

## **Attachment E**

# **Financial Assurance Documentation**



## **Post Closure Maintenance Cost Estimate for Cedar Hills Regional Landfill**

### Background

WAC 173-351 requires owners and operators of Municipal Solid Waste Landfills (MSWLF) have a detailed written estimate, in current dollars, of the cost of hiring a third party to conduct post-closure care for the MSWLF unit or all MSWLF units in compliance with the post-closure plan developed under WAC 173-351-500(2). The post closure period is defined to last thirty (30) years or as long as necessary for the landfill to become functionally stable. For this cost estimate, thirty (30) years maintenance is assumed, per the WAC requirement for Post Closure Maintenance (PCM).

PCM estimates have been prepared for Cedar Hills Regional Landfill (CHRLF) previously. These estimates are prepared based on historical levels of effort required for tasks that will continue through the post closure period and levels of effort required for similar tasks conducted at closed landfills maintained by the King County Solid Waste Division (SWD). Annual reviews include reviewing the proposed activities and adjusting activities that have changed based on changes to operation and maintenance practices utilized by SWD.

### Purpose

This document provides the basis for the PCM estimate. This includes the underlying assumptions and the documented changes from previous years. The estimate is to be reviewed annually and updated as necessary.

### 2022 Update

The cost items were reviewed for completeness annually by SWD Facility Engineering and Science Section. No additional items were identified. The line-item detail cost estimates in Table 1 remained the same and the total annual PCM cost was inflated to current year dollars. No additional capacity is assumed beyond the currently permitted landfill capacity in this financial assurance analysis for PCM.

### Major PCM Elements

The cost estimate includes maintenance costs for the environmental control systems at the site. The main systems include the following: landfill gas collection system; leachate collection system; North Flare Station; leachate aeration lagoons; cover system; and the groundwater monitoring network. All tasks from previous PCM estimates were reviewed to determine that all tasks are still necessary and that all necessary tasks are included. The itemized tasks were reviewed with SWD operations leads and/or supervisors.

All tasks were reviewed to determine whether current estimates of levels of effort to complete the task are still current and to determine level of effort for any new tasks.

This estimate is based on tasks being performed by SWD staff or outside contractors in the same manner as currently performed. To compensate for the potential that all tasks may be performed by contractors, a project management cost was added to the overall estimate. The underlying assumption is that the cost of performing the work remains constant whether performed by SWD staff or contractors; however, with outside contractors, SWD would incur

increased costs for managing contracts with said contractors. Contingency is also included in the PCM estimate.

The cost items in the PCM estimate include:

- Cover Maintenance & General Site Maintenance
  - Vegetation control
  - Geomembrane repair
  - Road maintenance
  - Fence Repair
  - Litter Control
  - Grading
  - Well Boot repair
- Leachate System Maintenance
  - Aerator repair and maintenance
  - Pump repair and maintenance
  - Leachate extraction well replacement
  - Periodic line cleaning
  - Air compressor repair and maintenance
- Stormwater System Maintenance
  - Stormwater conveyance system cleaning and maintenance
  - Catch basin cleaning and maintenance
  - Pond cleaning and maintenance
- Landfill Gas System Maintenance
  - Blower repair and maintenance
  - Flare repair and maintenance
  - Stack emissions testing
  - Routine testing and maintenance
- Environmental Monitoring
  - Groundwater and leachate samples
  - Laboratory analysis
  - Sample collection
  - Data analysis
  - Reporting
  - Data Management
- Electrical Utilities
- Permits
  - Operating Permit for Closed Landfill
  - Air Operating Permit
- Wastewater Utility Fees
- Project Management and Reporting
  - Sample collection
  - Data management
  - Reporting
  - Project Management
- Investigation and Remediation
- Project management costs for third party contractor
- Contingency

## Key Assumptions for Cost Estimates

Several key assumptions were made regarding the cost estimates. These assumptions are outlined below.

- ❖ The post closure period will be thirty (30) years in length, per WAC 173-351 requirements. This period begins when final closure is approved by Public Health – Seattle and King County (PHSKC). This period differs from Functional Stability Analysis.
- ❖ At the time of closure, BEW or an equivalent facility will be operating to utilize the landfill gas generated at the site. The facility will have scheduled downtime for maintenance, requiring use of the flares. The source testing requirement for this minimized use of the flares will be to test all flares once every five (5) years.
- ❖ The closure project at the final closure will leave all systems in full working condition, with no anticipated major repairs.
- ❖ Support facilities and equipment currently located at CHRLF will either be relocated or will be supported through another funding source.
- ❖ Leachate recirculation within the landfill is not included in the estimate. It is expected that if leachate recirculation is implemented, this will represent a cost savings for PCM.
- ❖ Operating and maintenance costs are included in the hourly rates for equipment.
- ❖ Overhead costs for employees include all costs associated with providing resources for employees to perform their tasks, including supervision.
- ❖ Equipment required to perform tasks is included in task budgets, including pickups for supervisors and leads. Equipment costs are based on federal approved rates, as available and Washington State approved rates otherwise.
- ❖ As is true with SWD's existing closed landfills, the Industrial General Stormwater Permit (IGSWP) will no longer be in effect after closure; no surface/storm water sampling will be required.
- ❖ The estimate is based on tasks being performed by SWD staff or outside contractors in the same manner as currently performed. To compensate for the potential that all tasks may be performed by contractors, a project management cost was added to the overall estimate. The underlying assumption is that the cost of performing the work remains constant whether performed by SWD staff or outside contractors, but SWD would incur increased costs for managing contracts with the contractors.
- ❖ The contingency in this estimate includes known unknowns such as responses to changes in groundwater quality or need to address landfill gas in native soil. This contingency assumes there will be one (1) major investigation and remediation project during the thirty-year closure period. This activity is projected from years 5 through 10, after PCM begins. Additional contingency is included to address the management of the risk that the landfill gas and leachate systems may have a failure requiring extensive repair or replacement and is assumed at 25% of the maintenance cost of the leachate and landfill gas systems.
- ❖ Major cost items with more uncertainty include a 5-10% estimating contingency. These items are maintenance activities currently performed and therefore have reliable cost projections to perform the work, but the frequency required is less certain. Higher contingency is applied to systems that have had more variable maintenance costs.
- ❖ Unknown unknowns are not included in the contingency and are assumed to be covered by management reserves. Examples of potential unknown unknowns include remediation due to Queen City Farms, changes to regulations and natural disasters.

Assumptions specific to the tasks are included in the detail tables that provide the supporting documentation for the estimate.

Summary of Costs

The summary of costs is provided in the table below.

**Table 1: Cedar Hills Regional Landfill Annual Post Closure Maintenance Cost Estimate  
(Updated in 2018 based on Area 8)**

<b>Task Group</b>	<b>Annual Amount</b>	<b>Basis</b>
Cover Maintenance	\$605,000	Based on 2012 estimated hours for PCM; updated wage and benefit rates and includes a 5% contingency, and was increased by 14%
Leachate System Maintenance	\$234,000	Based on 2012 estimated hours for PCM; updated wage and benefit rates; reduced aerator repair and replacement to reflect historical; adjusted for reduced leachate production in PCM and includes 10% contingency and was increased by 14%.
Stormwater System Maintenance	\$500,000	Based on 2012 estimated hours for PCM; updated wage and benefit rates and includes a 5% contingency and was increased by 14%.
Landfill Gas System Maintenance	\$300,000	Based on 2012 estimated hours for PCM; updated wage and benefit rates; assumes BEW or alternative utilizing all LFG; flares operating intermittently requiring source testing every 5 yrs. This estimate includes a 10% contingency.
Environmental Monitoring	\$166,000	2012 analytical lab, weather station maintenance inflated
Electrical Utilities	\$328,000	Based on 2012 costs increased by 14% and inflated.
Permits	\$6,000	Based on 2012 permit costs inflated
Project Management and Reporting <sup>1</sup>	\$754,000	Includes project management, field staff for monitoring; database mgmt. contract mgmt.; field equipment
Project management costs for third party contractor	\$238,000	Assumes contractor can complete labor at same cost as KCSWD; KC assumes 9% cost to manage - contingency is inherent to labor tasks
Wastewater utility	\$328,000	Assume reduced to average of 100 MG per year over the 30 years and increased by 14% from prior estimate
<b>Base Estimate</b>	<b>\$3,459,000</b>	

Contingency	\$308,000	Contingency based on 25% of leachate & LFG system maintenance plus one \$5M project occurring between years 5 and 10
<b>2018 Total</b>	<b>\$3,767,000</b>	2018 dollars
<b>2019 Total</b>	<b>\$3,984,000</b>	2019 dollars (CPI-U assumed at 5.76%)
<b>2020 Total</b>	<b>\$4,042,000</b>	2020 dollars (CPI-U assumed at 1.45%)
<b>2021 Total</b>	<b>\$4,134,562</b>	2021 dollars (CPI-U assumed at 2.29%)
<b>2022 Total</b>	<b>\$4,247,849</b>	2022 dollars (CPI-U assumed at 2.74%)

Exclusions

This estimate does not include costs of unknown risks. The risks addressed are identifiable and have some probability of occurring based on experiences at other closed sites. The estimate does not address the potential for the PCM period to extend beyond the minimum thirty (30) years prescribed in the WAC 173-351.

Attachments

Landfill Reserve Fund Model



**King County Solid Waste Division**  
**Solid Waste Rate Restructure Update**  
 Landfill Reserve Fund Contribution

\$ (6,944)

Year	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Status	Actuals	Actuals	Actuals	Actuals	Actuals	Actuals	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
Tonnage Forecast (total disposed tons)	922,000	931,177	888,512	868,532	869,149	877,064	883,700	895,630	890,198	883,166	864,764	846,333	733,430	710,031	693,187	683,125	672,612	661,636	658,541	655,130	666,595	678,260
Total Tons Placed in Landfill							883,700	895,630	890,198	883,166	864,764	846,333	733,430	710,031	693,187	683,125	672,612	661,636	658,541	655,130	666,595	678,260
EOY Capacity (TONS)				0.0	0.0	0.0	14,041,051	13,145,421	12,255,223	11,372,057	10,507,292	9,660,959	8,927,529	8,217,498	7,524,311	6,841,186	6,168,574	5,506,938	4,848,397	4,193,267	3,526,673	2,848,413

**ASSUMPTIONS**

CPI-U (Seattle)				1.45%	2.29%	2.74%	2.56%	2.81%	2.76%	2.64%	2.71%	2.73%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%
Nominal Interest Rate				1.40%	0.75%	0.55%	0.55%	0.58%	0.74%	0.86%	0.74%	1.00%	1.17%	1.17%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Real Interest Rate				-0.05%	-1.54%	-2.19%	-2.02%	-2.23%	-2.10%	-1.90%	-1.86%	-1.72%	-1.52%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Annual Escalation Target (<1.05)							1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.05	1.05	1.05

**CONTRIBUTION RATES**

CH New Area Development - C91001				\$ 2.77	\$ 2.84	\$ 3.02	\$ 3.22	\$ 3.42	\$ 3.63	\$ 3.85	\$ 4.08	\$ 4.33	\$ 4.58	\$ 4.85	\$ 5.13	\$ 5.42	\$ 5.72	\$ 6.03	\$ 6.36	\$ 6.70	\$ 7.07	\$ 7.46
CH Facility Improvement - C91002				\$ 0.39	\$ 0.40	\$ 0.43	\$ 0.46	\$ 0.48	\$ 0.51	\$ 0.55	\$ 0.58	\$ 0.61	\$ 0.65	\$ 0.69	\$ 0.73	\$ 0.77	\$ 0.81	\$ 0.86	\$ 0.90	\$ 0.95	\$ 1.00	\$ 1.05
Closure - C91003				\$ 5.12	\$ 5.24	\$ 5.58	\$ 5.93	\$ 6.31	\$ 6.70	\$ 7.11	\$ 7.54	\$ 7.99	\$ 8.45	\$ 8.95	\$ 9.46	\$ 9.99	\$ 10.55	\$ 11.13	\$ 11.73	\$ 12.36	\$ 13.03	\$ 13.71
CH Post-Closure Maintenance - C91004				\$ 5.79	\$ 5.94	\$ 6.32	\$ 6.72	\$ 7.14	\$ 7.59	\$ 8.05	\$ 8.54	\$ 9.05	\$ 9.58	\$ 10.13	\$ 10.71	\$ 11.32	\$ 11.95	\$ 12.61	\$ 13.29	\$ 14.00	\$ 14.75	\$ 15.51
<b>Total LRF /ton Rate</b>	\$ -	\$ -	\$ -	\$ 14.07	\$ 14.42	\$ 15.35	\$ 16.33	\$ 17.35	\$ 18.43	\$ 19.56	\$ 20.74	\$ 21.97	\$ 23.26	\$ 24.61	\$ 26.02	\$ 27.49	\$ 29.03	\$ 30.62	\$ 32.28	\$ 34.01	\$ 35.82	\$ 37.70

**CH NEW AREA DEVELOPMENT - C91001**

Starting Balance	\$ 8,761,940	\$ (36,858,951)	\$ (51,617,982)	\$ (50,191,247)	\$ (46,477,273)	\$ (46,666,139)	\$ (0)	\$ 2,715,550	\$ 5,602,448	\$ 8,667,439	\$ 11,882,221	\$ 15,257,903	\$ 18,421,682	\$ 21,726,823	\$ 25,762,930	\$ 30,085,970	\$ 34,706,764	\$ 39,635,896	\$ 44,932,285	\$ 50,613,954	\$ 56,797,664
Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 44,870,865	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenues/Transfers	\$ 5,516,386	\$ 5,263,581	\$ 6,010,913	\$ 6,693,801	\$ 2,999,113	\$ 2,510,559	\$ 2,708,138	\$ 2,862,851	\$ 3,018,596	\$ 3,138,920	\$ 3,259,915	\$ 2,995,445	\$ 3,072,608	\$ 3,176,098	\$ 3,311,653	\$ 3,447,439	\$ 3,582,835	\$ 3,764,913	\$ 3,951,388	\$ 4,238,556	\$ 4,543,177
Interest Earned	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (251,036)	\$ 7,412	\$ 24,047	\$ 46,395	\$ 75,862	\$ 115,767	\$ 168,334	\$ 232,533	\$ 860,009	\$ 1,011,388	\$ 1,173,355	\$ 1,346,298	\$ 1,531,475	\$ 1,730,281	\$ 1,945,155	\$ 2,178,870
Expenditures	\$ 18,921,710	\$ 20,022,612	\$ 4,584,177	\$ 2,979,827	\$ 3,187,980	\$ 464,249	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Year-End Balance</b>	\$ (51,617,982)	\$ (50,191,247)	\$ (46,477,273)	\$ (46,666,139)	\$ (0)	\$ 2,715,550	\$ 5,602,448	\$ 8,667,439	\$ 11,882,221	\$ 15,257,903	\$ 18,421,682	\$ 21,726,823	\$ 25,762,930	\$ 30,085,970	\$ 34,706,764	\$ 39,635,896	\$ 44,932,285	\$ 50,613,954	\$ 56,797,664	\$ 63,519,712	

**CH FACILITY IMPROVEMENT - C91002**

Starting Balance	\$ (2,845,058)	\$ (1,201,301)	\$ 1,372,409	\$ 3,984,823	\$ 4,041,464	\$ 2,112,256	\$ 24,510	\$ 318,642	\$ 646,733	\$ 991,704	\$ 1,354,607	\$ 1,681,894	\$ 2,139,738	\$ 2,677,359	\$ 3,254,387	\$ 3,872,310	\$ 4,532,581	\$ 5,243,502	\$ 6,007,577	\$ 6,841,310	
Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Revenues/Transfers	\$ 1,935,824	\$ 1,847,109	\$ 2,853,029	\$ 3,177,417	\$ 988,677	\$ 356,009	\$ 384,027	\$ 405,966	\$ 428,051	\$ 445,114	\$ 462,272	\$ 424,768	\$ 435,710	\$ 450,386	\$ 469,608	\$ 488,863	\$ 508,063	\$ 533,883	\$ 560,326	\$ 601,047	\$ 644,244
Interest Earned	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,876	\$ 5,832	\$ 992	\$ 3,139	\$ 6,049	\$ 10,008	\$ 15,177	\$ 22,134	\$ 87,235	\$ 107,420	\$ 129,060	\$ 152,207	\$ 177,039	\$ 203,750	\$ 232,685	\$ 264,235
Expenditures	\$ 1,844,614	\$ 203,352	\$ 279,318	\$ 565,002	\$ 932,036	\$ 2,302,094	\$ 2,477,605	\$ 112,826	\$ 103,098	\$ 106,191	\$ 109,377	\$ 112,658	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Year-End Balance</b>	\$ (1,201,301)	\$ 1,372,409	\$ 3,984,823	\$ 4,041,464	\$ 2,112,256	\$ 24,510	\$ 318,642	\$ 646,733	\$ 991,704	\$ 1,354,607	\$ 1,681,894	\$ 2,139,738	\$ 2,677,359	\$ 3,254,387	\$ 3,872,310	\$ 4,532,581	\$ 5,243,502	\$ 6,007,577	\$ 6,841,310	\$ 7,749,790	

**CLOSURE - C91003**

Starting Balance	\$ 20,687,079	\$ 19,750,248	\$ 24,274,851	\$ 29,797,840	\$ 21,185,480	\$ 12,327,476	\$ 9,164,958	\$ (45,272)	\$ (9,849,274)	\$ (12,921,617)	\$ (14,710,456)	\$ (20,403,437)	\$ (22,978,986)	\$ (40,434,982)	\$ (43,375,735)	\$ (46,169,773)	\$ (48,812,420)	\$ (51,210,359)	\$ (53,346,300)	\$ (55,021,345)	
Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Revenues/Transfers	\$ 6,067,642	\$ 5,789,574	\$ 5,412,375	\$ 6,027,601	\$ 4,625,291	\$ 4,632,744	\$ 4,997,338	\$ 5,282,829	\$ 5,570,226	\$ 5,792,261	\$ 6,015,534	\$ 5,527,506	\$ 5,669,895	\$ 5,860,866	\$ 6,111,006	\$ 6,361,573	\$ 6,611,419	\$ 6,947,409	\$ 7,291,512	\$ 7,821,423	\$ 8,383,543
Interest Earned	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 91,908	\$ 58,663	\$ 26,365	\$ (32,170)	\$ (84,062)	\$ (117,866)	\$ (175,503)	\$ (251,263)	\$ (1,148,386)	\$ (1,517,758)	\$ (1,621,611)	\$ (1,720,066)	\$ (1,811,348)	\$ (1,893,454)	\$ (1,962,468)	\$ (2,013,888)
Expenditures	\$ 5,522,902	\$ 6,726,406	\$ 887,772	\$ 504,612	\$ 13,237,651	\$ 13,582,657	\$ 8,218,519	\$ 14,519,424	\$ 15,342,059	\$ 8,780,543	\$ 7,686,508	\$ 11,044,984	\$ 7,994,180	\$ 22,168,476	\$ 7,534,000	\$ 7,534,000	\$ 7,534,000	\$ 7,534,000	\$ 7,534,000	\$ 7,534,000	\$ 7,534,000
<b>Year-End Balance</b>	\$ 19,750,248	\$ 24,274,851	\$ 29,797,840	\$ 21,185,480	\$ 12,327,476	\$ 9,164,958	\$ (45,272)	\$ (9,849,274)	\$ (12,921,617)	\$ (14,710,456)	\$ (20,403,437)	\$ (22,978,986)	\$ (40,434,982)	\$ (43,375,735)	\$ (46,169,773)	\$ (48,812,420)	\$ (51,210,359)	\$ (53,346,300)	\$ (55,021,345)	\$ (56,185,690)	

**CH POST CLOSURE MAINTENANCE - C91004**

Starting Balance	\$ 55,002,517	\$ 64,093,885	\$ 64,999,672	\$ 66,008,715	\$ 71,182,864	\$ 31,842,211	\$ 37,692,662	\$ 43,912,622	\$ 50,529,267	\$ 57,489,127	\$ 64,824,865	\$ 71,768,771	\$ 79,064,858	\$ 88,742,547	\$ 99,065,782	\$ 110,058,867	\$ 121,745,681	\$ 134,251,189	\$ 147,614,951	\$ 162,082,976		
Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (44,870,865)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Revenues/Transfers	\$ 10,239,844	\$ 9,091,369	\$ 905,787	\$ 1,009,043	\$ 5,174,149	\$ 5,247,670	\$ 5,660,657	\$ 5,984,043	\$ 6,309,587	\$ 6,561,095	\$ 6,814,003	\$ 6,261,197	\$ 6,422,486	\$ 6,638,805	\$ 6,922,147	\$ 7,205,973	\$ 7,488,983	\$ 7,869,571	\$ 8,259,347	\$ 8,859,596	\$ 9,496,328	
Interest Earned	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 282,542	\$ 189,795	\$ 235,917	\$ 307,057	\$ 398,765	\$ 521,735	\$ 682,709	\$ 873,602	\$ 3,038,884	\$ 3,401,088	\$ 3,787,112	\$ 4,197,831	\$ 4,635,938	\$ 5,104,414	\$ 5,608,429	\$ 6,153,851	
Estimated Annual Expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,703,927	\$ 4,811,657	\$ 4,943,302	\$ 5,070,090	\$ 5,212,519	\$ 5,356,200	\$ 5,497,667	\$ 5,646,924	\$ 5,801,029	\$ 5,956,999	\$ 6,117,163	\$ 6,281,634	\$ 6,450,526	\$ 6,623,959	\$ 6,802,056	\$ 6,984,941	\$ 7,172,743
Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Year-End Balance</b>	\$ 64,093,885	\$ 64,999,672	\$ 66,008,715	\$ 71,182,864	\$ 31,842,211	\$ 37,692,662	\$ 43,912,622	\$ 50,529,267	\$ 57,489,127	\$ 64,824,865	\$ 71,768,771	\$ 79,064,858	\$ 88,742,547	\$ 99,065,782	\$ 110,058,867	\$ 121,745,681	\$ 134,251,189	\$ 147,614,951	\$ 162,082,976	\$ 177,733,155		

Year CH Landfill runs out of capacity 2042

**LANDFILL RESERVE FUND (TOTAL)**

Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Contribution Summary	\$ 23,759,696	\$ 21,991,632	\$ 15,182,103	\$ 16,907,862	\$ 13,787,230	\$ 12,746,983	\$ 13,750,160	\$ 14,535,689	\$ 15,326,461	\$ 15,937,390	\$ 16,551,724	\$ 15,208,916	\$ 15,600,699	\$ 16,126,155	\$ 16,814,414	\$ 17,503,849	\$ 18,191,300	\$ 19,115,776	\$ 20,062,573	\$ 21,520,622	\$ 23,067,293
Interest Earnings	\$ 403,001	\$ 562,347	\$ 806,779	\$ 632,961	\$ 348,302	\$ 140,290	\$ 261,702	\$ 287,320	\$ 324,422	\$ 396,613	\$ 529,645	\$ 690,717	\$ 877,006	\$ 2,837,741	\$ 3,002,137	\$ 3,467,915					



Verify the Option 2 capacity numbers and cashflows  
 Increase CIP costs for A9 closure  
 Close here

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056
Status	Forecast	Forecast	Closing	Closed															
Tonnage Forecast (total disposed tons)	690,130	702,207	714,495	726,999	739,722	752,667	765,838	779,241	-	-	-	-	-	-	-	-	-	-	-
Total Tons Placed in Landfill	690,130	702,207	714,495	14,582	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EOY Capacity (TONS)	2,158,283	1,456,076	741,581	14,582	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ASSUMPTIONS	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056
CPI-U (Seattle)	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%
Nominal Interest Rate	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%
Real Interest Rate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Annual Escalation Target (<1.05)	1.05	1.05	1.05	1.05															

CONTRIBUTION RATES	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056
CH New Area Development - C91001	\$ 7.05	\$ 7.42	\$ 7.79	\$ 8.18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CH Facility Improvement - C91002	\$ 1.00	\$ 1.05	\$ 1.11	\$ 1.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closure - C91003	\$ 13.01	\$ 13.68	\$ 14.38	\$ 15.10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CH Post-Closure Maintenance - C91004	\$ 14.74	\$ 15.50	\$ 16.29	\$ 17.10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total LRF /ton Rate</b>	<b>\$ 35.80</b>	<b>\$ 37.65</b>	<b>\$ 39.57</b>	<b>\$ 41.55</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

CH NEW AREA DEVELOPMENT - C91001	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056
Starting Balance	\$ 63,519,712	\$ 70,818,408	\$ 78,734,135	\$ 87,309,389	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Adjustments	\$ -	\$ -	\$ -	\$ (90,650,000)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenues/Transfers	\$ 4,865,920	\$ 5,207,427	\$ 5,568,312	\$ 119,323	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Earned	\$ 2,432,777	\$ 2,708,300	\$ 3,006,941	\$ 3,222,756	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Year-End Balance</b>	<b>\$ 70,818,408</b>	<b>\$ 78,734,135</b>	<b>\$ 87,309,389</b>	<b>\$ 1,468</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

CH FACILITY IMPROVEMENT - C91002	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056
Starting Balance	\$ 7,749,790	\$ 8,738,391	\$ 9,812,779	\$ 10,978,916	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Adjustments	\$ -	\$ -	\$ -	\$ (11,400,000)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenues/Transfers	\$ 690,011	\$ 738,438	\$ 789,613	\$ 16,921	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Earned	\$ 298,590	\$ 335,950	\$ 376,524	\$ 405,288	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Year-End Balance</b>	<b>\$ 8,738,391</b>	<b>\$ 9,812,779</b>	<b>\$ 10,978,916</b>	<b>\$ 1,125</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

CLOSURE - C91003	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056
Starting Balance	\$ (56,185,690)	\$ (56,786,441)	\$ (56,767,545)	\$ (56,069,727)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Adjustments	\$ -	\$ -	\$ -	\$ 57,913,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenues/Transfers	\$ 8,979,101	\$ 9,609,286	\$ 10,275,228	\$ 220,187	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Earned	\$ (2,045,852)	\$ (2,056,389)	\$ (2,043,410)	\$ (2,064,166)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Expenditures	\$ 7,534,000	\$ 7,534,000	\$ 7,534,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Year-End Balance</b>	<b>\$ (56,786,441)</b>	<b>\$ (56,767,545)</b>	<b>\$ (56,069,727)</b>	<b>\$ (706)</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

CH POST CLOSURE MAINTENANCE - C91004	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056
Starting Balance	\$ 177,733,155	\$ 194,647,669	\$ 212,913,101	\$ 232,620,533	\$ 286,408,072	\$ 288,407,131	\$ 290,249,628	\$ 291,923,596	\$ 293,416,460	\$ 294,715,011	\$ 295,805,375	\$ 296,672,988	\$ 297,302,564	\$ 297,678,061	\$ 297,782,651	\$ 297,598,686	\$ 297,107,659	\$ 296,290,170	\$ 295,125,888
Adjustments	\$ -	\$ -	\$ -	\$ 44,137,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenues/Transfers	\$ 10,170,938	\$ 10,884,770	\$ 11,639,106	\$ 249,413	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Earned	\$ 6,743,576	\$ 7,380,662	\$ 8,068,326	\$ 9,399,239	\$ 10,409,532	\$ 10,479,100	\$ 10,542,781	\$ 10,600,130	\$ 10,650,681	\$ 10,693,943	\$ 10,729,401	\$ 10,756,514	\$ 10,774,715	\$ 10,783,409	\$ 10,781,972	\$ 10,769,748	\$ 10,746,051	\$ 10,710,163	\$ 10,661,328
Estimated Annual Expense	\$ 7,563,631	\$ 7,766,992	\$ 7,975,821	\$ 8,190,264	\$ 8,410,473	\$ 8,636,603	\$ 8,868,813	\$ 9,107,266	\$ 9,352,131	\$ 9,603,579	\$ 9,861,787	\$ 10,126,938	\$ 10,399,218	\$ 10,678,819	\$ 10,965,937	\$ 11,260,775	\$ 11,563,540	\$ 11,874,445	\$ 12,193,710
Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Year-End Balance</b>	<b>\$ 194,647,669</b>	<b>\$ 212,913,101</b>	<b>\$ 232,620,533</b>	<b>\$ 286,406,186</b>	<b>\$ 288,407,131</b>	<b>\$ 290,249,628</b>	<b>\$ 291,923,596</b>	<b>\$ 293,416,460</b>	<b>\$ 294,715,011</b>	<b>\$ 295,805,375</b>	<b>\$ 296,672,988</b>	<b>\$ 297,302,564</b>	<b>\$ 297,678,061</b>	<b>\$ 297,782,651</b>	<b>\$ 297,598,686</b>	<b>\$ 297,107,659</b>	<b>\$ 296,290,170</b>	<b>\$ 295,125,888</b>	<b>\$ 293,593,506</b>

Year CH Landfill runs out of capacity

LANDFILL RESERVE FUND (TOTAL)	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056
Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Contribution Summary	\$ 24,705,970	\$ 26,439,921	\$ 28,272,260	\$ 605,844	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Earnings	\$ 7,429,091	\$ 8,368,523	\$ 9,408,381	\$ 10,963,117	\$ 10,409,532	\$ 10,479,100	\$ 10,542,781	\$ 10,600,130	\$ 10,650,681	\$ 10,693,943	\$ 10,729,401	\$ 10,756,514	\$ 10,774,715	\$ 10,783,409	\$ 10,781,972	\$ 10,769,748	\$ 10,746,051	\$ 10,710,163	\$ 10,661,328
[EXTRA]	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Ending Fund Balance</b>	<b>\$ 217,418,026</b>	<b>\$ 244,692,470</b>	<b>\$ 274,839,112</b>	<b>\$ 286,408,072</b>	<b>\$ 288,407,131</b>	<b>\$ 290,249,628</b>	<b>\$ 291,923,596</b>	<b>\$ 293,416,460</b>	<b>\$ 294,715,011</b>	<b>\$ 295,805,375</b>	<b>\$ 296,672,988</b>	<b>\$ 297,302,564</b>	<b>\$ 297,678,061</b>	<b>\$ 297,782,651</b>	<b>\$ 297,598,686</b>	<b>\$ 297,107,659</b>	<b>\$ 296,290,170</b>	<b>\$ 295,125,888</b>	<b>\$ 293,593,506</b>

Conversion 1 million cubic yards (CY) => 1,600 lbs

CAPACITY	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056
Tonnage Deposited (converted to million CY)	0.86	0.88	0.89	0.91	0.92	0.94	0.96	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STARTING CAPACITY	3.56	2.70	1.82	0.93	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Calculation Check	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE

AREA 8	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056
Beginning Capacity																			



**King County Solid Waste Rate Re: Landfill Reserve Fund Con**

Year	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075
Status																			
Tonnage Forecast (total disposed tons)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Tons Placed in Landfill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EOY Capacity (TONS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>ASSUMPTIONS</b>																			
CPI-U (Seattle)	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%
Nominal Interest Rate	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%
Real Interest Rate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Annual Escalation Target (<1.05)																			

<b>CONTRIBUTION RATES</b>																			
CH New Area Development - C91001																			
CH Facility Improvement - C91002																			
Closure - C91003																			
CH Post-Closure Maintenance - C91004																			
<b>Total LRF /ton Rate</b>																			

<b>CH NEW AREA DEVELOPMENT - C91001</b>																			
Starting Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenues/Transfers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Earned	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Year-End Balance</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

<b>CH FACILITY IMPROVEMENT - C91002</b>																			
Starting Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenues/Transfers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Earned	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Year-End Balance</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

<b>CLOSURE - C91003</b>																			
Starting Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenues/Transfers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Earned	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Year-End Balance</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

<b>CH POST CLOSURE MAINTENANCE - C91004</b>																			
Starting Balance	\$ 293,593,506	\$ 291,670,704	\$ 289,334,104	\$ 286,559,223	\$ 283,320,428	\$ 279,590,885	\$ 275,342,510	\$ 270,545,915	\$ 265,170,350	\$ 259,183,650	\$ 252,552,171	\$ 245,240,733	\$ 237,212,547	\$ 228,429,156	\$ 218,850,360	\$ 208,434,145	\$ 197,136,604	\$ 184,911,864	\$ 171,711,998
Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenues/Transfers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Earned	\$ 10,598,757	\$ 10,521,622	\$ 10,429,056	\$ 10,320,152	\$ 10,193,960	\$ 10,049,485	\$ 9,885,687	\$ 9,701,476	\$ 9,495,712	\$ 9,267,205	\$ 9,014,708	\$ 8,736,917	\$ 8,432,471	\$ 8,099,943	\$ 7,737,846	\$ 7,344,624	\$ 6,918,651	\$ 6,458,228	\$ 5,961,580
Estimated Annual Expense	\$ 12,521,559	\$ 12,858,222	\$ 13,203,937	\$ 13,558,948	\$ 13,923,503	\$ 14,297,860	\$ 14,682,282	\$ 15,077,041	\$ 15,482,412	\$ 15,898,684	\$ 16,326,147	\$ 16,765,103	\$ 17,215,861	\$ 17,678,739	\$ 18,154,062	\$ 18,642,165	\$ 19,143,391	\$ 19,658,094	\$ 20,186,635
Expenditures	\$ 12,521,559	\$ 12,858,222	\$ 13,203,937	\$ 13,558,948	\$ 13,923,503	\$ 14,297,860	\$ 14,682,282	\$ 15,077,041	\$ 15,482,412	\$ 15,898,684	\$ 16,326,147	\$ 16,765,103	\$ 17,215,861	\$ 17,678,739	\$ 18,154,062	\$ 18,642,165	\$ 19,143,391	\$ 19,658,094	\$ 20,186,635
<b>Year-End Balance</b>	<b>\$ 291,670,704</b>	<b>\$ 289,334,104</b>	<b>\$ 286,559,223</b>	<b>\$ 283,320,428</b>	<b>\$ 279,590,885</b>	<b>\$ 275,342,510</b>	<b>\$ 270,545,915</b>	<b>\$ 265,170,350</b>	<b>\$ 259,183,650</b>	<b>\$ 252,552,171</b>	<b>\$ 245,240,733</b>	<b>\$ 237,212,547</b>	<b>\$ 228,429,156</b>	<b>\$ 218,850,360</b>	<b>\$ 208,434,145</b>	<b>\$ 197,136,604</b>	<b>\$ 184,911,864</b>	<b>\$ 171,711,998</b>	<b>\$ 157,486,943</b>

Year CH Landfill runs out of capacity

<b>LANDFILL RESERVE FUND (TOTAL)</b>																			
Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Contribution Summary	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Earnings	\$ 10,598,757	\$ 10,521,622	\$ 10,429,056	\$ 10,320,152	\$ 10,193,960	\$ 10,049,485	\$ 9,885,687	\$ 9,701,476	\$ 9,495,712	\$ 9,267,205	\$ 9,014,708	\$ 8,736,917	\$ 8,432,471	\$ 8,099,943	\$ 7,737,846	\$ 7,344,624	\$ 6,918,651	\$ 6,458,228	\$ 5,961,580
[EXTRA]	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Ending Fund Balance</b>	<b>\$ 291,670,704</b>	<b>\$ 289,334,104</b>	<b>\$ 286,559,223</b>	<b>\$ 283,320,428</b>	<b>\$ 279,590,885</b>	<b>\$ 275,342,510</b>	<b>\$ 270,545,915</b>	<b>\$ 265,170,350</b>	<b>\$ 259,183,650</b>	<b>\$ 252,552,171</b>	<b>\$ 245,240,733</b>	<b>\$ 237,212,547</b>	<b>\$ 228,429,156</b>	<b>\$ 218,850,360</b>	<b>\$ 208,434,145</b>	<b>\$ 197,136,604</b>	<b>\$ 184,911,864</b>	<b>\$ 171,711,998</b>	<b>\$ 157,486,943</b>

Conversion 1 million cubic yards (CY) => 1,600 lbs

<b>CAPACITY</b>																			
Tonnage Deposited (converted to million CY)																			
STARTING CAPACITY																			
Calculation Check																			

<b>AREA 8</b>																			
Beginning Capacity																			
Less Current Year Tonngage																			
Status																			
Excess Waste																			

<b>AREA 9</b>																			
Beginning Capacity																			
Less Current Year Tonngage																			
Status																			
Excess Waste																			

<b>AREAS 5&amp;6</b>																			
Beginning Capacity																			
Less Current Year Tonngage																			
Status																			
Excess Waste																			



**King County Solid Waste Rate Re: Landfill Reserve Fund Con**

Year	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090
Status															
Tonnage Forecast (total disposed tons)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Tons Placed in Landfill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EOY Capacity (TONS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ASSUMPTIONS	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090
CPI-U (Seattle)	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%
Nominal Interest Rate	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%
Real Interest Rate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Annual Escalation Target (<1.05)															

CONTRIBUTION RATES
CH New Area Development - C91001
CH Facility Improvement - C91002
Closure - C91003
CH Post-Closure Maintenance - C91004
<b>Total LRF /ton Rate</b>

CH NEW AREA DEVELOPMENT - C91001	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090
Starting Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenues/Transfers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Earned	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Year-End Balance</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

CH FACILITY IMPROVEMENT - C91002	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090
Starting Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenues/Transfers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Earned	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Year-End Balance</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

CLOSURE - C91003	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090
Starting Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenues/Transfers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Earned	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Year-End Balance</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

CH POST CLOSURE MAINTENANCE - C91004	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090
Starting Balance	\$ 157,486,943	\$ 142,184,410	\$ 125,749,794	\$ 108,126,072	\$ 89,253,713	\$ 69,070,563	\$ 47,511,746	\$ 24,509,549	\$ (6,697)	\$ (6,944)	\$ (7,200)	\$ (7,466)	\$ (7,741)	\$ (8,027)	\$ (8,323)
Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenues/Transfers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Earned	\$ 5,426,855	\$ 4,852,115	\$ 4,235,341	\$ 3,574,420	\$ 2,867,150	\$ 2,111,230	\$ 1,304,259	\$ 443,731	\$ (247)	\$ (256)	\$ (266)	\$ (275)	\$ (286)	\$ (296)	\$ (307)
Estimated Annual Expense	\$ 20,729,387	\$ 21,286,732	\$ 21,859,062	\$ 22,446,780	\$ 23,050,300	\$ 23,670,047	\$ 24,306,456	\$ 24,959,977	\$ 25,631,068	\$ 26,320,203	\$ 27,027,867	\$ 27,754,557	\$ 28,500,785	\$ 29,267,078	\$ 30,053,973
Expenditures	\$ 20,729,387	\$ 21,286,732	\$ 21,859,062	\$ 22,446,780	\$ 23,050,300	\$ 23,670,047	\$ 24,306,456	\$ 24,959,977	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Year-End Balance</b>	<b>\$ 142,184,410</b>	<b>\$ 125,749,794</b>	<b>\$ 108,126,072</b>	<b>\$ 89,253,713</b>	<b>\$ 69,070,563</b>	<b>\$ 47,511,746</b>	<b>\$ 24,509,549</b>	<b>\$ (6,697)</b>	<b>\$ (6,944)</b>	<b>\$ (7,200)</b>	<b>\$ (7,466)</b>	<b>\$ (7,741)</b>	<b>\$ (8,027)</b>	<b>\$ (8,323)</b>	<b>\$ (8,630)</b>

Year CH Landfill runs out of capacity

LANDFILL RESERVE FUND (TOTAL)	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090
Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Contribution Summary	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Earnings	\$ 5,426,855	\$ 4,852,115	\$ 4,235,341	\$ 3,574,420	\$ 2,867,150	\$ 2,111,230	\$ 1,304,259	\$ 443,731	\$ (247)	\$ (256)	\$ (266)	\$ (275)	\$ (286)	\$ (296)	\$ (307)
[EXTRA]	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Ending Fund Balance</b>	<b>\$ 142,184,410</b>	<b>\$ 125,749,794</b>	<b>\$ 108,126,072</b>	<b>\$ 89,253,713</b>	<b>\$ 69,070,563</b>	<b>\$ 47,511,746</b>	<b>\$ 24,509,549</b>	<b>\$ (6,697)</b>	<b>\$ (6,944)</b>	<b>\$ (7,200)</b>	<b>\$ (7,466)</b>	<b>\$ (7,741)</b>	<b>\$ (8,027)</b>	<b>\$ (8,323)</b>	<b>\$ (8,630)</b>

Conversion 1 million cubic yards (CY) => 1,600 lbs

CAPACITY
Tonnage Deposited (converted to million CY)
STARTING CAPACITY
Calculation Check

AREA 8
Beginning Capacity
Less Current Year Tonngage
Status
Excess Waste

AREA 9
Beginning Capacity
Less Current Year Tonngage
Status
Excess Waste

AREAs 5&6
Beginning Capacity
Less Current Year Tonngage
Status
Excess Waste