2021
WET WEATHER OUTFALL RECONNAISSANCE REPORT

PROTECT OUR HARBOR WATERS
MĀLAMA I KE AWA KAI
HDOT Harbors Division
http://hidot.hawaii.gov/harbors/malamaikeawakai

Department of Transportation, Harbors Division
NPDES Permit No. HI03KB482
January 2021

1 SUMMARY

Wet weather outfall inspections were conducted for outfalls located at Piers 40 through 43 at the Honolulu Harbor by EnviroServices & Training Center, LLC on January 25, 2021. These inspections were conducted in compliance with the 2014 Consent Decree Provision 16.c and following the procedures described in the State of Hawaii, Department of Transportation, Harbors Division (Harbors), Outfall Reconnaissance Inventory and Inspection Program. Maps generated from CityWorks® and information from previous outfall reconnaissance were utilized to prepare for and assist with the inspections.

The result of each inspection was entered into CityWorks®, together with information associated with each outfall's characterization, presence of suspected illicit discharge, and relevant photo documentation.

Inspectors conducted the inspections from the land side and remained vigilant throughout the inspection. Suspected illicit discharges were observed at several outfalls during the course of inspection including, but not limited to D6500, D6980, D6990, D7662, D7664, D7560, D7580, despite the fact that best management practices (BMPs) were in place at majority of the site. Exposed areas adjacent and at the construction site appeared to be the main source of all suspected illicit discharges. Sheen, grass clippings, and miscellaneous debris also appeared to be discharging from the outfalls. In addition, trash was observed in several areas along Piers 40 through 43. Exposed areas adjacent and at the construction site also caused a suspected illicit discharge via sheet flow discharging to the harbor water in various areas throughout Pier 43. This wet weather outfall reconnaissance is summarized in Table 1.

In response to the above-mentioned findings, a routine inspection was conducted by Ben Ahukuelo (from Yogi Kwong Engineers, LLC) on January 27, 2021, to assess BMPs installed at the construction site and to determine the need for maintenance or repair to further minimize the pollutants of concern from discharging into adjacent harbor water. Biosocks and coverings were installed at stockpiles, drain inlet protection (witches' hats and biosocks) were cleaned and re-installed, and additional biosocks located throughout the site were also cleaned and re-installed. The Construction Site Best Management Practices Inspection Checklist and corrective action photos are provided as an attachment to this report.

Table 1: Wet Weather Outfall Reconnaissance Summary

Pier	Outfall ID	Date (2021)	Method of Inspection	Illicit Discharge?	Comment(s)
41	SDDHO416500	1/25	Outfall	Yes	Outfall submerged. Trash and debris observed on the land-side near the outfall. Vegetation, grass clippings, and a sheen were observed discharging from the outfall. The water in the surrounding area appeared brown and murky.
41	SDDHO416970	1/25	Outfall	No	Due to excessive vegetation growth, it was difficult to access a view point of the outfall.

Pier	Outfall ID	Date (2021)	Method of Inspection	Illicit Discharge?	Comment(s)
41	SDDHO416980	1/25	Outfall	Yes	Sediment appeared to be discharging from the outfall along with trash, debris, and vegetation.
41	SDDHO416990	1/25	Outfall	Yes	Outfall located under pier or was submerged. Trash and debris observed on the land-side near the outfall. Sediment appeared to be discharging from the outfall.
41	SDDHO417662	1/25	Outfall	Yes	Outfall located under pier or was submerged. Trash and debris observed on the land-side near the outfall. Sediment and a sheen were observed discharging from the outfall. Located near machinery.
41	SDDHO417664	1/25	Outfall	Yes	Outfall located under pier or was submerged. Trash, debris, and grass clippings observed on the land-side near the outfall. Sediment and a sheen were observed discharging from the outfall. Located near machinery.
42	SDDHO427030	1/25	Outfall	No	Outfall located under pier and was partially submerged.
42	SDDHO427060	1/25	Outfall	No	Outfall located under pier and was submerged.
42	SDDHO427560	1/25	Outfall	Yes	Outfall located under pier or was submerged. Sediment was observed discharging from the outfall.
42	SDDHO427580	1/25	Outfall	Yes	Outfall located under pier or was submerged. Sediment was observed discharging from the outfall.
42	SDDHO427600	1/25	Outfall	No	Trash and debris were observed along the shoreline near the outfall.

2 ATTACHMENTS

Attachment A. Outfall Photographic Documentation
Attachment B. Sheet Flow Photographic Documentation
Attachment C. Cityworks® Outfall Reconnaissance Inspection Reports
Attachment D. Construction Site Best Management Practices Inspection Checklists and Corrective Actions Dated January 27, 2021

Attachment A.

Outfall Photographic Documentation

Photo #: D6500_3 **Pier:** 41
Outfall ID: SDDHO416500
Previous ID: P41-03
Characterization: Obvious
Land use: Construction Site
Type: Closed Pipe
Materials: RCP
Shape: Box
Grouping: Single
Dimensions: 108” x 96”
Submerged: Fully

Photo #: D6970_2 **Pier:** 41
Outfall ID: SDDHO416970
Previous ID: P41-01
Characterization: Unlikely
Land use: Construction Site
Type: Closed Pipe
Materials: RCP
Shape: Circular
Grouping: Single
Dimensions: 12” (TBV)
Submerged: Unknown

Photo #: D6980_1 **Pier:** 41
Outfall ID: SDDHO416980
Previous ID: P41-02
Characterization: Obvious
Land use: Construction Site
Type: Closed Pipe
Materials: RCP
Shape: Circular
Grouping: Single
Dimensions: 16”
Submerged: Partially

Photo #: D6990_1 **Pier:** 41
Outfall ID: SDDHO416990
Previous ID: N/A
Characterization: Obvious
Land use: Construction Site
Type: Closed Pipe
Materials: RCP
Shape: Circular
Grouping: Single
Dimensions: 12” (TBV)
Submerged: Fully

Photo #: D7662_1 **Pier:** 41
Outfall ID: SDDHO417662
Previous ID: N/A
Characterization: Obvious
Land use: Construction Site
Type: Closed Pipe
Materials: RCP
Shape: Circular
Grouping: Single
Dimensions: 12”
Submerged: Fully

Photo #: D7664_1 **Pier:** 41
Outfall ID: SDDHO417664
Previous ID: N/A
Characterization: Obvious
Land use: Construction Site
Type: Closed Pipe
Materials: RCP
Shape: Circular
Grouping: Single
Dimensions: 24”
Submerged: Fully

Photo #: D7030_2 **Pier:** 42
Outfall ID: SDDHO427030
Previous ID: P42-01
Characterization: Unlikely
Land use: Construction Site
Type: Closed Pipe
Materials: RCP
Shape: Circular
Grouping: Single
Dimensions: 18”
Submerged: Partially

Photo #: D7060_2 **Pier:** 42
Outfall ID: SDDHO427060
Previous ID: P42-PSI
Characterization: Unlikely
Land use: Construction Site
Type: Closed Pipe
Materials: Steel
Shape: Circular
Grouping: Single
Dimensions: 4”
Submerged: Fully

Photo #: D7560_1 **Pier:** 43
Outfall ID: SDDHO437560
Previous ID: P44/45-04
Characterization: Obvious
Land use: Construction Site
Type: Closed Pipe
Materials: RCP
Shape: Circular
Grouping: Single
Dimensions: 24”
Submerged: Fully

Photo #: D7580 **Pier:** 43
Outfall ID: SDDHO437580
Previous ID: N/A
Characterization: Obvious
Land use: Construction Site
Type: Close Pipe
Materials: RCP
Shape: Circular
Grouping: Single
Dimensions: 24”
Submerged: Fully

Photo #: D7600_2 **Pier:** 43
Outfall ID: SDDHO437600
Previous ID: P44/45-01
Characterization: Unlikely
Land use: Construction Site
Type: Closed Pipe
Materials: Steel
Shape: Circular
Grouping: Single
Dimensions: 12”
Submerged: Partially

Attachment B.

Sheet Flow Photographic Documentation

Photo 1: View of sheet flow discharging to the ocean at Pier 43.

Photo 2: Additional view of sheet flow discharging to the ocean at Pier 43.

Photo 3: Additional view of sheet flow discharging to the ocean at Pier 43. Sheet flow appeared slightly murky which may be a result of exposed areas located upgradient.

Photo 4: Additional view of sheet flow discharging to the ocean at Pier 43.

Photo 5: Additional view of sheet flow discharging to the ocean at Pier 43.

Photo 6: View of murky brown water at Pier 43.

Attachment C.

Cityworks® Outfall Reconnaissance Inspection Reports

Inspection 13405

Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO41, Pier 41 **Inspected By:** Iannaccio, Chelsea

Projected Start: 1/25/2021 11:13:00AM

Projected Finish: 2/3/2021 11:13:40AM

Initiated By: Zhang, Ying J

Initiated Date: 2/11/2020 1:11:15PM

Actual Finish: 2/3/2021 11:29:11AM

Insp. Date: 1/25/2021 12:00:00PM

Closed By: Iannaccio, Chelsea

Date Closed: 2/3/2021 11:29:11AM

Work Order Id:

Observation:

Repairs:

Recommendation:

Inspection 13405
Storm Outfall Reconnaissance

Status: CLOSED

Priority: 3 **Location:** HO41, Pier 41 **Inspected By:** Iannaccio, Chelsea

QUESTION	ANSWER	INSTRUCTION	EXPLANATION
Inaccessible	UNCHECK		
Inaccessible Reason			
Inspection type	Wet weather		
Additional inspectors	Jacquelyn Corpus		
Temperature (°F)	75		
Rainfall (in.) last 24 hours	0		
Rainfall (in.) last 48 hours	0		
GPS unit	N/A		
GPS landmark	N/A		
Camera	ETC XP		
Photo #s		If not attaching directly	
Land use in drainage area	Other	KIWC New Kapalama Container Terminal Construction Site	
Location	Closed pipe		
Material	RCP		
Shape	Box		
Configuration	Single		
Diameter	108" x 96"		
Submerged in water	Fully		
Submerged with sediment	No		
Material			
Shape			
Depth			
Top width			
Bottom width			
Flow present	Yes		
Flow description (if present)	Constant moderate		
Flow # 1 Volume (ml)	N/A		
Flow # 1 Time to fill (sec.)	N/A		
Flow #2 Flow depth (in.)	N/A		

Priority: 3 **Location:** HO41, Pier 41 **Inspected By:** Iannaccio, Chelsea

Flow #2 Flow width (in.)	N/A		
Flow #2 Measured length (in.)	N/A		
Flow #2 Time of travel (sec.)	N/A		
Temperature (°F)	N/A		
pH	N/A		
Ammonia (ppm)	N/A		
Physical indicators present in the flow	Yes		
Odor	None		
Odor relative severity index			
Color	Brown		
Color relative severity index	2 - Clearly visible in sample bottle		
Turbidity relative severity index	1 - Slight cloudiness		
Floatables (not including trash)	Petroleum (oil sheen)		
Floatables relative severity index	1 - Few / slight; origin not obvious		
Description of discharge source	Upgradient parking lot and roadway (C&C Honolulu MS4)		
Illicit discharge	Yes	If yes, categorize as "Obviou s" and create Illicit Dischage Investigation SR and WO	
Other observations	Trash and Vegetation (grass clippings)		
Nonflow-related physical indicators present	Yes		
Outfall damage	None		
Deposits / stains	Oily		
Deposits / stains	Sediment		
Deposits / stains	Trash		
Abnormal vegetation	Inhibited		
Poor pool quality	Oil sheen		
Pipe benthic growth	None		

Priority: 3 **Location:** HO41, Pier 41 **Inspected By:** Iannaccio, Chelsea

Other observations			
Overall outfall characterization	Obvious		
Non-illicit discharge concerns (e.g., trash or needed infrastructure repairs)	Trash		

Inspection 13406

Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO41, Pier 41 **Inspected By:** Iannaccio, Chelsea

Projected Start: 1/25/2021 1:11:00PM

Projected Finish: 2/3/2021 11:11:24AM

Initiated By: Zhang, Ying J

Initiated Date: 2/11/2020 1:11:15PM

Actual Finish: 2/11/2021 1:10:00PM

Insp. Date: 1/25/2021 12:00:00PM

Closed By: Iannaccio, Chelsea

Date Closed: 2/11/2021 1:10:00PM

Work Order Id:

Observation:

Repairs:

Recommendation:

Inspection 13406
Storm Outfall Reconnaissance

Status: CLOSED

Priority: 3 **Location:** HO41, Pier 41 **Inspected By:** Iannaccio, Chelsea

QUESTION	ANSWER	INSTRUCTION	EXPLANATION
Inaccessible	CHECKED		
Inaccessible Reason	Vegetation cover made outfall inaccessible to view.		
Inspection type	Wet weather		
Additional inspectors	Jacquelyn Corpus		
Temperature (°F)	75		
Rainfall (in.) last 24 hours	0		
Rainfall (in.) last 48 hours	0		
GPS unit	N/A		
GPS landmark	N/A		
Camera	ETC XP		
Photo #s		If not attaching directly	
Land use in drainage area	Other	KIWC New Kapalama Container Terminal Construction Site	
Location	Closed pipe		
Material	RCP		
Shape	Circular		
Configuration	Single		
Diameter	24"		
Submerged in water		Unable to identify due to vegetation cover.	
Submerged with sediment		Unable to identify due to vegetation cover.	
Material			
Shape			
Depth			
Top width			
Bottom width			
Flow present		Unable to identify due to vegetation cover.	
Flow description (if present)		Unable to identify due to vegetation cover.	
Flow # 1 Volume (ml)	N/A		

Priority: 3 **Location:** HO41, Pier 41 **Inspected By:** Iannaccio, Chelsea

Flow # 1 Time to fill (sec.)	N/A		
Flow #2 Flow depth (in.)	N/A		
Flow #2 Flow width (in.)	N/A		
Flow #2 Measured length (in.)	N/A		
Flow #2 Time of travel (sec.)	N/A		
Temperature (°F)	N/A		
pH	N/A		
Ammonia (ppm)	N/A		
Physical indicators present in the flow		Unable to identify due to vegetation cover.	
Odor			
Odor relative severity index			
Color			
Color relative severity index			
Turbidity relative severity index			
Floatables (not including trash)			
Floatables relative severity index			
Description of discharge source			
Illicit discharge		If yes, categorize as "Obviou s" and create Illicit Dischage Investigation SR and WO	
Other observations			
Nonflow-related physical indicators present		Unable to identify due to vegetation cover.	
Outfall damage			
Deposits / stains			
Abnormal vegetation			
Poor pool quality			
Pipe benthic growth			
Other observations			

Priority: 3 **Location:** HO41, Pier 41 **Inspected By:** Iannaccio, Chelsea

Overall outfall characterization		Unable to characterize due to vegetation cover.	
Non-illicit discharge concerns (e.g., trash or needed infrastructure repairs)	Trash		

Inspection 13408

Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO41, Pier 41 **Inspected By:** Iannaccio, Chelsea

Projected Start: 1/25/2021 11:25:00AM

Projected Finish: 2/3/2021 11:25:37AM

Initiated By: Zhang, Ying J

Initiated Date: 2/11/2020 1:11:15PM

Actual Finish: 2/11/2021 1:12:15PM

Insp. Date: 1/25/2021 11:17:00AM

Closed By: Iannaccio, Chelsea

Date Closed: 2/11/2021 1:12:15PM

Work Order Id:

Observation:

Repairs:

Recommendation:

Inspection 13408
Storm Outfall Reconnaissance

Status: CLOSED

Priority: 3 **Location:** HO41, Pier 41 **Inspected By:** Iannaccio, Chelsea

QUESTION	ANSWER	INSTRUCTION	EXPLANATION
Inaccessible	UNCHECK		
Inaccessible Reason			
Inspection type	Wet weather		
Additional inspectors	Jacquelyn Corpus		
Temperature (°F)	75		
Rainfall (in.) last 24 hours	0		
Rainfall (in.) last 48 hours	0		
GPS unit	0		
GPS landmark	0		
Camera	ETC XP		
Photo #s		If not attaching directly	
Land use in drainage area	Other	KIWC New Kapalama Container Terminal Construction Site	
Location	Closed pipe		
Material	RCP		
Shape	Circular		
Configuration	Single		
Diameter	16"		
Submerged in water	Partially		
Submerged with sediment	No		
Material			
Shape			
Depth			
Top width			
Bottom width			
Flow present	Yes		
Flow description (if present)	Constant moderate		
Flow # 1 Volume (ml)	N/A		
Flow # 1 Time to fill (sec.)	N/A		
Flow #2 Flow depth (in.)	N/A		

Priority: 3 **Location:** HO41, Pier 41 **Inspected By:** Iannaccio, Chelsea

Flow #2 Flow width (in.)	N/A		
Flow #2 Measured length (in.)	N/A		
Flow #2 Time of travel (sec.)	N/A		
Temperature (°F)	N/A		
pH	N/A		
Ammonia (ppm)	N/A		
Physical indicators present in the flow	Yes		
Odor	None		
Odor relative severity index			
Color	Brown		
Color relative severity index	3 - Clearly visible in outfall flow		
Turbidity relative severity index	2 - Cloudy		
Floatables (not including trash)	None		
Floatables relative severity index			
Description of discharge source	Possibly from exposed areas at the construction site.		
Illicit discharge	Yes	If yes, categorize as "Obviou s" and create Illicit Dischage Investigation SR and WO	
Other observations			
Nonflow-related physical indicators present	Yes		
Outfall damage	None		
Deposits / stains	Sediment		
Deposits / stains	Trash		
Abnormal vegetation	None		
Poor pool quality	Oil sheen		
Pipe benthic growth	None		
Other observations			
Overall outfall characterization	Obvious		

Priority: 3 **Location:** HO41, Pier 41 **Inspected By:** Iannaccio, Chelsea

Non-illicit discharge concerns (e.g., trash or needed infrastructure repairs)	Trash		

Inspection 13410

Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO41 **Inspected By:** ,Pi i Peerl an co@oP

Projected Start: 1s 0s 2l 1 11/42/22M5

Projected Finish: l s3s 2l 1 11/42/42M5

Initiated By: ZcPi gaYri g J

Initiated Date: l s11s 2l 2 1/11/10: 5

Actual Finish: l s11s 2l 1 1/14/3A: 5

Insp. Date: 1s 0s 2l 1 11/3l /22M5

Closed By: ,Pi i Peerl an co@oP

Date Closed: l s11s 2l 1 1/14/3A: 5

Work Order Id:

Observation:

Repairs:

Recommendation:

Inspection 13410
Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO41 **Inspected By:** ,Pi i Peerl an coCoP

QUESTION	ANSWER	INSTRUCTION	EXPLANATION
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,i Peeohhrb© VoPhl i			
,i ht oevrl i vmt o	d ovu oPvcow		
M. . rvrl i PCi ht oevl vm	JPepyo©i n l wryh		
Wóq t ovPvyvo T(° F	A0		
VPri fPCCTri)F©Phvl 4 cl ywm	2		
VPri fPCCTri)F©Phv47 cl ywm	2		
8 : Gyi rv	KsM		
8 : G©Pi . q PvS	KsM		
n Pq ovP	DWh N:		
: cl vl kh		,f i l vPwPecri g . rvoev©n	
XPi . yho ri . vPri Pgo PvoP	Ovcow	R,d n Kou RPt P©Pq P n l i vPri owWóvq ri PC n l i hwyevrl i Grvo	
Xl ePvrl i	n©ho. t rt o		
5 PvowPC	Vn:		
GcPt o	n rveyCPw		
n l i frgyvPvrl i	Gri g©		
# rPq ovow	1l L		
Gybq ovgo. ri u Pvow	° y©n		
Gybq ovgo. u rvc ho. rq oi v	Kl		
5 PvowPC			
GcPt o			
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° ©u k 1 Ul Qyq o Tq ©F	KsM		
° ©u k 1 Wq o vl frCCThoe)F	KsM		
° ©u kl ° ©u . ot vc Tri)F	KsM		

Inspection 13410
Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO41 **Inspected By:** ,Pi i Peerl an coCoP

°Cu kl °Cu ur. vc Tri)F	KsM		
°Cu kl 5 oPhywo. Coi gvc Tri) F	KsM		
°Cu kl Wq o l f wPBoCThoe)F	KsM		
Wq t ovPvywo T(°F	KsM		
t H	KsM		
Mq q l i rP Tt t q F	KsM		
: cmhrePCi . rePVl vh t wohoi v ri vco fCu	Yoh		
O. l w	Kl i o		
O. l wwoCPvBo hoBowvmri . ox			
n l Cw	" wui		
n l CwwoCPvBo hoBowvmri . ox	3 zn CPvCnBhrbC ri l yvfPCfCu		
Wyvbr. rvmwoCPvBo hoBowvm ri . ox	l zn Cy. m		
°CPvPbCh Ti l vri eCy. ri g wPhcF	Kl i o		
°CPvPbCh woCPvBo hoBowvm ri . ox			
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,Cerv. rhecPvgo	Yoh	,f mohaePvogl vr-o Ph LObBrl y hLPi . evoPvo ,Cerv# rhecPgo ,i BohvgPvrl i GV Pi . d O	
Ovcowl bhovBPvrl i h	UogovPvrl i TgvPhhaCPBohFPi . WPhc		
Kl i fCu zwoCPvo. t cmhrePC ri . rePVl vh t wohoi v	Yoh		
OyvfPCC Pq Pgo	Kl i o		
# ot l hrvh shvPri h	Go. rq oi v		
# ot l hrvh shvPri h	WPhc		
Mbi l wq PCBogovPvrl i	Kl i o		
: l l wt l l CpyPCm	Kl i o		
: rt o boi vcre gwvu vc	Kl i o		
Ovcowl bhovBPvrl i h			

Inspection 13410

Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO41 **Inspected By:** ,Pi i Peerl an coCoP

OBowPCl yvfPCC ecPwPevow- Pvrl i	ObBrl yh		
KI i zrCCerv. rhecPvgo el i eowi h To)g)awPhc I w i oo. o. ri fwPhwyevywo wot PnwnF	WWPhc		

Inspection 13409

Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO42, Pier 42 **Inspected By:** Iannaccio, Chelsea

Projected Start: 1/25/2021 12:49:00PM

Projected Finish: 2/3/2021 12:49:11PM

Initiated By: Zhang, Ying J

Initiated Date: 2/11/2020 1:11:15PM

Actual Finish: 2/11/2021 1:16:19PM

Insp. Date: 1/25/2021 12:46:00PM

Closed By: Iannaccio, Chelsea

Date Closed: 2/11/2021 1:16:19PM

Work Order Id:

Observation:

Repairs:

Recommendation:

Priority: 3 **Location:** HO42, Pier 42 **Inspected By:** Iannaccio, Chelsea

QUESTION	ANSWER	INSTRUCTION	EXPLANATION
Inaccessible	UNCHECK		
Inaccessible Reason			
Inspection type	Wet weather		
Additional inspectors	Jacquelyn Corpus		
Temperature (°F)	75		
Rainfall (in.) last 24 hours	0		
Rainfall (in.) last 48 hours	0		
GPS unit	N/A		
GPS landmark	N/A		
Camera	ETC XP		
Photo #s		If not attaching directly	
Land use in drainage area	Other	KIWC New Kapalama Container Terminal Construction Site	
Location	Closed pipe		
Material	RCP		
Shape	Circular		
Configuration	Single		
Diameter	18"		
Submerged in water	Partially		
Submerged with sediment	No		
Material			
Shape			
Depth			
Top width			
Bottom width			
Flow present	Yes		
Flow description (if present)	Constant moderate		
Flow # 1 Volume (ml)	N/A		
Flow # 1 Time to fill (sec.)	N/A		
Flow #2 Flow depth (in.)	N/A		

Priority: 3 **Location:** HO42, Pier 42 **Inspected By:** Iannaccio, Chelsea

Flow #2 Flow width (in.)	N/A		
Flow #2 Measured length (in.)	N/A		
Flow #2 Time of travel (sec.)	N/A		
Temperature (°F)	N/A		
pH	N/A		
Ammonia (ppm)	N/A		
Physical indicators present in the flow	No	Skip to Section 5	
Odor			
Odor relative severity index			
Color			
Color relative severity index			
Turbidity relative severity index			
Floatables (not including trash)			
Floatables relative severity index			
Description of discharge source			
Illicit discharge		If yes, categorize as "Obviou s" and create Illicit Dischage Investigation SR and WO	
Other observations			
Nonflow-related physical indicators present	No	Skip to Section 6	
Outfall damage			
Deposits / stains			
Abnormal vegetation			
Poor pool quality			
Pipe benthic growth			
Other observations			
Overall outfall characterization	Unlikely		

Priority: 3 **Location:** HO42, Pier 42 **Inspected By:** Iannaccio, Chelsea

Non-illicit discharge concerns (e.g., trash or needed infrastructure repairs)			

Inspection 13413

Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO41 **Inspected By:** ,Pi i Peerl an co©oP

Projected Start: sI10I121s s1/0M22: 5

Projected Finish: 1I3I121s s1/0M0s: 5

Initiated By: 7cPi Zagri Z Y

Initiated Date: 1IssI1212 s/ss/s0: 5

Actual Finish: 1IssI121s s/sA/04: 5

Insp. Date: sI10I121s s1/0s/22: 5

Closed By: ,Pi i Peerl an co©oP

Date Closed: 1IssI121s s/sA/04: 5

Work Order Id:

Observation:

Repairs:

Recommendation:

Inspection 13413
Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO41 **Inspected By:** ,Pi i Peerl an coCoP

QUESTION	ANSWER	INSTRUCTION	EXPLANATION
,i Peeohhrf ©	b Un HNn E		
,i Peeohhrf © KoPhl i			
,i hRoepl i pt Ro	y opWoPpcow		
d qqrpl i POi hRoepl vm	YPeuToCi n l wRTh		
mo(RovPpTwo °F) .	M0		
KPri JPC°ri 8 CPhp14 cl Twm	2		
KPri JPC°ri 8 CPhp4Gcl Twm	2		
S: k Ti rp	Uld		
S: k CPi q(PwX	Uld		
n P(owP	Nmm #:		
: cl pl Lh		,Ji l pPpPecri Z qrwoepC	
DPi q Tho ri qwPri PZo PwoP	Opcow	E,y n UoWEPRPCP(P n l i pPri ownow(ri PC n l i hpwTepl i kmpo	
Dl ePpl i	ORoi RtRo		
5 PpowPC	k pooC		
k cPRo	n rweTCPw		
n l i JZTwPpl i	k ri ZC		
6 rP(opow	4"		
k Tf (owZoq ri WPpow	) TCC		
k Tf (owZoq Wrpc hoqr(oi p	Ul		
5 PpowPC	Opcow		
k cPRo	Opcow		
6 oRpc			
ml R Wrqpc			
Bl pl (Wrqpc			
) CWRwohoi p	Ul	k XrRpl k oepl i 0	
) CWqohewRpl i °rJRwohoi p			
) CWL s Vl CT(o °(C	Uld		
) CWL s mr(o pl JC°hoe8	Uld		
) CWL1) CWqoRpc °ri 8	Uld		

Inspection 13413

Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO41 **Inspected By:** ,Pi i Peerl an coCoP

) CWL1) CWWqpc °ri 8	Uld		
) CWL1 5 oPhTwoq Coi Zpc °ri 8 .	Uld		
) CWL1 mr(o l JpwPvoC°hoe8	Uld		
mo(RovPpTwo °F) .	Uld		
RH	Uld		
d((l i rP °RR(.	Uld		
: ct hrePCi qrePpl vh Rvohoi p ri pco JCW	Ul	kXrRpl koepl i 0	
Oql w			
Oql wwoCPpvo hovowpt ri qox			
n l Cw			
n l CwwoCPpvo hovowpt ri qox			
mTwi rqrpt woCPpvo hovowpt ri qox			
) CPpPf Coh °i l pri eCTqri Z pwPhc.			
) CPpPf Coh woCPpvo hovowpt ri qox			
6 ohewRpl i l JqrhecPwZo hl Tweo			
,CCerpqrhecPwZo	Ul		
Opcowl f howPpl i h			
Ul i JCW-woCPpoq Rct hrePC ri qrePpl vh Rvohoi p	Ul	kXrRpl koepl i A	
OTpPCCqP(PZo			
6 oRl hrph l hpPri h			
d f i l w(PCvoZopPpl i			
: l l wRl l CuTPCpt			
: rRo f oi pcre ZwWpc			
Opcowl f howPpl i h			
OvowPCCl TpPCC ecPwPepowzPpl i	bi CXoC		
Ul i -rCCerpqrhecPwZo el i eowi h °o8Z8apwPhc l w i ooqoq ri JwPhpwTepTwo woRPrwh.			

Inspection 13413

Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO41 **Inspected By:** ,Pi i Peerl an coCoP

Inspection 13412

Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO41, Pier 42 **Inspected By:** Iannaccio, Chelsea

Projected Start: 1/25/2021 1:10:00PM

Projected Finish: 2/3/2021 1:10:47PM

Initiated By: Zhang, Ying J

Initiated Date: 2/11/2020 1:11:15PM

Actual Finish: 2/11/2021 1:17:40PM

Insp. Date: 1/25/2021 12:59:00PM

Closed By: Iannaccio, Chelsea

Date Closed: 2/11/2021 1:17:40PM

Work Order Id:

Observation:

Repairs:

Recommendation:

Priority: 3 **Location:** HO41, Pier 42 **Inspected By:** Iannaccio, Chelsea

QUESTION	ANSWER	INSTRUCTION	EXPLANATION
Inaccessible	UNCHECK		
Inaccessible Reason			
Inspection type	Wet weather		
Additional inspectors	Jacquelyn Corpus		
Temperature (°F)	75		
Rainfall (in.) last 24 hours	0		
Rainfall (in.) last 48 hours	0		
GPS unit	N/A		
GPS landmark	N/A		
Camera	ETC XP		
Photo #s		If not attaching directly	
Land use in drainage area	Other	KIWC New Kapalama Container Terminal Construction Site	
Location	Closed pipe		
Material	RCP		
Shape	Circular		
Configuration	Single		
Diameter	24"		
Submerged in water	Fully		
Submerged with sediment	No		
Material			
Shape			
Depth			
Top width			
Bottom width			
Flow present	No	Skip to Section 5	
Flow description (if present)			
Flow # 1 Volume (ml)	N/A		
Flow # 1 Time to fill (sec.)	N/A		
Flow #2 Flow depth (in.)	N/A		

Priority: 3 **Location:** HO41, Pier 42 **Inspected By:** Iannaccio, Chelsea

Flow #2 Flow width (in.)	N/A		
Flow #2 Measured length (in.)	N/A		
Flow #2 Time of travel (sec.)	N/A		
Temperature (°F)	N/A		
pH	N/A		
Ammonia (ppm)	N/A		
Physical indicators present in the flow	Yes		
Odor	None		
Odor relative severity index			
Color	Brown		
Color relative severity index	3 - Clearly visible in outfall flow		
Turbidity relative severity index	2 - Cloudy		
Floatables (not including trash)			
Floatables relative severity index			
Description of discharge source			
Illicit discharge	Yes	If yes, categorize as "Obviou s" and create Illicit Dischage Investigation SR and WO	
Other observations			
Nonflow-related physical indicators present	Yes		
Outfall damage			
Deposits / stains	Sediment		
Abnormal vegetation	None		
Poor pool quality	None		
Pipe benthic growth	None		
Other observations			
Overall outfall characterization	Obvious		

Priority: 3 **Location:** HO41, Pier 42 **Inspected By:** Iannaccio, Chelsea

Non-illicit discharge concerns (e.g., trash or needed infrastructure repairs)	Trash		

Inspection 13411

Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO41, Pier 42 **Inspected By:** Iannaccio, Chelsea

Projected Start: 1/25/2021 1:20:00PM

Projected Finish: 2/3/2021 1:20:13PM

Initiated By: Zhang, Ying J

Initiated Date: 2/11/2020 1:11:15PM

Actual Finish: 2/11/2021 1:22:07PM

Insp. Date: 1/25/2021 1:13:00PM

Closed By: Iannaccio, Chelsea

Date Closed: 2/11/2021 1:22:07PM

Work Order Id:

Observation:

Repairs:

Recommendation:

Priority: 3 **Location:** HO41, Pier 42 **Inspected By:** Iannaccio, Chelsea

QUESTION	ANSWER	INSTRUCTION	EXPLANATION
Inaccessible	UNCHECK		
Inaccessible Reason			
Inspection type	Wet weather		
Additional inspectors	Jacquelyn Corpus		
Temperature (°F)	75		
Rainfall (in.) last 24 hours	0		
Rainfall (in.) last 48 hours	0		
GPS unit	N/A		
GPS landmark	N/A		
Camera	ETC XP		
Photo #s		If not attaching directly	
Land use in drainage area	Other	KIWC New Kapalama Container Terminal Construction Site	
Location	Closed pipe		
Material	RCP		
Shape	Circular		
Configuration	Single		
Diameter	24"		
Submerged in water	Fully		
Submerged with sediment	No		
Material			
Shape			
Depth			
Top width			
Bottom width			
Flow present	Yes		
Flow description (if present)	Constant moderate		
Flow # 1 Volume (ml)	N/A		
Flow # 1 Time to fill (sec.)	N/A		
Flow #2 Flow depth (in.)	N/A		

Priority: 3 **Location:** HO41, Pier 42 **Inspected By:** Iannaccio, Chelsea

Flow #2 Flow width (in.)	N/A		
Flow #2 Measured length (in.)	N/A		
Flow #2 Time of travel (sec.)	N/A		
Temperature (°F)	N/A		
pH	N/A		
Ammonia (ppm)	N/A		
Physical indicators present in the flow	Yes		
Odor	None		
Odor relative severity index			
Color	Brown		
Color relative severity index	3 - Clearly visible in outfall flow		
Turbidity relative severity index	2 - Cloudy		
Floatables (not including trash)	None		
Floatables relative severity index	2 - Some; indications of origin (eg posssible suds or oil sheen)		
Description of discharge source	Potentially from exposed areas of the construction site.		
Illicit discharge	Yes	If yes, categorize as "Obviou s" and create Illicit Dischage Investigation SR and WO	
Other observations			
Nonflow-related physical indicators present	Yes		
Outfall damage	None		
Deposits / stains	Sediment		
Deposits / stains	Trash		
Abnormal vegetation	None		
Poor pool quality	None		
Pipe benthic growth	None		
Other observations			

Inspection 13411

Storm Outfall Reconnaissance

Status: CLOSED

Priority: 3 **Location:** HO41, Pier 42 **Inspected By:** Iannaccio, Chelsea

Overall outfall characterization	Obvious		
Non-illicit discharge concerns (e.g., trash or needed infrastructure repairs)	Trash		

Inspection 13406

Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO432, Pi er lanr i coCanr **Inspected By:** Isnns/ / ai 21 Pr lOr s

Projected Start:	5:06:0M05 59DY9MMZg	**Projected Finish:**	0:55:0M05 59DY9MrZg
Initiated By:	f Psnb2Uanb N	**Initiated Date:**	0:55:0M0M 595559 56Zg
Actual Finish:	0:55:0M05 59DY96JZg		
Insp. Date:	5:06:0M05 509MM9MMZg		
Closed By:	Isnns/ / ai 21 Pr lOr s	**Date Closed:**	0:55:0M05 59DY96JZg
Work Order Id:			
Observation:			
Repairs:			
Recommendation:			

Inspection 13406

Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO432, Pi er lanr i coCahr **Inspected By:** Isnns//ai 21 PrIOrs

QUESTION	ANSWER	INSTRUCTION	EXPLANATION
Ins//rOCaKlr	Rp 1 Ht 1 y		
Ins//rOCaKlr WrsCln			
InOwr/oain oAwr	d roqrsoPre		
uhhaoainsIanOwr/oieC	Ns/TcrIAn 1 i ewcC		
mr(wresocer °F) 7	. 6		
WsanEsII °an87IsCo04 PiceC	M		
WsanEsII °an87IsCo4GPiceC	M		
SZ, cnao	p:u		
SZ, Isnh(sek	p:u		
1s(res	t m1 XZ		
ZPi oi #C		IEni osoos/Panb haar/dA	
Lsnh cOr an hesansbr sers	OdPre	DrO'eaKr	
Li/soain	1 li Or h waar		
g sorees I	, orr I		
, Pswr	1 ae/clse		
1 i nEabcesoain	, anblr		
Das(rore	50"		
, cK(rebr h an qsore	ZseasIIA		
, cK(rebr h qanP Or ha(rno	p i		
g sorees I			
, Pswr			
DrwdP			
miwqandP			
Bi ooi (qandP			
) li q wer Or no			
) li q hr O'eawoain °aEwer Or no7			
) li q # 5 Vi lc(r °(I7	p:u		
) li q # 5 ma(r oi Eal °Or/87	p:u		
) li q #0) li q hr wdP °an87	p:u		
) li q #0) li q qandP °an87	p:u		

Inspection 13406

Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO432, Pi er lanr i coCahr **Inspected By:** Isnns/ / ai 21 Pr lOr s

) li q #0 g r sOcer h lr nbdP °an8 7	p :u		
) li q #0 ma(r i Eoesvr l °Or / 87	p :u		
mr (wr esocer °F) 7	p :u		
wH	p :u		
u((i nas °ww(7	p :u		
ZPAOalsl anhalsoieOwerOr no anoPr Eli q	pi	, kawoi , r / oain 6	
Ohi e			
Ohi eer lsoavr Or vr eaoAanhr x			
1 i li e			
1 i li eer lsoavr Or vr eaoAanhr x			
mceKahaoAer lsoavr Or vr eaoA anhr x			
) li sosKlr C °ni oan/ lchanb oesOP7			
) li sosKlr Cer lsoavr Or vr eaoA anhr x			
Dr O/ eawoain i EhaO/ Psebr Ol ce/ r			
Illalaohao/ Psebr		IEArC2/ sor bi eazr sC"OKvai c C' snh / er sor Illalaoi DaO/ Psbr Invr Oabsoain , Wsnh d O	
OoPr ei KOr evsoainC			
pi nEiq-er lsor h wPAOalsl anhalsoieOwerOr no	pi	, kawoi , r / oain J	
OoOsll hs(sbr			
Dr wi OaoC: Oosan C			
uKni e(sl vr br osoain			
Zi i ewi i l TcslaoA			
Zawr Kr noPal bei qoP			
OoPr ei KOr evsoainC			
Ovr esll i coOsll / Psesl/ or eazsoain	RnlakrlA		
pi n-alalaohao/ Psebr / i n/ r enC °r 8o 82oesOP i e nr r hr h anEesOoc/ ocer er wsaoC7	mesOP		

Inspection 13414
Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO41 **Inspected By:** Iannaccio, Chelsea

Projected Start: 1/25/2021 12:26:00PM
Projected Finish:
Initiated By: Zhang, Ying J
Initiated Date: 2/11/2020 1:11:15PM
Actual Finish: 2/11/2021 1:15:06PM
Insp. Date: 1/25/2021 11:50:00AM
Closed By: Iannaccio, Chelsea
Date Closed: 2/11/2021 1:15:06PM
Work Order Id:
Observation:
Repairs:
Recommendation:

Inspection 13414
Storm Outfall Reconnaissance

Status: CLOSED

Priority: 3 **Location:** HO41 **Inspected By:** Iannaccio, Chelsea

QUESTION	ANSWER	INSTRUCTION	EXPLANATION
Inaccessible	UNCHECK		
Inaccessible Reason			
Inspection type	Wet weather		
Additional inspectors	Jacquelyn Corpus		
Temperature (°F)	75		
Rainfall (in.) last 24 hours	0		
Rainfall (in.) last 48 hours	0		
GPS unit	N/A		
GPS landmark	N/A		
Camera	ETC XP		
Photo #s		If not attaching directly	
Land use in drainage area	Other	KIWC New Kapalama Container Terminal Construction Site	
Location	Closed pipe		
Material	RCP		
Shape	Circular		
Configuration	Single		
Diameter	12"		
Submerged in water	Fully		
Submerged with sediment	No		
Material			
Shape			
Depth			
Top width			
Bottom width			
Flow present	Yes		
Flow description (if present)	Constant moderate		
Flow # 1 Volume (ml)	N/A		
Flow # 1 Time to fill (sec.)	N/A		
Flow #2 Flow depth (in.)	N/A		

Priority: 3 **Location:** HO41 **Inspected By:** Iannaccio, Chelsea

Flow #2 Flow width (in.)	N/A		
Flow #2 Measured length (in.)	N/A		
Flow #2 Time of travel (sec.)	N/A		
Temperature (°F)	N/A		
pH	N/A		
Ammonia (ppm)	N/A		
Physical indicators present in the flow	Yes		
Odor	None		
Odor relative severity index			
Color	Brown		
Color relative severity index	3 - Clearly visible in outfall flow		
Turbidity relative severity index	2 - Cloudy		
Floatables (not including trash)	Petroleum (oil sheen)		
Floatables relative severity index	2 - Some; indications of origin (eg posssible suds or oil sheen)		
Description of discharge source	Potentially from exposed areas at the construction site.		
Illicit discharge	Yes	If yes, categorize as "Obviou s" and create Illicit Dischage Investigation SR and WO	
Other observations			
Nonflow-related physical indicators present	Yes		
Outfall damage	None		
Deposits / stains	Sediment		
Deposits / stains	Trash		
Abnormal vegetation	None		
Poor pool quality	Oil sheen		
Pipe benthic growth	None		
Other observations			

Inspection 13414

Storm Outfall Reconnaissance

Status: CLOSED

Priority: 3 **Location:** HO41 **Inspected By:** Iannaccio, Chelsea

Overall outfall characterization	Obvious		
Non-illicit discharge concerns (e.g., trash or needed infrastructure repairs)	Trash		

Inspection 13415

Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO41 **Inspected By:** ,Pi i Peer2I a ncoOcP

Projected Start: 1Ih0Ihsh1 1h/43/ss: 5

Projected Finish:

Initiated By: 7nPi 9I Zri 9 g

Initiated Date: hI11Ihshs 1/11/10: 5

Actual Finish: hI11Ihsh1 1/10/4s: 5

Insp. Date: 1Ih0Ihsh1 1h/hMss: 5

Closed By: ,Pi i Peer2I a ncoOcP

Date Closed: hI11Ihsh1 1/10/4s: 5

Work Order Id:

Observation:

Repairs:

Recommendation:

Inspection 13415

Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO41 **Inspected By:** ,Pi i Peer2I a ncoOcP

QUESTION	ANSWER	INSTRUCTION	EXPLANATION
,i PeecCO:Jcc	f b a HUa N		
,i PeecCO:Jcc EcPC2i			
,i CKceR2i RpKc	t cRy cPRncW		
wAArR2i Pori CKceR2WC	gPedqcqpi a 2WKqC		
ucT KcWPRqWr n(i° F	) 0		
EPri YPoorni .FdPCRh4 n2qWC	s		
EPri YPoorni .FdPCR48 n2qWC	s		
G: S qi rR	b lw		
G: S dPi AT PWr	b lw		
a PT cWP	Uua X:		
: n2R2 #C		,Yi 2RPRRenri 9 ArWeRp	
LPi A qCc ri AWPri P9c PWP	ORncW	N,t a b cy NPKPdPT P a 2i RRri cWucWT ri Po a 2i CRWeR2i SrRc	
L2ePR2i	a c2CcA KrKc		
5 PRcWPo	Ea:		
SnPKc	a rWqdPW		
a 2i Y9qWPR2i	Sri 9cc		
DrPT cRcW	h4"		
SqJT cW9cA ri y PRcW	° qcp		
SqJT cW9cA y rRn CcArT ci R	b 2		
5 PRcWPo			
SnPKc			
DcKRn			
u2K y rARn			
B2RR2T y rARn			
° c2y KWCci R	ZcC		
° c2y AcCeWKR2i mYKWCci RF	a 2i CRRi RT 2AcWPRc		
° c2y # 1 V2qT c mT dF	b lw		
° c2y # 1 urT c R2 YomCce.F	b lw		
° c2y #h ° c2y AcKRn mi .F	b lw		

Inspection 13415

Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO41 **Inspected By:** ,Pi i Peer2I a ncoOcP

° o2y #h ° o2y y rARn mi .F	b lw		
° o2y #h 5 cPOqWoA oci 9Rn mi . F	b lw		
° o2y #h urT c 2YRWvcomOce.F	b lw		
ucT KcWRqWo rn° F	b lw		
KH	b lw		
wT T 2i rP rnKKT F	b lw		
: npOrePori ArePR2WOKWOci R ri Rnc Yo2y	ZcC		
OA2W	b 2i c		
OA2WWoPRvc OcvcWRp ri Acx			
a 2o2W	BWoy i		
a 2o2WWoPRvc OcvcWRp ri Acx	3 - a ocPWp vrOJoc ri 2qRPoYo2y		
uqWrArRp WoPRvc OcvcWRp ri Acx	h - a o2qAp		
° o2PRRJocCrn2Rri eoqAri 9 RWOnF	: cRWocqT n2roOncci F		
° o2PRRJocCWoPRvc OcvcWRp ri Acx			
DcOeWKR2i 2YArOenPWVc C2qWc	: 2Rci RPop YWT cxK2OcA PWPCPRRnc e2i ORWeR2i ORc.		
,orRArOenPWVc	ZcC	,YpcOl ePRc92Wzc PC"OJvr2q C' Pi A eWPRc ,orRDrOenP9c ,i vcORPRR2i SE Pi A t O	
ORncW2JOcWPRR2i C			
b 2i Yo2y -WoPRcA KnpOrePo ri ArePR2WOKWOci R			
OqRPoAPT P9c	b 2i c		
DcK2ORCl ORRri C	ScArT ci R		
DcK2ORCl ORRri C	uWROn		
wJi 2WT Povc9cRRR2i	b 2i c		
: 22WK22odqPoRp	OroOncci		
: rKc Jci Rnre 9Wo2y Rn	b 2i c		
ORncW2JOcWPRR2i C			
OvcWRo2qRPo enPWRcWzPRR2i	OJvr2qC		

Inspection 13415

Storm Outfall Reconnaissance

Cityworks

Status: CLOSED

Priority: 3 **Location:** HO41 **Inspected By:** ,Pi i Peer2I a ncoCcP

b 2i -rcerRArCenPWc e2i ecWCm.9.I RPOn 2W i ccAcA ri YPCRqerqW WKPrWF	uWPOn		

Attachment D.

Construction Site Best Management Practices Inspection Checklists and Corrective Actions dated January 27, 2021

Construction Site Best Management Practices Inspection Checklist

Date of Inspection: 2021-01-27	**Project Title:** The New Kapalama Container Terminal	
Contractor: KIWC	**Project Job No.:** HC 10502	**NPDES No.:** HI R10E932
Inspector: B. Ahakuelo	**SWPPP Updated and Onsite:** ☑ Yes ☐ No	**Photographs Attached:** ☑ Yes ☐ No
Inspection Type: ☐ Initial ☑ Recurring ☐ Final ☐ Other		
Weather: Clear		

AC: Adequate Containment
ACoC: Adequate Cover or Containment

		N/A	Control Device(s) Properly Installed		Require Maintenance		Description of Any Findings	Notes
			Yes	No	Yes	No		
1.	Stabilized Construction Ingress/Egress?	☐	☑	☐	☐	☑		
	Vehicular Tracking	☐	☑	☐	☑	☐	Vehicle tracking	Area 1 on the Map
2.	Erosion Control Device(s) - Slopes/Exposed Area	☑	☐	☐	☐	☐		
	Sediment Control (Silt fence, Perimeter sock)	☐	☑	☐	☐	☑		
	Storm Drain Inlet Protection (Fabric filter, Witch's hat)	☐	☑	☐	☐	☑		
3.	Dust Control/Suppressant - Sawcutting/Demolition	☐	☑	☐	☐	☑		
	Concrete Washout Area (AC)	☐	☑	☐	☐	☑		
4.	Vehicle/Equipment Maintenance Area (ACoC)	☐	☑	☐	☐	☑		
	Vehicle/Equipment Cleaning Area (AC)	☐	☑	☐	☐	☑		Secondary containment provided.
	Vehicle/Equipment Fueling Area (AC)	☐	☑	☐	☐	☑		Secondary containment provided.
	Vehicle/Equipment Storage Area (AC)	☐	☑	☐	☐	☑		
5.	Construction Material Storage Area (ACoC)	☐	☑	☐	☐	☑		
	Stockpiles of Aggregate (ACoC)	☐	☑	☐	☐	☑		
6.	Flammable/Fuel Storage Area (ACoC)	☐	☑	☐	☐	☑		
	Hazardous Material Storage (ACoC)	☑	☐	☐	☐	☐		
	Waste Storage Area (ACoC)	☐	☑	☐	☐	☑		
7.	Good Housekeeping Practices (Is project generally free of litter, sediment, etc.?)	☐	☑	☐	☐	☑		
8.	Spill Prevention/Control - Spill Kit	☐	☑	☐	☐	☑		

Major Site Activities (please check any if applicable):
☐ Demolition ☐ Paving ☐ Excavation ☐ Hauling Materials ☐ Concrete Pouring ☑ Other, please specify: Demobilization

If any of the item listed below checked "Yes", please provide detailed information under Additional Notes.

A. Is contaminated soil present? ☐ Yes ☑ No
B. Is sediment basin(s) present? ☐ Yes ☑ No
C. Is any illicit discharge present? ☐ Yes ☑ No
D. Dewatering and/or Hydrotesting - Is this project in compliance with these NPDES storm water permitting requirements? ☐ Yes ☐ No ☑ N/A

B. Ahakuelo
Verified By (HDOT Project Inspector/Engineer's Signature)

1/27/2021
Date

Construction Site Best Management Practices Inspection Checklist

Permanent Post-Construction BMP Inspection			
Please indicate inspection status here:	☐ Initial Inspection	☑ Inspection During Construction Phase	☐ Final Inspection after Installation
Post-construction BMPs are being installed in accordance with construction plans.		☐ Yes ☐ No	☑ N/A
Notes:			

Additional Notes:

A. Management of Contaminated Soil:

B. Control and Maintenance Related to Sediment Basin(s):

C. Evidence of Discharge of Pollutant(s) to State Receiving Waters:

After heavy rain on Monday January 25, 2021, it was observed by others that illicit discharge was present at Phase 2 Project Site. KIWC was informed and they repaired the BMPs on Tuesday January 26, 2021. See attached BMP inspection by KIWC with corrective photos.

D. Summary of Dewatering and/or Hydrotesting Activity (please list permit numbers and verify compliance):

E.

F.

G.

Remarks: This checklist is to be completed before commencement of grading or site-work and then every two weeks from October through March, otherwise, bimonthly. State of Hawaii Department of Transportation Harbors Division will not allow construction activities to commence until the project engineer or qualified project inspector have inspected the construction site and determined that the site-specific BMPs and pollution prevention control measures are implemented properly.

State of Hawaii
Department of Transportation
Harbors Division

LAST UPDATED: 12.02.2020

TMK: 1-2-025-036
(OWNER: SERVCO PACIFIC INC.)

TRUE NORTH
SCALE: 1" = 100'

DEPARTMENT OF AGRICULTURE INSPECTION FACILITY (BY OTHERS)

INSTALL 10' HIGH DUST FENCE AND SILT FENCE ALONG LIMIT OF GRADING/DEMOLITION/DISTURBED AREA (TYP.) SEE SHT. C-228

Downstream drain line disconnected (cut and plug) 5/18

LIMIT OF GRADING/ DISTURBED AREA

Hazmat Connex

LIMIT OF GRADING/ DISTURBED AREA

AUIKI STREET (CITY)

MARY STREET (CITY)

HOE STREET

Stabilized construction entrance installed consists of minimum 16 LF "Cattle Guard" type rumble plates Auiki Street Gate..

LIMIT OF GRADING/ DEMOLITION/DISTURBED AREA

KALIHI STREET (CITY)

SILVA STREET (CITY)

ROAD NO. 2 (STATE)

Bio-Sock Removed 4-12-2019

Not Installed
INSTALL VEHICLE WASHDOWN AREA SEE SHT. C-228

BSAUIKI

6' Dust Fence for Retaining Wall Construction, due to fuel lines directly below fence line a 6' fence could only be braced and stabilized.

INSTALL STABILIZED CONSTRUCTION ENTRANCE SEE SHT. C-228

SC: Washout

LIMIT OF GRADING/ DISTURBED AREA

SC: Fuel Tank & Spill Pit

DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION WEIGH STATION (BY OTHERS)

SC: Diesel Exhaust Fluid

SC: Fuel Skid

TD 1 BIO SOCK

INSTALL FILTER SOCK AT EXISTING CATCH BASINS (TYP.)

DFAUIKI

Lube Connex

Lube Connex

BSSIA

[AREA 1] Vehicle tracking.

TD 2 BIO SOCK

INLETS (TYP.) SEE SHT. C-228

Protect Inlet Headwall with erosion matting and 3ea. 1.5' high aggregate berms

K-RAIL

INSTALL 10' HIGH DUST FENCE AND SILT FENCE ALONG LIMIT OF GRADING/DEMOLITION/DISTURBED AREA (TYP.) SEE DET., SHT. C-228

Raised Cattle Guard Entrance

DFSIA

SEAND ISLAND ACCESS ROAD (STATE)

INSTALL SILT FENCE ALONG LIMIT OF GRADING/ DEMOLITION/DISTURBED AREA (TYP.) SEE DET., SHT. C-228

Silt Fence along Surcharge Pile

PIER 40F

HONOLULU HARBOR

Not Installed
INSTALL VEHICLE WASHDOWN AREA

KEEHI SMALL BOAT HARBOR ACCESS ROAD (STATE)

Double Up Biosock along Harbor Edge

Cattle guard rumble strip construction entrance closed to entry/exit traffic on 7/30/18

INSTALL STABILIZED CONSTRUCTION ENTRANCE SEE SHT. C-228

TD 3 BIO SOCK

Witches Hat w/ Berm

LIMIT OF GRADING/ DEMOLITION/DISTURBED AREA

INSTALL 10' HIGH DUST FENCE AND SILT FENCE ALONG LIMIT OF GRADING/ DEMOLITION/DISTURBED AREA (TYP.) SEE SHT. C-228

Concrete Washout - Paving

Silt Fence along Surcharge Pile Removed 4/12/2019

INSTALL SILT FENCE ALONG LIMIT OF GRADING/ DEMOLITION/ DISTURBED AREA (TYP.) SEE DET., SHT. C-228

Double Up Biosock along Harbor Edge

LIMIT OF GRADING/ DEMOLITION/DISTURBED AREA

PIER 42

BS10498

INSTALL SILT FENCE ALONG LIMIT OF GRADING/DEMOLITION/DISTURBED AREA (TYP.) SEE DET., SHT. C-228

Double Up Biosock along Harbor Edge

PIER 43

HONOLULU HARBOR

Note: Portable concrete washout bins may be utilized for retaining wall pours as long as they are allowed to completely dry and are emptied regularly.

GRAPHIC SCALE:
1" = 100' 100' 50' 0 100' 200'

GENERAL TEMPORARY BMP PLAN – DEMOLITION
SCALE: 1"=100'

LEGEND

- BIOSOCK
- DUST SCREEN
- SECONDARY CONTAINMENT
- WITCHES HAT
- K-RAIL
- EROSION MATTING
- RUMBLE PLATES
- INGRESS/EGRESS
- BIO SOCK CROSSING

NOTES:

1. THE CONTRACTOR SHALL STRICTLY FOLLOW THE NGPC FORM C AND THE HDOT HARBORS DIVISION "CONSTRUCTION SITE RUNOFF CONTROL PROGRAM" FOR THIS PROJECT. SEE ENVIRONMENTAL SPECIFICATION SECTIONS.
2. SEE EROSION CONTROL, BMP, WATER POLLUTION AND GOOD HOUSEKEEPING, AND ENVIRONMENTAL PROTECTION NOTES ON SHEET C-3.
3. FOR BMP'S DURING SITE IMPROVEMENT WORK, SHTS. C-19 AND SHTS. C-141 TO C-147

Total Biosock Installed

2/12/18:	3954 LF
2/13/18:	3583 LF
2/13/18:	2670 LF
12/2/2020:	7120LF

All Witches Hats installed.

REVISION	DATE	DESCRIPTION	BY	APPROVED
2	1/22/17	ADDENDUM 5: REVISED LIMITS OF DEMOLITION; ADDED BMPS AT AUIKI STREET STORAGE ROAD	CWL	
1	1/24/17	ADDENDUM 3: REVISED SILT FENCE	CWL	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HARBORS DIVISION

JOB TITLE: THE NEW KAPALAMA CONTAINER TERMINAL YARD DESIGN AT HONOLULU HARBOR, HAWAII

SHEET TITLE: GENERAL TEMPORARY BMP PLAN – DEMOLITION

SUBMITTED BY: SECTION HEAD
RECOMMENDED BY: ENGINEERING PROGRAM MANAGER
APPROVED BY: HARBORS ADMINISTRATOR

DESIGNED BY: JML, CN, MN, JT
DRAWN BY: JML, CN, MN, JT
CHECKED BY: CL
DATE: NOVEMBER 2016
SCALE: AS SHOWN

JOB NUMBER: H.C. 10502

SHEET C-18
21 of 530 SHTS.

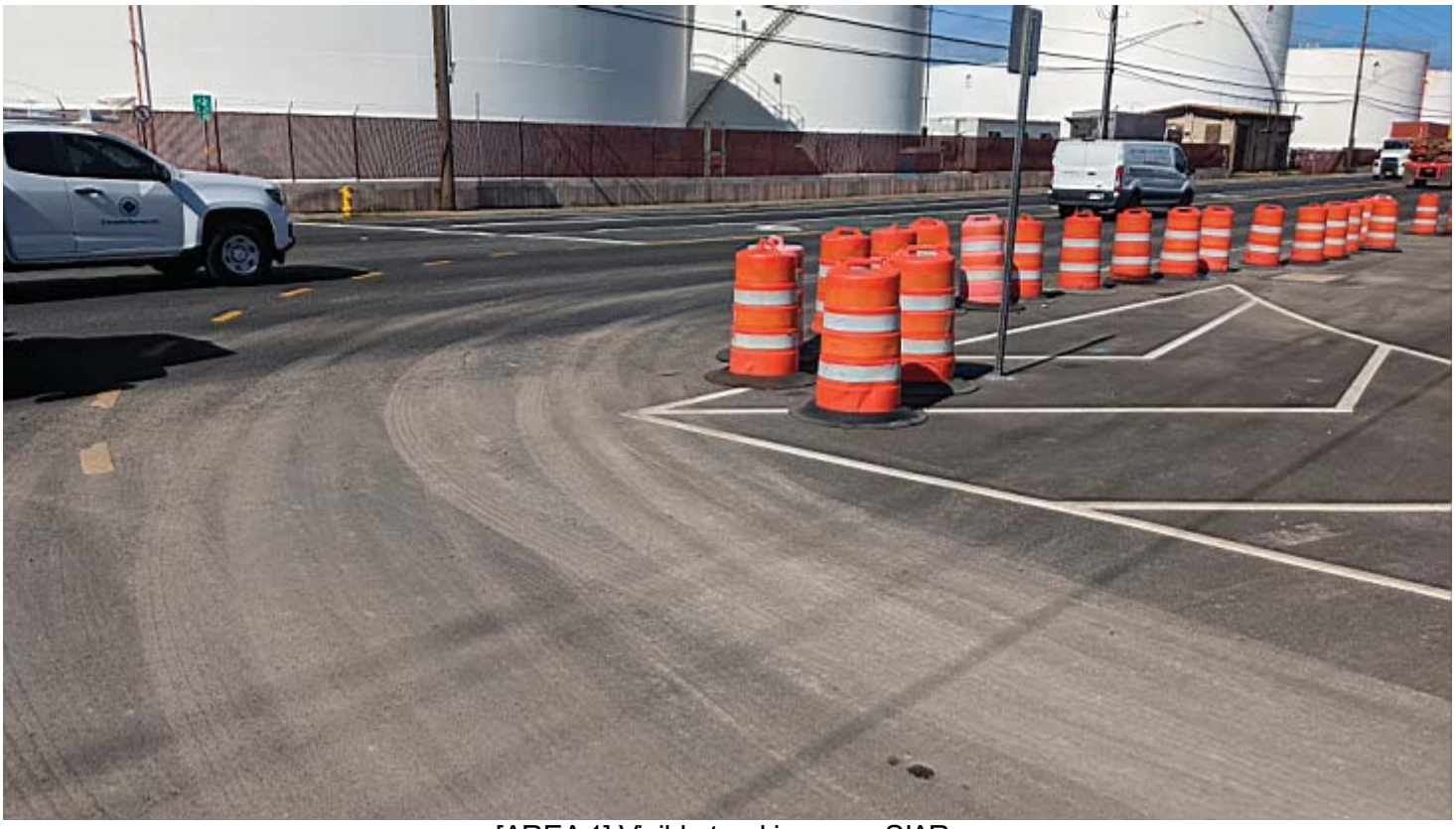
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION BY THE PROJECT WILL BE UNDER MY OBSERVATION. OBSERVATION OF CONSTRUCTION IS DEFINED IN CHAPTER 16-115, HAWAII ADMINISTRATIVE RULES, ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS."

R.M. TOWILL CORPORATION
APRIL 30, 2018
LICENSE EXPIRATION DATE

Sun, 31 May 2017 - 5:06pm
K:\JOB\J02569 Building 253\Craig Luke - Kapalama Container Terminal\dwg\Plans\20 General Temporary BMP - Demolition.dwg

HC 10502 - KAPALAMA CONTAINER TERMINAL YARD
BMP INSPECTION 2021-01-27

View of the stabilized entrance near SIAR.



[AREA 1] Visible tracking near SIAR.

HC 10502 - KAPALAMA CONTAINER TERMINAL YARD
BMP INSPECTION 2021-01-27

View of concrete washout.

View of concrete washout.

HC 10502 - KAPALAMA CONTAINER TERMINAL YARD
BMP INSPECTION 2021-01-27

View of active stockpile. KIWC installed biosocks and K-rail as extra BMPs.

View of drain inlet protection near Snug Harbor.

HC 10502 - KAPALAMA CONTAINER TERMINAL YARD
BMP INSPECTION 2021-01-27

View of drain inlet protection near Snug Harbor.

View of drain inlet protection near Snug Harbor.

HC 10502 - KAPALAMA CONTAINER TERMINAL YARD
BMP INSPECTION 2021-01-27

View of drain inlet protection near Snug Harbor.

View of biosocks near overflow basing.

HC 10502 - KAPALAMA CONTAINER TERMINAL YARD
BMP INSPECTION 2021-01-27

General view of overflow basin.

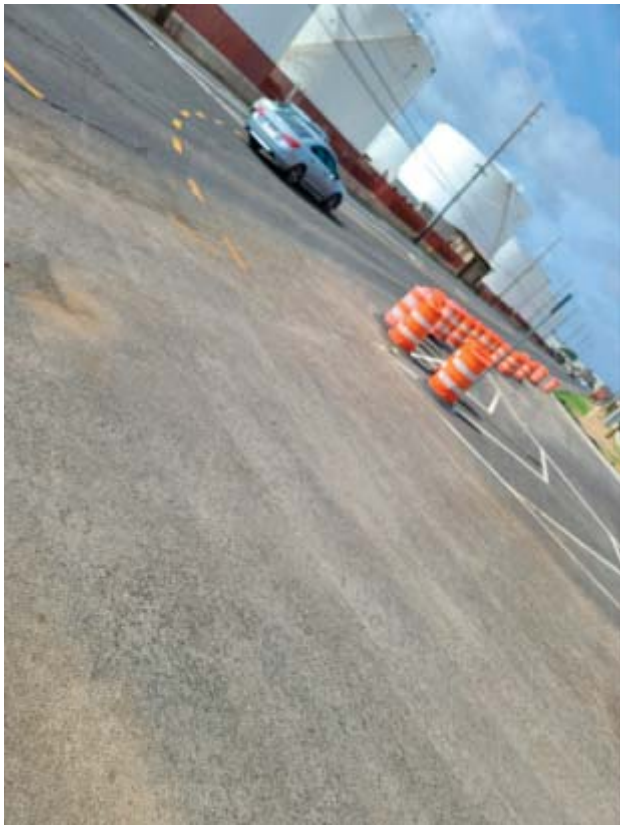
View of drain inlet protections near Pier 41.

HC 10502 - KAPALAMA CONTAINER TERMINAL YARD
BMP INSPECTION 2021-01-27

View of drain inlet protections near Pier 41.

View of drain inlet protections near Pier 41.

HC 10502 - KAPALAMA CONTAINER TERMINAL YARD
BMP INSPECTION 2021-01-27



AREA 1 - CORRECTION PHOTO

APPENDIX B — INSPECTION/CORRECTIVE REPORT FORM

INSPECTION/CORRECTIVE REPORT FORM

Date: 01/26/21 **Project/Site:** The New Kapalama Container Terminal Yard Design at Honolulu Harbor (H.C. 10502)
Permit No.: HI R10F486 **Inspector's Name:** Gregory Tignor **Weather Conditions:** Cloudy

BEST MANAGEMENT PRACTIES (BMPs) PLAN	YES	NO	N/A	DATE CORRECTED*	LOCATION OF RAIN GAGE OR WEATHER STA.	NOTES
Is a copy of the BMPs plan available at the site?	✓					
Is the BMPs plan certified, signed, and dated?	✓					
Is the BMPs plan current and up-to-date?	✓					
Are accompanying erosion and sediment control (ESC) drawings available at the site?				✓		NO ESC NECESSARY
Are the ESC drawings up-to-date?				✓		NO ESC NECESSARY
Are all NPDES permits available at the site?	✓					
Are inspection records available at the site?	✓					

[Repeat as Necessary.]

***NOTE:** Ensure to install the new or modified BMP control within and make it operational, or complete the repair, by no later than 7 calendar days from the time of discovery where feasible. If it is infeasible to complete the installation or repair within 7 calendar days, the permittee shall document in its records why it is infeasible to complete the installation or repair within the 7-day timeframe and document the schedule for installing the storm water control(s) and making it operational as soon as practicable after the 7-day timeframe. Where these actions result in changes to any of the storm water controls or procedures documented in the SWPPP, the permittee shall modify the SWPPP accordingly within 7 calendar days of completing this work (HAR Chapter 11-55, Appendix C, Section 5.1.1.4.2.2.).

Daily rainfall shall be recorded and such records kept on site, or at an easily accessible location so that it can be made available at the time of an on-site inspection or upon request by the DOH/EPA/DOT, or representatives of the U.S. Fish and Wildlife Services or the National Marine Fisheries Services.

BEST MANAGEMENT PRACTICES	LOCATION	INSTALLED PER SPECIFICATIONS (Y/N)	ADEQUATE	NEEDS MAINTENANCE	N/A	DATE CORRECTED	NOTES
Controlling Storm Water Flowing onto and through the Project)							
Soil Stabilization							
Slope Protection							
Storm Drain Inlet Protection							
Witches Hats	See BMP Map			Y			Mud / debris
Witches Hats w/ Berm	See BMP Map			Y			Mud / debris
Perimeter Controls and Sediment Barriers							
Biosock (BS10498)	3W, 3E, PSI			Y		1/26/21	Clue bio sock
Biosock (BSAUIKI)	Auiki St	Y					
Biosock (BSSIA)	3W, 2W, 1W	Y					

[Repeat as Necessary.]

BEST MANAGEMENT PRACTICES	LOCATION	INSTALLED PER SPECIFICATIONS (Y/N)	ADEQUATE	NEEDS MAINTENANCE	N/A	DATE CORRECTED	NOTES
Controlling Storm Water Flowing onto and through the Project)							
Soil Stabilization							
Slope Protection							
Storm Drain Inlet Protection							
Perimeter Controls and Sediment Barriers							
Dust Fence (DFAUIKI)	Auiki St	Y					
Dust Fence (DFSIA)	3W, 2W, 1W	Y					
Dust Fence (DOA)	3W, 2W, 1W	Y					

[Repeat as Necessary.]

BEST MANAGEMENT PRACTICES	LOCATION	INSTALLED PER SPECIFICATIONS (Y/N)	ADEQUATE	NEEDS MAINTENANCE	N/A	DATE CORRECTED	NOTES
Sediment Basins and Detention Ponds							
Detention Basin	3-West/3-east	Y					
Stabilized Ingress/Egress Structures							
Rumble Strips	Libby St. Gate	Y					
Rumble Strips	Gate #2	Y					
Rumble Strips	Auiki St. Gate	Y					
Rumble Strips	Truck Storage	Y					
Additional Erosion and Sediment Control BMPs							
Material Handling and Waste Management							
Office Waste Bin	Offices, 2E, 1W, 3W	Y					
Construction Waste Bin	3E	Y					
Metal Bin	Moves	Y					
Baseyards/Staging Areas							
Laydown Yard		Y					See perimeter controls

[Repeat as Necessary.]

BEST MANAGEMENT PRACTICES	LOCATION	INSTALLED PER SPECIFICATIONS (Y/N)	ADEQUATE	NEEDS MAINTENANCE	N/A	DATE CORRECTED	NOTES
Washout Areas							
Concrete Washout Bin	Ret. Wl. 1	Y					
Proper Equipment/Vehicle Fueling and Maintenance Practices							
See SPCC							
Additional Non-Erosion or Sediment Control BMPs							
Post Construction BMPs							
Other							
General housekeeping		Y					

[Repeat as Necessary.]

SITE CONDITIONS	YES	NO	N/A	NOTES AND CORRECTIVE ACTIONS
Are off-site flows entering the construction site?		✓		
Is there evidence of polluted discharges off the site?		✓		
Is there evidence of polluted discharges from the site to a state water (e.g. storm drain, ditch, stream, and ocean)?	✓	✗		Adjust BMPs
Is repair, maintenance, or installation of sediment control BMPs needed at the site?	✓			Clean witches hats in drains
Is repair, maintenance, or installation of erosion control BMPs needed at the site?		✓		
Are construction materials/debris/trash/soil stored or disposed of properly at the site?	✓			
Is there vehicle tracking from the site to receiving streets?		✓		
Do locations exist where additional or revised BMPs are needed?		✓		
Do locations exist where BMPs may no longer be necessary and may be removed?		✓		
Does your site evaluation indicate a need to update or revise the current Site-Specific BMPs plan and/or accompanying erosion and sediment control drawings?		✓		

[Repeat as Necessary.]

Photos taken during the BMP inspection documented above are:

- ☑ Attached
- ☐ Inserted
- ☐ Not taken, Attached, or Inserted.

I certify that I am the person who performed the inspection documented above and that all information recorded on this form is a true and accurate representation of what was observed at the construction site recorded above. Any photographs attached that were taken during the inspection are a true, accurate, and unaltered representation of what was observed during the inspection documented above.

Inspector's Printed Name (First and Last): Gregory Tignor

Inspector's Signature: GT Date: 1/27/20

All site BMP's observed. No changes to condition since the last inspection. No photos taken. Overall, all perimeter controls appear to be functioning per plan and no sediment or runoff water is leaving the site. All BMP's installed per plan.

Deficiency: Not identified by Enviro Services & Training Center, LLC. Dated 01.26.2021

Correction: Drain Inlet located along Pier 40/41. Debris and sediment clean from inlet. Filter sock reinstalled.

Deficiency: Photo 3 from Enviro Services & Training Center, LLC. Date 01.26.2021

Correction: Witches Hat and Filter Sock Cleaned and reinstalled

Deficiency: Photo 6 from Enviro Services & Training Center, LLC. Date 01.26.2021

Correction: Witches Hat and Filter Sock Cleaned and reinstalled

Deficiency: Photo 8 from Enviro Services & Training Center, LLC. Date 01.26.2021

Correction: Witches Hat and Filter Sock Cleaned and reinstalled

Deficiency: Photo 10 from Enviro Services & Training Center, LLC. Date 01.26.2021

Correction: Filter Socks Cleaned and reinstalled

Deficiency: Photo 14 from Enviro Services & Training Center, LLC. Date 01.26.2021

Correction: Witches Hat and Filter Sock Cleaned and reinstalled