	1998	10	2008	FY09 Appvd.									
TRUCK TRACTOR	35087	1999	10	2009	FY09 Appvd.									
TRUCK TRACTOR	35088	1999	10	2009	FY09 Appvd.									
TRUCK TRACTOR	35089	1999	10	2009	FY09 Appvd.									
TRUCK TRACTOR	35090	1999	10	2009	FY09 Appvd.									
TRUCK TRACTOR	35091	1999	10	2009	FY09 Appvd.									
TRUCK TRACTOR	35093	2001	10	2011			R							
TRUCK TRACTOR	35094	2001	10	2011			R							
TRUCK TRACTOR	35095	2001	10	2011			R							
TRUCK TRACTOR	35096	2001	10	2011			R							
TRUCK TRACTOR	35097	2001	10	2011			R							
TRUCK TRACTOR	35098	2001	10	2011			R							
TRUCK TRACTOR	35099	2001	10	2011			R							
TRUCK TRACTOR	35100	2004	10	2014						R				
TRUCK TRACTOR	35101	2004	10	2014						R				
TRUCK TRACTOR	35102	2004	10	2014						R				
TRUCK TRACTOR	35103	2004	10	2014						R				
TRUCK TRACTOR	35104	2005	10	2015							R			

REFUSE DIVISION - VEHICLE FLEET SCHEDULE														
TYPE	FLEET #	YEAR	SERV. YRS.	REPL. YR.	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18
TRUCK TRACTOR	35105	2005	10	2015							R			
TRUCK TRACTOR	35106	2005	10	2015							R			
TRUCK TRACTOR	35107	2005	10	2015							R			
TRUCK TRACTOR	35109	2005	10	2015							R			
TRUCK TRACTOR	35110	2005	10	2015							R			
TRUCK TRACTOR	35111	2005	10	2015							R			
TRUCK TRACTOR	35112	2005	10	2015							R			
TRUCK TRACTOR	35113	2005	10	2015							R			
TRUCK TRACTOR	35116	2007	10	2017									R	
TRUCK TRACTOR	35117	2007	10	2017									R	
COMPRESSOR	37118	1993	5	1998										
COMPRESSOR	37119	1993	5	1998										
COMPRESSOR	37120	1993	5	1998										
GRADER	40020	1989	7	1996										
SWEEPER	46076	1988	7	1995	FY09 Appvd.									
SWEEPER	46087	1998	7	2005										
SEMI TRAILER	47234	1993	7	2000										
SEMI TRAILER	47260	1998	7	2005	FY09 Appvd.									
SEMI TRAILER	47298	2002	7	2009	R	FY10 Req.								
SEMI TRAILER	47299	2002	7	2009	R	FY10 Req.								
SEMI TRAILER	47300	2002	7	2009	R	FY10 Req.								
SEMI TRAILER	47301	2002	7	2009	R	FY10 Req.								
SEMI TRAILER	47302	2002	7	2009	R	FY10 Req.								
SEMI TRAILER	47306	2002	7	2009	R									
SEMI TRAILER	47308	2002	7	2009	FY09 Appvd.									
SEMI TRAILER	47309	2002	7	2009	FY09 Appvd.									
SEMI TRAILER	47310	2002	7	2009	FY09 Appvd.									
SEMI TRAILER	47311	2002	7	2009	FY09 Appvd.									
SEMI TRAILER	47312	2002	7	2009	FY09 Appvd.									
SEMI TRAILER	47313	2002	7	2009	R	FY10 Req.								
SEMI TRAILER	47314	2002	7	2009	R	FY10 Req.								
SEMI TRAILER	47319	2003	7	2010		R								
SEMI TRAILER	47320	2003	7	2010		R								
SEMI TRAILER	47321	2003	7	2010		R								
SEMI TRAILER	47322	2003	7	2010		R								
SEMI TRAILER	47323	2003	7	2010		R								
SEMI TRAILER	47324	2003	7	2010		R								
SEMI TRAILER	47325	2003	7	2010		R								
SEMI TRAILER	47326	2003	7	2010		R								
SEMI TRAILER	47327	2003	7	2010		R								
SEMI TRAILER	47331	2003	7	2010		R								

REFUSE DIVISION - VEHICLE FLEET SCHEDULE														
TYPE	FLEET #	YEAR	SERV. YRS.	REPL. YR.	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18
SEMI TRAILER	47338	2005	7	2012				R						
SEMI TRAILER	47339	2005	7	2012				R						
SEMI TRAILER	47358	2007	7	2014						R				
SEMI TRAILER	47359	2007	7	2014						R				
SEMI TRAILER	47360	2007	7	2014						R				
SEMI TRAILER	47361	2007	7	2014						R				
SEMI TRAILER	47369	2009	7	2016								R		
SEMI TRAILER	47370	2009	7	2016								R		
FORKLIFT	48065	1993	10	2003	FY09 Appvd.									
TRACTOR CRAWLER	49076	1988	7	1995										
LOADER (WHEELED)	51085	1984	7	1991										
BACKHOE	51091	1989	7	1996		FY10 Req.								
LOADER (WHEELED)	51126	1992	7	1999										
BACKHOE	51127	1992	7	1999										
LOADER (WHEELED)	51130	1993	7	2000										
LOADER (WHEELED)	51152	2002	7	2009	R	FY10 Req.								
LOADER (WHEELED)	51153	2002	7	2009	R									
LOADER (WHEELED)	51154	2002	7	2009	R									
BACKHOE	51155	2002	7	2009	R									
LOADER (WHEELED)	51162	2006	7	2013					R					
LOADER (WHEELED)	51163	2006	7	2013					R					
LOADER (WHEELED)	51164	2006	7	2013					R					
LOADER (WHEELED)	51165	2006	7	2013					R					
LOADER (WHEELED)	51171	2008	7	2015								R		
LOADER (WHEELED)	51172	2008	7	2015								R		
LOADER (WHEELED)	51173	2008	7	2015								R		
TRASH COMPACTOR (TRUCK)	?????	2005	10	2015								R		