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San Francisco Public Utilities Commission
525 Golden Gate Avenue, 13th Floor
San Francisco, CA 94102

September 7, 2022

To: Steven Ritchie, Assistant General Manager, Water Enterprise
Ellen Levin, Deputy Assistant General Manager, Water
Angela Cheung, Water Supply & Treatment Manager
Annette Devincenzi, Warehouse Manager

Cc: Ronald P. Flynn, Deputy General Manager
Nancy L. Hom, Assistant General Manager, Business Services & Chief Financial Officer
Charles Perl, Deputy Chief Financial Officer
Jennifer Hopkins, Information Technology Services Director

Subject: Fiscal Year End 2021-2022 Inventory Count –
Water Enterprise, Millbrae Warehouse and Sunol Yard Fuel Station

Dear Mr. Ritchie, Ms. Levin, Ms. Cheung, and Ms. Devincenzi:

The San Francisco Public Utilities Commission (SFPUC) engaged Crowe LLP (Crowe) to perform physical inventory count services for three enterprise funds including the Wastewater Enterprise, Water Enterprise, and Hetch Hetchy Enterprise.¹ This report represents results of Crowe's physical count of the inventory at the Water Enterprise's Millbrae warehouse and fuel inventory at the Millbrae and Sunol Yards.

A. Scope of Inventory Work

The SFPUC requested Crowe to perform an annual physical inventory of these enterprise funds to test whether significant variances exist between the physical count and the records in the SFPUC's Maximo Inventory Tracking System (Maximo), to determine the cause of variances, and to determine amounts that need to be adjusted in Maximo. The SFPUC requested reporting of the analysis, findings, and recommendations consistent with the format requested by SFPUC's Financial Services Bureau.

B. Warehouse Locations

The locations for the Water Enterprise physical inventory were:

Millbrae Warehouse
1000 El Camino Real
Millbrae, CA 94030

Sunol Yard
505 Paloma Way
Sunol, CA 94586

¹ Note that some of the enterprises have multiple warehouse locations.

On June 30, 2022, Crowe visited the above site and conducted the inventory observation that is the subject of this report. The last full inventory count was performed by Crowe for Post FY 2020-2021 on September 7, 2021, at the above identified warehouses.

The Millbrae Warehouse has controls in place for security, including a closed warehouse where only authorized personnel are allowed access. In **Table 1** below, we provide key data² from Crowe's inventory count as well as the results from the Post FY2020-2021 physical inventory count conducted by Crowe.

Table 1
San Francisco Public Utilities Commission
Water – Millbrae Warehouse and Sunol Yard Inventory Count
Comparison with Prior Physical Inventory Counts
(As of June 30, 2022)

Description	FY 2021-2022		FY 2020-2021	
	Items	Value	Items	Value
Count with no Discrepancies	1,104	\$ 581,819	\$ 1,104	\$ 544,435
Count Discrepancies	13	(441)	17	460
Total Inventory Counted	1,117	\$ 581,378	1,121	\$ 544,895
Percentage of Inventory Sampled	100%	100%	100%	100%
Percentage of Discrepancies	1.2%	-0.08%	1.5%	0.1%
Total Inventory per Maximo	1,117	\$ 581,378	1,121	\$ 544,895

Results

As indicated in Table 1, small discrepancies between Crowe's results from the sample count and the Maximo system were identified. The observation that follows explains the discrepancies in counts from the Maximo system. Crowe's recommendations are also included. Management responses were provided by the Millbrae Warehouse and Sunol Yard management team on August 22, 2022.

Observation #1 – Physical Inventory Counts Differed Slightly from Maximo Counts

Condition:

We identified a total of 13 items with a difference between the physical count and the count in Maximo. The total variance in the number of items counted was 1.2 percent (13 items divided by 1,117 items). Based on the physical count, and using the average cost in Maximo, we determined that the total value of the combined Millbrae Warehouse and Sunol Yard asset inventory was \$441, or 0.08 percent, above the total asset value of \$581,378 in Maximo.

We found 6 positive variances (where the physical count exceeded the Maximo inventory count) which totaled \$948. We found 7 negative variances (where the physical count fell below the Maximo inventory count) which totaled (\$507). In **Table 2** below we provide a summary of variances which shows that most of the variance dollar amount is fuel-related.

² Crowe did not perform any procedures related to the assigned value in the Maximo system.

Table 2
San Francisco Public Utilities Commission
Water – Millbrae Warehouse and Sunol Yard Inventory Count
Summary of Variances

Description	Item Count	Amount
Fuel Variances		
Positive	2	\$ 739
Negative	2	\$ (129)
Total Fuel Variances	4	\$ 610
Other Variances		
Positive	4	\$ 209
Negative	5	\$ (378)
Total Other Variances	9	\$ (169)
Total Variances	13	\$ 441

Finally, as shown in **Table 3** below, based on the fuel dip procedures Crowe performed for this physical count, we found the actual quantities of fuel contained in the four tanks varied from those in the Maximo system. We believe that the quantities we observed during our physical count using a manual dip process and a conversion formula were reasonably accurate as they closely matched quantities registered by an electronic measurement system contained in the fuel tanks that the Water Enterprise generated that day (referred to as the System Status Report).

Table 3
San Francisco Public Utilities Commission
Water – Millbrae Warehouse and Sunol Yard Fuel Inventory
Summary of Fuel Gallon and Cost Variances

Item Number	Description	Item Code	Issue Unit	CURBAL 6.30.22	Crowe Count 6.30.22	Variance	Average Cost	Variance
1	GASOLINE, TRUCK, DIESEL FUEL, MILLBRAE	091-40-3146	GAL	2,531	2,518	-13	\$ 5.6871	\$ (76)
2	GASOLINE, DIESEL, SUNOL	091-40-3147	GAL	1,597	1,609	12	\$ 6.3570	\$ 79
3	GASOLINE, AUTO, UNLEADED, MILLBRAE	091-30-3255	GAL	2,782	2,897	115	\$ 5.7508	\$ 660
4	GASOLINE, AUTO, UNLEADED, SUNOL	091-30-3260	GAL	846	837	-9	\$ 5.7538	\$ (53)
Total							\$	610

Criteria:

Chapter 6 of the City and County of San Francisco Office of the Controller’s Accounting Policies and Procedures identifies that Departments shall conduct a physical inventory at least annually and ensure that the inventory management system records accurately reflect inventory on hand. Additionally, Section 6.1 (Policy Guidelines) indicates that inventory system records must be promptly adjusted for any discrepancies identified in the physical counts, Departments must periodically review the inventory records for reasonableness and appropriateness of any changes to inventory unit cost, inventory valuation, and unit of measure, and Departments must periodically review the inventory for obsolescence and reasonableness of inventory classification. The Policy Guidelines also indicate that Departments should investigate significant discrepancies between the physical count, the inventory system records, and the accounting records; document the reasons for discrepancy and take corrective actions to reduce future discrepancies.

Cause:

Regarding the fuel variances observed, we determined that the Water Enterprise uses the automated fuel tracking information system, E.J. Ward, to capture fuel usage and the SFPUC Information Technology Services Bureau has developed an interface designed to periodically upload the E.J. Ward fuel usage data to the Maximo system. However, based on problems with the system interface between the E.J. Ward

system and the Maximo system, actual Water Enterprise fuel usage data was not consistently and accurately uploaded into Maximo causing the variances.

Effect:

The combined Millbrae and Sunol inventory value in the Maximo system is overstated by \$2,393. Regarding the fuel usage discrepancies, absent periodic monitoring of the fuel levels, the Millbrae Warehouse and Sunol Yard will have difficulty reconciling future inventories and identifying variances that are the result of missing fuel (e.g., theft), delivery errors, data entry errors, tank leaks, or shrinkage.

Recommendation:

The Millbrae Warehouse staff should update the asset inventory counts in Maximo after management approval. The SFPUC's Financial Services Bureau should adjust the General Ledger to reflect the actual cost of inventory on hand.

Management Response:

The audit recommendation is already implemented at the SFPUC. Millbrae Warehouse's inventory items are updated by staff on a regular basis. SFPUC's Financial Services Bureau staff audits the inventory adjustments periodically. Any variances noted are responded in writing by warehouse staff.

Other Matters

This Inventory did not constitute an audit, examination, review, or compilation of the historical and prospective financial information conducted in accordance with generally accepted auditing standards or with other standards established by the AICPA. Accordingly, Crowe is unable to express an opinion or any other form of assurance with respect to any of the historical or prospective financial information. Crowe did not perform any procedures to verify the Management Responses and Crowe does not provide any assurance regarding the accuracy or completeness of the responses. Any and all amounts referred to in this letter are preliminary and could change should additional procedures be performed. Additionally, issues that are not mentioned here could develop subsequent to the date of this letter that may have impacted Crowe's analysis or that Crowe may cite should additional procedures be performed.

The inventory services did not contemplate obtaining the understanding of internal controls or assessing control risk, tests of accounting records and responses to inquiries by obtaining corroborating evidential matter, and certain other procedures ordinarily performed during an audit or examination. Thus, this engagement was not intended to provide assurance that we would become aware of significant matters that would be disclosed in an audit or examination.

As part of this inventory, the SFPUC agreed to be responsible to: make all management decisions and perform all management functions; designate an individual who possesses suitable skill, knowledge, and/or experience, preferably within senior management to oversee our services; evaluate the adequacy and results of the services performed; accept responsibility for the results of the services; and establish and maintain internal controls, including monitoring ongoing activities. The SFPUC has ultimate authority for making changes to inventory reported in its Maximo system and on its financial statements.

Crowe's fees are not dependent upon the outcome of this report.

We appreciate the contribution of SFPUC management and your input and direction on this project. We also thank Millbrae Warehouse and Sunol Yard management and staff for providing access to the inventory and for timely responses to our requests.


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525 Golden Gate Avenue, 13th Floor
San Francisco, CA 94102

September 7, 2022

To: Barbara Hale, Assistant General Manager, Power
Ramon Abueg, Deputy Manager, Power Operations
Richard Stephens, Utility Services Manager
David Carter, Materials Coordinator
Bart Murphy, Materials Coordinator

Cc: Ronald P. Flynn, Deputy General Manager
Nancy L. Hom, Assistant General Manager, Business Services & Chief Financial Officer
Charles Perl, Deputy Chief Financial Officer
Jennifer Hopkins, Information Technology Services Director

Subject: Fiscal Year End 2021-2022
Inventory Count – Hetch Hetchy Enterprise, Hetchy Power In-City Warehouse

Dear Ms. Hale, Mr. Abueg, Mr. Stephens, Mr. Carter, and Mr. Murphy:

The San Francisco Public Utilities Commission (SFPUC) engaged Crowe LLP (Crowe) to perform physical inventory count services for three enterprise funds including the Wastewater Enterprise, Water Enterprise, and Hetch Hetchy Enterprise.¹ This report represents results of Crowe's physical count of the Hetch Hetchy Enterprise - Hetchy Power In-City inventory.

A. Scope of Inventory Work

The SFPUC requested Crowe to perform an annual physical inventory of these enterprise funds to test whether significant variances exist between the physical count and the records in the SFPUC's Maximo Inventory Tracking System (Maximo), to determine the cause of variances, and to determine amounts that need to be adjusted in Maximo. The SFPUC requested reporting of the analysis, findings and recommendations consistent with the format requested by SFPUC's Financial Services Bureau.

B. Warehouse Location(s)

The location for the Hetchy Power In-City physical inventory was:

Hetchy Power In-City Warehouse
Pier 23
San Francisco, California 94111

On June 21, 2022, Crowe visited the above site and conducted the inventory observation that is the subject of this report. The last full inventory count was performed by Crowe for Post FY 2020-2021 on August 24, 2021, at the above identified Hetchy Power warehouse.

The warehouse has controls in place for security, including a gated warehouse entry where Hetchy Power allows only authorized personnel access. In **Table 1** below, we provide key data² from Crowe's FY2021-

¹ Note that some of the enterprises have multiple warehouse locations.

² Crowe did not perform any procedures related to the assigned value in the Maximo system.

2022 inventory count as well as the results from the Post FY 2020-2021 physical inventory count conducted on August 24, 2021.

Table 1
San Francisco Public Utilities Commission
Hetchy Power In-City Warehouse Inventory Count
Comparison with Prior Physical Inventory Counts
(As of June 21, 2022)

Description	FY 2021-2022 (Crowe)		FY 2020-2021 (Crowe)	
	Items	Value	Items	Value
Count with no Discrepancies	794	\$ 1,359,722	829	\$ 1,292,773
Count Discrepancies	570	80,224	534	139,041
Total Inventory Counted	1,364	\$ 1,439,946	1,363	\$ 1,431,814
Percentage of Inventory Sampled	100%	100%	100%	100%
Percentage of Discrepancies	42%	5.6%	39%	9.7%
Total Inventory per Maximo	1,364	\$ 1,439,946	1,363	\$ 1,431,814

Results

As indicated in Table 1, discrepancies between Crowe's results from the full count and the Maximo system were identified. The two findings that follow explain the discrepancies in counts and difficulty in locating inventory items. Crowe's recommendations related to those findings are also included. Management responses to each finding were provided by the Hetchy Power management team on August 23, 2022.

Finding #1 – Physical Inventory Counts Differed from Maximo Counts

Condition:

We identified a total of 570 items with a difference between the physical count and the items reported in Maximo. The total variance in the number of items counted was 42 percent (570 items divided by 1,364 items). This represents similar discrepancy levels to those observed for fiscal year 2020-2021. We provided Hetchy Power In-City warehouse personnel with an opportunity to review/confirm the count figures and they agreed with the variances. This represents a recurring finding. Based on the physical count of the discrepancies, and using the average cost in Maximo, we determined that the total value of the warehouse inventory variance should be \$80,244, or 5.6 percent, below the current total asset value of \$1,439,946 in Maximo.

We found 194 positive variances (where the physical count exceeded the Maximo inventory count) which totaled \$65,549. We found 376 negative variances (where the physical count fell below the Maximo inventory count) which totaled (\$145,773). In **Table 2** below we list 20 items with either positive or negative variances above \$2,000. The combination of these 20 items represented (\$44,002), or about half of the (\$80,224) variance.

Table 2
San Francisco Public Utilities Commission
Hetchy Power In-City Warehouse Inventory Count
List of Items with Variance Above or Below \$2,000

Item Number	Description	Item Number	Maximo Count	Crowe Count	Variance	Average Cost	Value Difference
1	BUSS FUSEHOLDER, HEX-AA	PE-10-0067	62	152	90	67.56	\$ 6,080
2	POLE, 16FT, ROUND STEEL BOTTLENECK POLE, WITH GFI, LUMEC, BLACK FINISH	PE-10-1918	10	12	2	1,940.25	\$ 3,881
3	Bird Flight Diverter PGE 561455	PE-10-1756	50	105	55	62.08	\$ 3,415
4	STEEL POLE, 28.6FT, DOUBLE ARM	PE-10-0485	14	16	2	1,550.81	\$ 3,102
5	LU100SBY XL ECO 100W LAMP	PE-10-0621	13	66	53	52.82	\$ 2,800
6	60 AMP FUSES	PE-10-0083	146	359	213	11.21	\$ 2,388
7	POLES, WOOD 50"	PE-10-0771	14	12	(2)	1,059.30	\$ (2,119)
8	25Kv Plugged Elbow 200A LB ELM 262LR-C-CS2078 PGE 301585 - REPLACE INSULATING CAP	PE-10-1152	49	32	(17)	133.12	\$ (2,263)
9	Cable Support Kit	PE-10-1166	126	86	(40)	59.88	\$ (2,395)
10	N16 STREET LIGHTING CHRISTY BOX LID OLD	PE-10-0351	1,204	1,105	(99)	24.50	\$ (2,426)
11	LED Luminaire , Cobra Head, 108W, ROAD FOCUS, PHILLIP, LUMEC RFM-108W48LED3K-G2--R3M-UNV-DMG-[API-226]-AP12011-RCD7-GY3	PE-10-1548	30	28	(2)	1,222.86	\$ (2,446)
12	Transformer, 50 KVA, Pole Bolt 12KV/120/240	PE-10-1091	2	1	(1)	2,595.32	\$ (2,595)
13	1000MCMCOP2H LUG PG&E #303461	PE-5935-303461	100	-	(100)	28.55	\$ (2,855)
14	4 FOOT METAL ARM NEW	PE-10-0458	22	-	(22)	140.00	\$ (3,080)
15	GUV6N GLASS POST TOP FOR HOLOPHANE FIXTURES	PE-10-0661	9	1	(8)	400.00	\$ (3,200)
16	TX AL Plate 'SFPUC' machined on part	PE-10-1872	208	108	(100)	35.26	\$ (3,526)
17	MVR 175/V/BU/PA LAMP	PE-10-0639	111	89	(22)	250.00	\$ (5,500)
18	1100 MCM Straight Splice PGE 301434	PE-10-1925	15	-	(15)	556.18	\$ (8,343)
19	POLE, 16FT, ROUND STEEL BOTTLENECK POLE, LUMEC, BLACK FINISH	PE-10-1916	15	9	(6)	1,778.04	\$ (10,668)
20	26 FT SINGLE POLE	PE-10-0483	19	-	(19)	750.00	\$ (14,250)
21	Sum of Cost of Variance of 559 Other Items Whose Individual Variances Each Have an Absolute Value less Than \$2,000						\$ (36,222)
	Total						\$ (80,224)

Criteria:

Chapter 6 of the City and County of San Francisco Office of the Controller’s Accounting Policies and Procedures identifies that Departments shall conduct a physical inventory at least annually and ensure that the inventory management system records accurately reflect inventory on hand. Additionally, Section 6.1 (Policy Guidelines) indicates that inventory system records must be promptly adjusted for any discrepancies identified in the physical counts, Departments must periodically review the inventory records for reasonableness and appropriateness of any changes to inventory unit cost, inventory valuation, and unit of measure, and Departments must periodically review the inventory for obsolescence and reasonableness of inventory classification. The Policy Guidelines also indicate that Departments should investigate significant discrepancies between the physical count, the inventory system records, and the accounting records; document the reasons for discrepancy; and take corrective actions to reduce future discrepancies.

Cause:

Hetchy Power In-City warehouse staff identified several reasons for the differences in this physical count compared to the count in Maximo, including:

- System posting errors, by the individual entering the data, where the quantity entered was incorrect.
- Some storeroom areas (e.g., Streetlights 1 and 2) were incorrectly included in Maximo when the items were obsolete and should be removed from Maximo.
- Some inventory items were used on a project/job, and updates for these items were not reflected in Maximo.

Effect:

The Hetchy Power In-City inventory value in the Maximo system is overstated by \$80,224.

Recommendation:

Hetchy Power In-City warehouse staff should update the asset inventory counts in Maximo after management approval. The SFPUC Financial Reporting and Analysis division should adjust the General Ledger to reflect the actual cost of inventory on hand. Hetchy Power In-City should investigate the significant discrepancies between the physical counts noted in Tables 1 and 2, the Maximo system records, and the accounting records; document the reasons for discrepancies; and implement corrective actions to reduce future discrepancies. Finally, inventory warehouse staff should conduct regular physical inventory cycle counts and compare results with those in Maximo to ensure Maximo data is up-to-date and accurate.

Management Response:

Management concurs with Finding #1 and is working on correcting physical counts through cycle counts, the use of the Maximo Mobile Inventory app, implemented August 2022, and tighten inventory pick and use procedures to obtain accurate and real time information to reflect into Maximo. The field crews must implement better record keeping of materials used on a job. We note that although the number of discrepancies is still high, the financial discrepancy is lower from previous year – 5.6% this year.

Finding #2 – Some Inventory Was Difficult to Locate**Condition:**

While performing the physical count, we had difficulty locating some of the inventory items identified in the Maximo system. Some of the items were located behind other items and recessed which limited access and other items were not clearly marked with their item numbers.

Criteria:

Chapter 6 of the City and County of San Francisco Office of the Controller's Accounting Policies and Procedures identifies that Department's should prepare and organize storage for the inventory count.

Cause:

Hetchy Power In-City moved relatively recently to Pier 23 and has been transitioning its entire inventory to this new storage facility. Additionally, several items that were recently determined to be obsolete were commingled with the current inventory items in Maximo (e.g., significant quantities of light bulbs).

Effect:

A third-party cannot easily perform the full inventory counts without the assistance of storekeeper staff. There also is the potential for some inventory items not to be identified.

Recommendation:

For the next annual inventory, Hetchy Power In-City should clearly label and organize all its inventory, particularly the items outside of the storage shelves, so that a third party can easily identify and count the inventory.

Management Response:

Management concurs with Finding #2. The location information in Maximo needs to be cleaned up to reflect what is on the floor. Conducting more cycle counts will assist in verification of locations and result in accurate location. Due to the variations of materials, any 3rd party will have trouble identifying materials unless staff is present. Also, keeping necessary quantities can lead to overflow boxes or bins that we line up with initial bins. A new ID process and number system is being developed to create a uniform ID and Labeling process to improve ID and improve inventory levels.

Other Matters

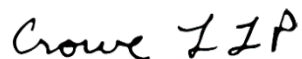
This Inventory did not constitute an audit, examination, review, or compilation of the historical and prospective financial information conducted in accordance with generally accepted auditing standards or with other standards established by the AICPA. Accordingly, Crowe is unable to express an opinion or any other form of assurance with respect to any of the historical or prospective financial information. Crowe did not perform any procedures to verify the Management Responses and Crowe does not provide any assurance regarding the accuracy or completeness of the responses. Any and all amounts referred to in this letter are preliminary and could change should additional procedures be performed. Additionally, issues that are not mentioned here could develop subsequent to the date of this letter that may have impacted Crowe's analysis or that Crowe may cite should additional procedures be performed.

The inventory services did not contemplate obtaining the understanding of internal controls or assessing control risk, tests of accounting records and responses to inquiries by obtaining corroborating evidential matter, and certain other procedures ordinarily performed during an audit or examination. Thus, this engagement was not intended to provide assurance that we would become aware of significant matters that would be disclosed in an audit or examination.

As part of this inventory, the SFPUC agreed to be responsible to make all management decisions and perform all management functions; designate an individual who possesses suitable skill, knowledge, and/or experience, preferably within senior management to oversee our services; evaluate the adequacy and results of the services performed; accept responsibility for the results of the services; and establish and maintain internal controls, including monitoring ongoing activities. The SFPUC has ultimate authority for making changes to inventory reported in its Maximo system and on its financial statements.

Crowe's fees are not dependent upon the outcome of this report.

We appreciate the contribution of SFPUC management and your input and direction on this project. We also thank Hetchy Power In-City management and staff for assisting providing access to the inventory and for timely responses to our requests.



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September 7, 2022

To: Steve Ritchie, Assistant General Manager, Water Enterprise
Margaret Hannaford, Division Manager, Hetch Hetchy Water/Moccasin
Cheryl Sperry, Administrative Services Manager
Ray Emerald, Assistant Materials Coordinator

Cc: Ronald P. Flynn, Deputy General Manager
Nancy L. Hom, Assistant General Manager, Business Services & Chief Financial Officer
Charles Perl, Deputy Chief Financial Officer
Jennifer Hopkins, Information Technology Services Director

Subject: Fiscal Year End 2021-2022
Inventory Count – Hetch Hetchy Enterprise, Moccasin Warehouse

Dear Mr. Ritchie, Ms. Hannaford, Ms. Sperry, and Mr. Emerald:

The San Francisco Public Utilities Commission (SFPUC) engaged Crowe LLP (Crowe) to perform physical inventory count services for three enterprise funds including the Wastewater Enterprise, Water Enterprise, and Hetch Hetchy Enterprise.¹ This report represents results of Crowe's physical count of the Hetch Hetchy Enterprise – Moccasin Warehouse inventory.

A. Scope of Inventory Work

The SFPUC requested Crowe to perform an annual physical inventory of these enterprises to test whether significant variances exist between the physical count and the records in the SFPUC's Maximo Inventory Tracking System (Maximo), to determine the cause of variances, and to determine amounts that need to be adjusted in Maximo. The SFPUC requested reporting of the analysis, findings, and recommendations consistent with the format requested by SFPUC's Financial Services Bureau.

B. Warehouse Location(s)

The location for the Hetch Hetchy Enterprise physical inventory was:

Moccasin Warehouse
10390 Moccasin Switchback Road
Moccasin, CA 95347

On June 28, 2022, Crowe visited the above site and conducted the inventory observation that is the subject of this report. The last full inventory count was performed by Crowe for Post FY 2020-2021 on August 12, 2021 at the above identified Moccasin warehouse.

¹ Note that some of the enterprises have multiple warehouse locations.

The Moccasin Warehouse has controls in place for security, including a closed warehouse where only the Moccasin Warehouse allows only authorized personnel access. In **Table 1** below, we provide key data² from Crowe's inventory count as well as the results from the Post FY2020-2021 physical inventory count conducted by Crowe.

Table 1
San Francisco Public Utilities Commission
Hetch Hetchy Moccasin Warehouse Inventory Count
Comparison with Prior Physical Inventory Counts
(As of June 28, 2022)

Description	FY 2021-2022		FY 2020-2021	
	Items	Value	Items	Value
Count with no Discrepancies	2,350	\$422,129	2,308	\$ 430,262
Count Discrepancies	20	(85)	45	496
Total Inventory Counted	2,370	\$ 422,044	2,353	\$ 430,758
Percentage of Inventory Sampled	100%	100%	100%	100%
Percentage of Discrepancies	0.8%	-0.02%	1.9%	0.1%
Total Inventory per Maximo	2,370	\$ 422,044	2,353	\$ 430,758

Results

As indicated in Table 1, minor discrepancies between Crowe's results from the count and the Maximo system were identified. The following observation explains the discrepancies in counts. Crowe's recommendation related to this observation is also included. Management responses were provided by the Moccasin management team on August 17, 2022.

Observation #1 – Physical Inventory Counts Differed from Maximo Report Counts

Condition:

We identified a total of 20 items with a difference between the physical count and the items reported in Maximo. The total variance in the number of items counted was 0.8 percent (20 items divided by 2,360 items). Based on the physical count, and using the average cost in Maximo, we determined that the total value of the Moccasin Warehouse asset inventory variance was \$85, or 0.02 percent, above the total asset value of \$422,044 in Maximo.

We found 10 positive variances (where the physical count exceeded the Maximo inventory count) which totaled \$660. We found 10 negative variances (where the physical count fell below the Maximo inventory count) which totaled (\$575). In **Table 2** below we provide a summary of variances.

² Crowe did not perform any procedures related to the assigned value in the Maximo system.

Table 2
San Francisco Public Utilities Commission
Hetch Hetchy Moccasin Warehouse Inventory Count
Summary of Variances

Description	Item Count	Amount
Fuel Variances		
Positive	6	\$317
Negative	5	(\$290)
Total Fuel Variances	11	\$27
Other Variances		
Positive	4	\$343
Negative	5	(\$285)
Total Other Variances	9	\$58
Total Variances	20	\$85

As shown in **Table 3** below, based on the fuel dip procedures Crowe performed for this physical count, we found the actual quantities of fuel contained in the eleven tanks varied slightly, or by \$27, from those in the Maximo system. **Table 4** provides the other \$58 in non-fuel count variances.

Table 3
San Francisco Public Utilities Commission
Hetch Hetchy Moccasin Warehouse Inventory Count
Summary of Fuel Count Variances

Item Number	Description	Item Code	Maximo Count	Crowe Count	Variance	Average Cost	Cost of Variance
1	GASOLINE, UNLEADED,CHERRY VLY.,#11.	091-30-3185	248	249	1.0	\$5.18	\$5
2	FUEL,RENEWABLE DIESEL,EARLY INTAKE (CHANGED FROM #2 DIESEL 4/12/16)	091-40-3149	130	136	6.0	\$4.11	\$25
3	GASOLINE, UNLEADED, MOCCASIN,#01.-2	091-30-3270	2381	2407	26.0	\$5.47	\$142
4	FUEL, RENEWABLE DIESEL, LOCATION: MOCC,#03	091-40-3148	856	854	(2.0)	\$6.01	(\$12)
5	GASOLINE, MOCCASIN , # 4-5 tanks	091-30-3271	1844	1860	16.0	\$5.69	\$91
6	FUEL, RENEWABLE DIESEL MOCCASIN - LOCATION - #6	091-40-3171	1795	1773	(21.5)	\$4.11	(\$88)
7	GASOLINE, UNLEADED, O'S,#04	091-30-3180	215	215	(0.4)	\$3.75	(\$2)
8	GASOLINE,UNLEAD,SOUTH FORK,#09.	091-30-3240	205	208	3.4	\$4.51	\$15
9	FUEL, RENEWABLE DIESEL,SOUTH FORK,#10 (CHANGED FROM #2 DIESEL 4/12/16)	091-40-3150	302	280	(21.5)	\$4.46	(\$96)
10	GASOLINE, UNLEADED, OAKDALE,#7.	091-30-3195	711	692	(19.0)	\$4.85	(\$92)
11	FUEL, RENEWABLE DIESEL OAKDALE (renamed from BIO DIESEL 3/3/16)	091-40-3170	897	905	8.0	\$4.81	\$39
						Total	\$27

Table 4
San Francisco Public Utilities Commission
Hetch Hetchy Moccasin Warehouse Inventory Count
Summary of Non-Fuel Count Variances

Item Number	Description	Item Code	Maximo Count	Crowe Count	Variance	Average Cost	Cost of Variance
1	1" RIGID 2 HOLE STRAP	059-76-1623	23	12	(11.0)	\$0.43	(\$5)
2	8-32 NUT, MACH. SCREW, 10/PKG. (1WA91)	053-01-832N	200	100	(100.0)	\$0.03	(\$3)
3	BOLT, CAP, NC., 5/16-18 x 2, 50/PKG., (22TA88)	053-01-0022	50	49	(1.0)	\$0.09	(\$0)
4	WASHER, LOCK, 1/2" SPLIT, 25/PKG. (22UH82)	053-01-2119	106	131	25.0	\$0.09	\$2
5	NAPA # 9883 AIR FILTER (FORD OEM# FA-1883)	023-82-9883	6	7	1.0	\$19.40	\$19
6	CONNECTOR, WR379, ALUM. COMPRESSION	059-77-WR37	200	0	(200.0)	\$1.38	(\$277)
7	INSULATOR PIN, LOW VOLTAGE, 5/8" PIN K7791Z (2.4 KV)	059-77-5923	0	11	11.0	\$13.78	\$152
8	TOWEL, BATH, COTTON, WHITE	072-10-6800	3	4	1.0	\$143.86	\$144
9	SAFETY VEST, CLASS 3, LARGE, LIME, ZIP FRONT	084-15-1512	15	16	1.0	\$25.43	\$26
Total							\$58

Criteria:

Chapter 6 of the City and County of San Francisco Office of the Controller’s Accounting Policies and Procedures identifies that Departments shall conduct a physical inventory at least annually and ensure that the inventory management system records accurately reflect inventory on hand. Additionally, Section 6.1 (Policy Guidelines) indicates that inventory system records must be promptly adjusted for any discrepancies identified in the physical counts, Departments must periodically review the inventory records for reasonableness and appropriateness of any changes to inventory unit cost, inventory valuation, and unit of measure, and Departments must periodically review the inventory for obsolescence and reasonableness of inventory classification. The Policy Guidelines also indicate that Departments should investigate significant discrepancies between the physical count, the inventory system records, and the accounting records; document the reasons for discrepancy and take corrective actions to reduce future discrepancies.

Cause:

Moccasin Warehouse staff indicated two reasons for the differences in this physical count compared to the count in Maximo, including:

- Fuel system communication problems and rounding differences (11 items)
- Data entry errors (9 items).

Regarding the minor fuel volumes variance valued at \$27, we determined Moccasin Warehouse uses the automated fuel tracking information system, E.J. Ward, to record fuel usage. The SFPUC information technology department developed an interface designed to periodically upload the fuel usage data to the Maximo system. This system is reliable, however, there may be delays in updating data because of poor network communication systems. The reason for the small variances from the quantities we observed during our physical count and those current in Maximo, was based on rounding errors as a result of using a manual dip process and a conversion formula to determine fuel quantities.

Effect:

The Moccasin Warehouse inventory value in the Maximo system is understated by \$85, which is considered de minimis.

Recommendation:

The Moccasin warehouse staff should update the asset inventory counts in Maximo after management approval. The SFPUC Financial Reporting and Analysis division should adjust the General Ledger to reflect the actual cost of inventory on hand.

Management Response:

Hetch Hetchy Water concurs with the recommendation and we have made the corresponding adjustments.

Other Matters

This Inventory did not constitute an audit, examination, review, or compilation of the historical and prospective financial information conducted in accordance with generally accepted auditing standards or with other standards established by the AICPA. Accordingly, Crowe is unable to express an opinion or any other form of assurance with respect to any of the historical or prospective financial information. Crowe did not perform any procedures to verify the Management Responses and Crowe does not provide any assurance regarding the accuracy or completeness of the responses. Any and all amounts referred to in this letter are preliminary and could change should additional procedures be performed. Additionally, issues that are not mentioned here could develop subsequent to the date of this letter that may have impacted Crowe's analysis or that Crowe may cite should additional procedures be performed.

The inventory services did not contemplate obtaining the understanding of internal controls or assessing control risk, tests of accounting records and responses to inquiries by obtaining corroborating evidential matter, and certain other procedures ordinarily performed during an audit or examination. Thus, this engagement was not intended to provide assurance that we would become aware of significant matters that would be disclosed in an audit or examination.

As part of this inventory, the SFPUC agreed to be responsible to: make all management decisions and perform all management functions; designate an individual who possesses suitable skill, knowledge, and/or experience, preferably within senior management to oversee our services; evaluate the adequacy and results of the services performed; accept responsibility for the results of the services; and establish and maintain internal controls, including monitoring ongoing activities. The SFPUC has ultimate authority for making changes to inventory reported in its Maximo system and on its financial statements.

Crowe's fees are not dependent upon the outcome of this report.

We appreciate the contribution of SFPUC management and your input and direction on this project. We also thank Moccasin Warehouse management and staff for providing access to the inventory and for timely responses to our requests.

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San Francisco Public Utilities Commission
525 Golden Gate Ave
San Francisco, CA 94102

September 7, 2022

To: Greg Norby, Assistant General Manager, Wastewater Enterprise
Joel Prather, Maintenance Manager
Christian Losno, Materials Coordinator
Jorge Gonzalez, Assistant Supervisor of Stores & Equipment

Cc: Ronald P. Flynn, Deputy General Manager
Nancy L. Hom, Assistant General Manager, Business Services & Chief Financial Officer
Charles Perl, Deputy Chief Financial Officer
Jennifer Hopkins, Information Technology Services Director

Subject: Fiscal Year End 2021-2022
Inventory Count - Wastewater Enterprise Warehouse

Dear Mr. Norby, Prather, Losno, and Gonzalez:

The San Francisco Public Utilities Commission (SFPUC) engaged Crowe LLP (Crowe) to perform physical inventory count services for three enterprises including the Wastewater Enterprise, Water Enterprise, and Hetch Hetchy Enterprise.¹ This report represents results of Crowe's physical count of the Wastewater Enterprise inventory (Inventory).

A. Scope of Inventory Work

The SFPUC requested Crowe to perform an annual physical inventory of these enterprises to test whether significant variances exist between the physical count and the records in the SFPUC's Maximo Inventory Tracking System (Maximo), to determine the cause of variances, and to determine amounts that need to be adjusted in Maximo. The SFPUC requested reporting of the analysis findings, and recommendations consistent with the format requested by SFPUC's Financial Services Bureau.

B. Warehouse Location(s)

The location for the Wastewater Enterprise physical inventory was:

2725 Oakdale Avenue
San Francisco, California 94124

On June 23, 2022, Crowe visited the above site and conducted the inventory observation that is the subject of this report. The last full inventory count was performed by Crowe for Post FY 2020-2021 on July 23, 2021 at the above identified Wastewater warehouse.

The Wastewater Enterprise has controls in place for security, including a closed warehouse where the Wastewater Enterprise allows only authorized personnel access. Additionally, most of the small to mid-

¹ Note that some of the enterprises have multiple warehouse locations.

sized inventory items are maintained in secure cabinets with pull out drawers under lock and key. In **Table 1** below, we provide key data² from Crowe's FY2021-2022 inventory count as well as the results from the last Post FY2020-2021 physical inventory count conducted by Crowe.

Table 1
San Francisco Public Utilities Commission
Wastewater Inventory Count
Comparison with Prior Physical Inventory Counts
(As of June 23, 2022)

Description	FY 2021-2022		FY 2020-2021	
	Items	Value	Items	Value
Count with no Discrepancies	3,762	\$ 2,934,555	3,820	\$ 2,644,448
Count Discrepancies	109	22,955	93	33,513
Total Inventory Counted	3,871	\$ 2,957,510	3,913	\$ 2,677,961
Percentage of Inventory Sampled	100%	100%	100%	100%
Percentage of Discrepancies	2.8%	0.8%	2.4%	1.3%
Total Inventory per Maximo	3,871	\$ 2,957,510	3,913	\$ 2,677,961

Results

As indicated in Table 1, discrepancies between Crowe's results from the sample count and the Maximo system were identified. The following finding explain the discrepancies in counts. Crowe's recommendations related to those findings are also included. Management responses to each finding were provided by the Wastewater management team on August 31, 2022.

Finding #1 – Physical Inventory Counts Differed from Maximo Report Counts

Condition:

We identified a total of 109 items with a difference between the physical count and the count in Maximo. The total variance in the number of items counted was 2.8 percent (109 divided by 3,871 items). Based on the physical count, and using the average cost in Maximo, we determined that the total value of the Wastewater Enterprise inventory count discrepancies to be \$22,955, or 0.8 percent, below the current total asset value of \$2,957,510 in Maximo.

We found 19 positive variances (where the physical count exceeded the Maximo inventory count) which totaled \$10,130. We found 90 negative variances (where the physical count fell below the Maximo inventory count) which totaled (\$33,085). In **Table 2** below we list 7 items with either positive or negative variances above \$1,000. The combination of these 7 items represented (\$11,938), or about half of the (\$22,955) variance.

² Crowe did not perform any procedures related to the assigned value in the Maximo system.

Table 2
San Francisco Public Utilities Commission
Wastewater Inventory Count
List of Items with Variance Above or Below \$1,000

Item Number	Item Description	Item Code	Maximo Count	Crowe Count	Variance	Average Cost	Cost of Variance
1	WEAR, RING; "ALLIS-CHALMERS" PN: 08-218-196-022,	GRING-0320	1	2	1	\$ 8,809.2	\$ 8,809
2	PUMP, LUBE, TYPE 18, ROPER, 18AM21	MPUMP-0002	2	-	(2)	\$ 502.2	\$ (1,004)
3	ELECTRICAL DEGREASER, AEROSOL, 17 OZ	ACLEA-0110	72	10	(62)	\$ 18.7	\$ (1,158)
4	V-BELT, 8V1600 HUMBLT CENT (ISSUE AS 5 EA)	ABLTE-1600	20	5	(15)	\$ 174.7	\$ (2,620)
5	BEARING KIT, "MOYNO" PN:4220107000 (KPG291)	MKITS-7623	4	2	(2)	\$ 1,888.6	\$ (3,777)
6	BOARD, INTERFACE, 600HP, ROBICON P/#460E04.00T	EROBI-BD06	1	-	(1)	\$ 3,853.9	\$ (3,854)
7	WEAR, RING; "ALLIS-CHALMERS" PN: 08-218-196-021,	GRING-0319	2	1	(1)	\$ 8,333.7	\$ (8,334)
8	Sum of Cost of Variance of 102 Other Items Whose Individual Variances Each Have an Absolute Value less Than \$1,000						\$ (11,017)
Total							\$ (22,955)

Criteria:

Chapter 6 of the City and County of San Francisco Office of the Controller's Accounting Policies and Procedures identifies that Department's shall conduct a physical inventory at least annually and ensure that the inventory management system records accurately reflect inventory on hand. Additionally, Section 6.1 (Policy Guidelines) indicates that inventory system records must be promptly adjusted for any discrepancies identified in the physical counts, Departments must periodically review the inventory records for reasonableness and appropriateness of any changes to inventory unit cost, inventory valuation, and unit of measure, and Departments must periodically review the inventory for obsolescence and reasonableness of inventory classification. The Policy Guidelines also indicate that Department's should investigate significant discrepancies between the physical count, the inventory system records, and the accounting records; document the reasons for discrepancy and take corrective actions to reduce future discrepancies.

Cause:

Variations were caused by several factors including an item that was misplaced in a bin, returned items not updated in the system, and minor miscounts during periodic cycle counts.

Effect:

The Wastewater Enterprise inventory value in the Maximo system is overstated by \$22,955.

Recommendation:

The Wastewater warehouse staff should update the asset inventory counts in Maximo system after management approval. The SFPUC Financial Reporting and Analysis division should adjust the General Ledger to reflect the actual cost of inventory on hand. The Wastewater Enterprise should investigate the significant discrepancies between the physical counts noted in Tables 1 and 2, the Maximo system records, and the accounting records; document the reasons for discrepancies; and implement corrective actions to reduce future discrepancies.

Management Response:

We concur that our cycle counts need to improve, in particular we should be focusing more on our high dollar inventory during these counts. We are currently revising the standard operating procedures for the cycle count and inventory issue/return processes.

However, after we had a chance to review the spreadsheet listing the discrepancy findings provided by Crowe, of the 109 identified items, our staff were able to confirm that only 79 items actually had discrepancies. The 30 items that we were able to identify had total calculated value of \$9,435 and thus should result in a total revised overstatement of \$13,520.

Description	CROWE		SFPUC	
	FY 2021-2022		FY 2021-2022	
	Items	Value	Items	Value
Count with no Discrepancies	3,762	\$ 2,934,555	3,792	\$ 2,943,990
Count Discrepancies	109	22,955	79	13,520
Total Inventory Counted	3,871	\$ 2,957,510	3,871	\$ 2,957,510
Percentage of Inventory Sampled	100%	100%	100%	100%
Percentage of Discrepancies	2.8%	0.8%	2.0%	0.5%
Total Inventory per Maximo	3,871	\$ 2,957,510	3,871	\$ 2,957,510

For the next audit, WWE requests that our staff be able to accompany the auditors during their evaluation of our inventory so that these issues can be confirmed as they are identified.

Another factor that contributes to these issues is staffing. Our WWE warehouse staff positions currently consist of (1) 1938 Stores and Equipment Assistant Supervisor, (1) 1936 Senior Storekeeper, and (3) 1934 Storekeepers. Of those positions, we currently only have two 1934 Storekeeper positions filled. We do have a recruitment underway with SFPUC-HRS for the 1938 Stores and Equipment Assistant Supervisor, and we are in the process of setting up interviews for the third 1934 Storekeeper position.

Crowe Response:

Crowe will work with WWE to coordinate the efforts and review exceptions during the next inventory count. As Crowe did not perform any procedures on the additional WWE inventory count data provided in the table above within the management response, Crowe cannot comment on the validity of that inventory count data.

Status of Findings from Prior Physical Inventory Count

As shown in **Table 3** below, two of the findings from Crowe's prior inventory report dated November 10, 2021, titled "Some Items Identified in the Physical Count Were Not Identified in the Maximo System" and "Some Inventory Items Appeared Obsolete" were remediated during the last fiscal year.

Table 3
San Francisco Public Utilities Commission
Wastewater Inventory Count
FY 2020-2021 Findings Update

2021 Findings	Remediated
Finding #1 – Physical Inventory Counts Differed from Maximo Counts	
Finding #2 – Some Items Identified in the Physical Count Were Not Identified in the Maximo System	√
Finding #3 – Some Inventory Items Appeared Obsolete	√

Other Matters

This Inventory did not constitute an audit, examination, review, or compilation of the historical and prospective financial information conducted in accordance with generally accepted auditing standards or with other standards established by the AICPA. Accordingly, Crowe is unable to express an opinion or any other form of assurance with respect to any of the historical or prospective financial information. Any and all amounts referred to in this letter are preliminary and could change should additional procedures be performed. Additionally, issues that are not mentioned here could develop subsequent to the date of this letter that may have impacted Crowe's analysis or that Crowe may cite should additional procedures be performed.

The inventory services did not contemplate obtaining the understanding of internal controls or assessing control risk, tests of accounting records and responses to inquiries by obtaining corroborating evidential matter, and certain other procedures ordinarily performed during an audit or examination. Thus, this engagement was not intended to provide assurance that we would become aware of significant matters that would be disclosed in an audit or examination.

As part of this inventory, the SFPUC agreed to be responsible to: make all management decisions and perform all management functions; designate an individual who possesses suitable skill, knowledge, and/or experience, preferably within senior management to oversee our services; evaluate the adequacy and results of the services performed; accept responsibility for the results of the services; and establish and maintain internal controls, including monitoring ongoing activities. The SFPUC has ultimate authority for making changes to inventory reported in its Maximo system and on its financial statements. Crowe's fees are not dependent upon the outcome of this report and Crowe is independent with respect to any other economic interests.

We appreciate the contribution of SFPUC management and your input and direction on this project. We also thank Wastewater Enterprise management and staff for assisting providing access to the inventory and for timely responses to our requests.

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September 7, 2022

To: Steve Ritchie, Assistant General Manager, Water Enterprise
Ellen Levin, Deputy Assistant General Manager, Water Enterprise
William Teahan, CDD Division Manager
William Toman, CDD Materials Coordinator
Andy O'Brien, CDD Materials Coordinator

Cc: Ronald P. Flynn, Deputy General Manager
Nancy L. Hom, Assistant General Manager, Business Services & Chief Financial Officer
Charles Perl, Deputy Chief Financial Officer
Jennifer Hopkins, Information Technology Services Director

Subject: Fiscal Year End 2021-2022 Inventory Count –
Water Enterprise, CDD Main Warehouse, AWSS Warehouse, and
6 Satellite Warehouses (Auto, Carpenter, Electrical, Ground, LMPS, and Machine Shops)

Dear Mr. Ritchie, Ms. Levin, Mr. Teahan, Ms. Pohl, Mr. Toman and Mr. O'Brien:

The San Francisco Public Utilities Commission (SFPUC) engaged Crowe LLP (Crowe) to perform physical inventory count services for three enterprise funds including the Wastewater Enterprise, Water Enterprise, and Hetch Hetchy Enterprise.¹ This report represents results of Crowe's physical count of the Water Enterprise inventory (CDD Main and AWSS Warehouses and 6 Satellite Warehouses).

A. Scope of Inventory Work

The SFPUC requested Crowe to perform an annual physical inventory of these enterprises to test whether significant variances exist between the physical count and the records in the SFPUC's Maximo Inventory Tracking System (Maximo), to determine the cause of variances, and to determine amounts that need to be adjusted in Maximo. The SFPUC requested reporting of the analysis, findings, and recommendations consistent with the format requested by SFPUC's Financial Services Bureau.

B. Warehouse Location(s)

The locations for the Water Enterprise physical inventory were:

CDD Main (and 5 Satellites)
1990 Newcomb Ave
San Francisco, California 94124

¹ Note that some of the enterprises have multiple warehouse locations.

AWSS
 1980 Oakdale Ave
 Twin Peaks Reservoir
 San Francisco, California 94124

LPMS Satellite
 991 Lake Merced Blvd.
 San Francisco, California 94132

Crowe performed inventory site visits of the Satellite shops, the MAIN storeroom and the AWSS storeroom between June 7 and June 9, 2022. The last full inventory count of CDD MAIN and AWSS storerooms was performed July 20 and 21, 2021 and August 10, 2021 by Crowe for Post FY 2020-2021.

The Water Enterprise has controls in place for security, including a closed parking lot and warehouse where the Water Enterprise allows only authorized personnel access. In **Table 1** below, we provide key data² from Crowe's FY2021-2022 inventory count as well as the results from the last full FY2020-2021 inventory count conducted by Crowe. Note that the counts for FY 2021-2022 are higher than Post FY 2020-2021 as a result of the addition of the six satellites to the inventory count this year.

Table 1
San Francisco Public Utilities Commission
Water CDD (MAIN, AWSS, and 6 Satellite Shops) Inventory Count
Summary of Key Data
(As of June 9, 2022)

Description	FY 2021-2022 (Crowe)		FY 2020-2021 (Crowe)*	
	Items	Value	Items	Value
Count with no Discrepancies	1,558	\$ 5,624,865	1,129	\$ 4,754,265
Count Discrepancies	472	235,043	413	161,134
Total Inventory Counted	2,030	\$ 5,859,909	1,542	\$ 4,915,399
Percentage of Inventory Sampled	100%	100%	100%	100%
Percentage of Discrepancies	23%	4.0%	27%	3.3%
Total Inventory per Maximo	2,030	\$ 5,859,909	1,363	\$ 4,915,399

*Does not include counts for 6 satellite shops.

Results

As indicated in Table 1, discrepancies between Crowe's results from the sample count and the Maximo system were identified. The finding that follows explains the discrepancies in counts. Crowe's recommendations related to the finding is also included. Management responses to the finding were provided by the Water Enterprise management team on August 18, 2022.

Finding #1 – Physical Inventory Counts Differed from Maximo Counts

Condition:

We identified a total of 472 items with a difference between the physical count and the items reported in Maximo. The total variance in the number of items counted was 23 percent (472 items divided by 2,030 items). This is a repeat finding. Based on the physical count, and using the average cost in Maximo, we determined that the total value of the Water Enterprise asset inventory with discrepancies to be \$235,043, or 4 percent, above the current total asset value of \$5,859,909 in Maximo.

² Crowe did not perform any procedures related to the assigned value in the Maximo system.

We found 258 positive variances (where the physical count exceeded the Maximo inventory count) which totaled \$380,412. We found 214 negative variances (where the physical count fell below the Maximo inventory count) which totaled (\$145,369). In **Table 2** below we list 14 items with either positive or negative variances above \$5,000. The combination of these 14 items represented \$228,473 ((\$22,066) plus \$250,539), or the majority of the total \$235,043 variance (see Value of Discrepancies in Table 1).

Table 2
San Francisco Public Utilities Commission
Water (CDD and AWSS and 6 Satellite Shops) Inventory Count
List of Items with Variance Above or Below \$5,000

Item Number	Description	Shop	Item Code	Issue Unit	Maximo Count	Crowe Count	Variance	Average Cost	Variance
1	GASOLINE, AUTO, UNLEADED, C.D.D.	CD-MAIN	091-30-3250	GAL	5,862.1	3,697.0	(2,165.10)	5.1933	\$ (11,244)
2	DIESEL, RENEWABLE (99%)	CD-MAIN	091-40-3151	GAL	3,976.8	2,090.0	(1,886.80)	5.7357	\$ (10,822)
	Subtotal Gasoline Related (Variance +-\$5000)								\$ (22,066)
3	TEE, 10" MJB X 8" MJB	CD-AWSS	047-34-6404	EA	8	0	(8.00)	3,500	\$ (28,000)
4	SENSOR, TOTAL CHLORINE, CTE 1-MA, 0.1-10 PM (FOR D1C, D2C)	CD-LMPS	068-20-4078	EA	9	0	(9.00)	1,222	\$ (10,999)
5	BEND, MJ X BELL, 90 DEG., 8"	CD-AWSS	047-31-2490	EA	5	0	(5.00)	1,418	\$ (7,090)
6	PIPE, D.I., CLASS 53, BELL & SPIGOT, TYPE 2, 6" PUSH ON, ZINC COATING	CD-MAIN	047-10-4566	FT	565	320	(245.50)	27	\$ (6,747)
7	TEE, 18" MJB X 8" FLANGE	CD-AWSS	047-34-6411	EA	1	0	(1.00)	6,314	\$ (6,314)
8	COLLAR, BELL, 18"	CD-AWSS	047-33-9118	EA	8	2	(6.00)	874	\$ (5,244)
9	COLLAR, STOP, 18"	CD-AWSS	047-33-9018	EA	3	10	7.00	904	\$ 6,328
10	ADAPTER, 16" SPIGOT GH X 16" MJ	CD-AWSS	047-30-1044	EA	0	2	2.00	4,157	\$ 8,313
11	ADAPTER, 20" SPIGOT MJ X GH	CD-AWSS	047-30-1052	EA	5	7	2.00	4,964	\$ 9,928
12	ADAPTER, 16" MJB X GH SPIGOT	CD-AWSS	047-30-1248	EA	0	2	2.00	5,300	\$ 10,600
13	PLATE, STEEL, 1/4" X 48" X 96"	CD-MACH	095-15-2150	SF	10	160	150.00	687	\$ 102,977
14	PLATE, STEEL, DIAMOND, 1/4" X 4" X 8"	CD-MACH	095-15-0614	SF	6	192	186.00	950	\$ 176,787
15	Subtotal Other than Gasoline Related (Variance +-\$5000)								\$ 250,539
16	All Other Variances with Absolute Value Less than \$5,000								\$ 6,570
								Total	\$ 235,043

Finally, as shown in **Table 3** below, based on the fuel dip procedures Crowe performed for this physical count, we found the actual quantities of fuel contained in the two tanks varied from those in the Maximo system. We believe that the quantities we observed during our physical count using a manual dip process and a conversion formula were reasonably accurate as they closely matched quantities registered by an electronic measurement system contained in the fuel tanks that the Water Enterprise generated that day (referred to as the System Status Report).

Table 3
San Francisco Public Utilities Commission
Water (CDD and AWSS and 6 Satellite Shops) Inventory Count
Summary of Fuel Gallon and Cost Variances

Item Number	Description	Item Code	Issue Unit	Maximo Count (6.9.22)	Crowe Count (6.9.22)	Variance	Average Cost	Variance
1	GASOLINE, AUTO, UNLEADED, C.D.D.	091-30-3250	GAL	5,862	3,697	(2,165)	\$ 5.1933	\$ (11,244)
2	DIESEL, RENEWABLE (99%)	091-40-3151	GAL	3,977	2,090	(1,887)	\$ 5.7357	\$ (10,822)
	Total							\$ (22,066)

Criteria:

Chapter 6 of the City and County of San Francisco Office of the Controller's Accounting Policies and Procedures identifies that Departments shall conduct a physical inventory at least annually and ensure that the inventory management system records accurately reflect inventory on hand. Additionally, Section 6.1 (Policy Guidelines) indicates that inventory system records must be promptly adjusted for any discrepancies identified in the physical counts, Departments must periodically review the inventory records for reasonableness and appropriateness of any changes to inventory unit cost, inventory valuation, and unit of measure, and Departments must periodically review the inventory for obsolescence and reasonableness of inventory classification. The Policy Guidelines also indicate that Departments should investigate significant discrepancies between the physical count, the inventory system records, and the accounting records; document the reasons for discrepancy; and take corrective actions to reduce future discrepancies.

Cause:

The Water Enterprise indicated several reasons for the differences in this physical count compared to the count in Maximo, including:

- Occasional system posting manual errors by the individual entering the data where the quantity or unit of measure entered was incorrect.
- Miscounted items from periodic cycle counts, including use of different counting methods and items not being fully separated to make accurate counts.
- Some of the Satellite shop counts had never had previously cycle counts.
- For some Satellite shop counts, the inventory users had not submitted issue tags to warehouse management when items were used.
- For the large variances associated with the Satellite Machine Shop counts, the Maximo counts were incorrect due to a unit of measure data entry error. For example, some items were recorded in Maximo either in square footage, or as individual sheets, when purchased and received, but then these items when issued were entered into Maximo by square feet rather than as individual sheets.
- Fuel variances due to known existing system interface issues between SFPUC's Maximo & EJ Ward software.

Regarding the overstated fuel volumes observed, we determined that the Water Enterprise uses the automated fuel tracking information system, E.J. Ward, to capture fuel usage and the SFPUC information technology department has developed an interface designed to periodically upload the E.J. Ward fuel usage data to the Maximo system. However, based on problems with the system interface between the E.J. Ward system and the Maximo system, actual Water Enterprise fuel usage data is not consistently and accurately uploaded into Maximo causing the variances.

Effect:

The Water Enterprise inventory value in the Maximo system is understated by \$235,043. Regarding the fuel usage discrepancies, absent periodic monitoring of the fuel levels, the Water Enterprise will have difficulty reconciling future inventories and identifying variances that are the result of missing fuel (e.g., theft), delivery errors, data entry errors, tank leaks, or shrinkage.

Recommendation:

The Water warehouse staff should update the asset inventory counts in Maximo after management approval. The SFPUC Financial Reporting and Analysis division should adjust the General Ledger to reflect the actual cost of inventory on hand. The Water Enterprise should investigate the significant discrepancies between the physical counts noted in Tables 1 and 2, the Maximo system records, and the accounting records; document the reasons for discrepancies; and implement corrective actions to reduce future discrepancies.

Regarding the fuel discrepancies, we recommend that in the short-term, the Water Enterprise develop a procedure to perform periodic manual reconciliations between actual fuel usage (either using manual handwritten logs or via system generated E.J. Ward reports showing amounts dispensed) with fuel usage amounts reflected in the Maximo system. The Water Enterprise should record fuel usage in cases where the data is not reflected in the Maximo system due to problems with the system interface. Over the longer term the Water Enterprise and the SFPUC Information Technology Services bureau should work toward fixing the fuel usage interface between the E.J. Ward system and the Maximo system such that manual reconciliations are not necessary.

Management Response:

The CDD Warehouse team concurs with these findings and commits to taking corrective actions to reduce future discrepancies. The CDD Warehouse Team will be extra careful in observing unit of measure discrepancies and correcting the conversions in the Maximo system before issue transactions post. Meetings will be held to address with storekeepers of various count methods best for certain inventory items. Satellite shop supervisors will begin to conduct cycle counts in their respective areas. The CDD Warehouse Team will work with Satellite Shop Supervisors on having shop employees submit issue tags in a timely manner and on a consistent basis to accurately reflect the inventory that has been removed from the respective storage bins. Finally, fuel variances will be addressed by collaborative efforts between the CDD Management Team, the CDD Warehouse, and the Maximo IT Team. Units of measure variances have been identified and corrected for the Machine Shop inventory.

Other Matters

This Inventory did not constitute an audit, examination, review, or compilation of the historical and prospective financial information conducted in accordance with generally accepted auditing standards or with other standards established by the AICPA. Accordingly, Crowe is unable to express an opinion or any other form of assurance with respect to any of the historical or prospective financial information. Crowe did not perform any procedures to verify the Management Responses and Crowe does not provide any assurance regarding the accuracy or completeness of the responses. Any and all amounts referred to in this letter are preliminary and could change should additional procedures be performed. Additionally, issues that are not mentioned here could develop subsequent to the date of this letter that may have impacted Crowe's analysis or that Crowe may cite should additional procedures be performed.

The inventory services did not contemplate obtaining the understanding of internal controls or assessing control risk, tests of accounting records and responses to inquiries by obtaining corroborating evidential matter, and certain other procedures ordinarily performed during an audit or examination. Thus, this engagement was not intended to provide assurance that we would become aware of significant matters that would be disclosed in an audit or examination.

As part of this inventory, the SFPUC agreed to be responsible to make all management decisions and perform all management functions; designate an individual who possesses suitable skill, knowledge, and/or experience, preferably within senior management to oversee our services; evaluate the adequacy and results of the services performed; accept responsibility for the results of the services; and establish and maintain internal controls, including monitoring ongoing activities. The SFPUC has ultimate authority for making changes to inventory reported in its Maximo system and on its financial statements.

Crowe's fees are not dependent upon the outcome of this report.

We appreciate the contribution of SFPUC management and your input and direction on this project. We also thank Water Enterprise management and staff for assisting providing access to the inventory and for timely responses to our requests.

Crowe LLP
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