May 30, 2023

Ms. Courtney Scott HHW Program Manager Zero Waste Sonoma 2300 County Center Drive, Suite B-100 Santa Rosa, CA 95403

### Subject: Sonoma County Household Hazardous Waste Collection Facility Conceptual Cost Estimate

Dear Ms. Scott:

SCS is pleased to provide Zero Waste Sonoma with a conceptual cost estimate for a proposed Sonoma County Household Hazardous Waste (HHW) Collection Facility.

SCS Engineers utilized actual costs from a similar HHW Collection Facility constructed in 2011 in Elk Grove, CA. The Elk Grove HHW facility costs were provided to SCS by a consultant to Zero Waste Sonoma.

#### Elk Grove HHW Facility Summary

The completed Elk Grove HHW Facility included the following facility components:

- 120' x 70' (8,400 sq ft) building including concrete footings, slab-on-grade concrete floor, concrete beams, and a concrete topping slab. The standing seam metal roof panels are installed over plywood sheathing, while the walls are constructed of both CMU and wood framing materials.
- The building includes a waste storage room, mixing room, materials storage, utility room, electric room, employee break room, data room, men's and women's locker rooms, restrooms, janitor closet, reuse store, and offices. Additionally, there are two canopies: one that is 3,162 sq ft and the other is 1,470 sq ft.

#### Cost Estimate Procedure

SCS utilized the 2011 Elk Grove Development cost of \$2,806,622 as the basis for developing our cost estimate. After incorporating the price difference percentage between Sonoma County and Sacramento County, the adjusted project budget for the Sonoma County HHW Collection Facility is approximately \$2,973,449. For more information, please see the attached Summary of HHW Adjusted Cost in Sonoma County.

SCS used data from the U.S. Department of Commerce website at https://apps.bea.gov/iTable/?reqid=19&step=3&isuri=1&1921=survey&1903=13 to estimate the Courtney Scott May 30, 2023 Page 2

inflation factor between 2011 and 2022. We used an annual inflation factor of 5% for 2023 to 2027 when the facility construction is expected.

The following is a summary of cost estimate procedure:

1.	2011 Elk Grove costs	\$2,806,622
2.	Increased cost between Sacramento and Sonoma County 1	\$2,973,449

- 3. Actual Inflation rates from 2011 to 2022 <sup>2</sup> \$4,551,034
- 4. Estimated Inflation rates between 2022 and 2027 3 \$5,808,401
  - <sup>1.</sup> RSMeans data (2020 34th annual edition)
  - <sup>2.</sup> US Department of Commerce
  - 3. SCS estimate 5% Per Year

SCS's recommends that Zero Waste Sonoma budget approximately \$6.0 million to construct the proposed HHW facility in Sonoma County. This cost does not include land costs. We recommend that once a site is chosen for the proposed facility, a more detailed cost estimate be performed to include land and demolition costs.

Please see the attached Summary of HHW Cost for additional information.

If you should have any questions please do not hesitate to contact me at <u>tparker@scsengineers.com</u> or 505 991 4987.

Sincerely,

Romas D. Dalla

Thomas D. Parker, P.E., BCEE Project Director SCS Engineers

TP/ML

### Sonoma County HHW Conceptual Cost Estimate

## 2011 Elk Grove HHW Facility - Actual Costs

Fund Name	Fund Description		Cost		
	Demolition				
Household Haz. Waste EECBG Energy Block Grant Solid Waste Solid Waste Comm Haulers	Professional Services	\$	399,752		
Solid Waste Solid Waste Comm Haulers EGFA HHW Facility Bonds	Land	\$	-		
EGFA HHW Facility Bonds	Construction Engineering	\$	262,474		
EGFA HHW Facility Bonds	Construction Contract	\$	1,579,742		
EECBG Energy Block Grant Solid Waste EGFA HHW Facility Bonds	Miscellaneous	\$	564,654		
	·	\$	2,806,622		

1. 2011 Project costs for the Elk Grove HHW project provided by consultant to Sonoma County .

2. Miscellaneous includes (Administration, Material and Supplies, Insurance charge, Software, Bond cost, and Environmental.



# Summary of HHW Adjusted Cost in Sonoma County

Year	City Cost Index for Sacramento <sup>1</sup>	City Cost Index for Santa Rosa <sup>1</sup>	Price Difference Percentage
2022	114.4	121.2	1.059
	Adjus	\$ 2,973,449	

1. Data from the Heavy Construction Costs with RSMeans data (2020 34<sup>th</sup> annual edition)

		64	CDAMEN	TO				
DIVISION			SACRAMENTO			SANTA ROSA 954		
				942, 956 - 958			7074	
011100		MAT.	INST.	TOTAL	MAT.	INST.	TOTAL	
015433	CONTRACTOR EQUIPMENT		99.0	99.0	101.1	97.6	97.6	
0241, 31 - 34	SITE & INFRASTRUCTURE, DEMOLITION	95.6	111.3	106.4	101.4	102.6	102.2	
0310	Concrete Forming & Accessories	100.5	156.0	147.8	100.7	167.1	157.3	
0320	Concrete Reinforcing	86.0	134.4	109.4	104.6	135.1	119.3	
0330	Cast-in-Place Concrete	88.6	130.2	104.1	103.3	130.8	113.5	
03	CONCRETE	97.9	141.1	116.9	107.1	146.9	124.6	
04	MASONRY	106.1	145.9	130.6	101.8	153.5	133.6	
05	METALS	100.8	109.8	103.4	108.1	117.7	110.9	
06	WOOD, PLASTICS & COMPOSITES	87.1	160.2	127.3	93.6	173.0	137.3	
07	THERMAL & MOISTURE PROTECTION	122.2	142.5	131.0	108.9	154.1	128.6	
08	OPENINGS	103.9	149.0	114.4	100.8	161.4	114.9	
0920	Plaster & Gypsum Board	103.4	161.5	142.5	109.2	175.0	153.5	
0950, 0980	Ceilings & Acoustic Treatment	102.0	161.5	142.1	109.3	175.0	153.6	
0960	Flooring	115.8	128.6	119.4	102.1	136.5	111.7	
0970, 0990	Wall Finishes & Painting/Coating	107.9	134.1	123.4	91.1	165.5	135.2	
09	FINISHES	105.3	150.7	129.9	100.0	163.0	134.1	
COVERS	DIVS. 10 - 14, 25, 28, 41, 43, 44, 46	100.0	131.7	107.1	100.0	132.4	107.2	
21, 22, 23	FIRE SUPPRESSION, PLUMBING & HVAC	100.1	131.4	112.4	96.4	182.2	130.1	
26, 27, 3370	ELECTRICAL, COMMUNICATIONS & UTIL.	94.8	120.8	107.6	94.9	124.9	109.7	
MF2018	WEIGHTED AVERAGE	100.8	133.0	114.4	101.2	148.4	121.2	

# Summary of HHW Adjusted Cost

Year	Implicit Price Deflator for Nonresidential Structure <sup>1</sup>	Annual Inflation Factor <sup>(2)</sup>	Projected Budget		
2011	95.362	-	\$	2,973,449	
2012	100.000	1.049	\$	3,118,065	
2013	101.455	1.015	\$	3,163,433	
2014	107.198	1.057	\$	3,342,503	
2015	109.403	1.021	\$	3,411,257	
2016	109.670	1.002	\$	3,419,582	
2017	112.411	1.025	\$	3,505,048	
2018	114.116	1.015	\$	3,558,211	
2019	118.805	1.041	\$	3,704,417	
2020	120.380	1.013	\$	3,753,527	
2021	125.276	1.041	\$	3,906,187	
2022	145.957	1.165	\$	4,551,034	
2023	-	1.050	\$	4,778,586	
2024	-	1.050	\$	5,017,515	
2025	-	1.050	\$	5,268,391	
2026	-	1.050	\$	5,531,810	
2027	-	1.050	\$	5,808,401	

Data from the U.S. Department of Commerce website at <u>https://apps.bea.gov/iTable/?reqid=19&step=3&isuri=1&1921=survey&1903=13</u>
Estimated future inflation factor for (2023-2027).