

FACILITIES DEOBLIGATIONS COMPLETED			
Fund Center	Fund	Deobligations Completed	Amount Deobligated
10051	06129	2	\$ 398,796.00
10055	07129	1	\$ 2,362.79
	08129	2	\$ 2,184.78
	09129	1	\$ 81.63
10070	04129	4	\$ 21,938.72
	05129	2	\$ 58,378.27
	06129	3	\$ 41,785.29
	08129	2	\$ 91,846.25
	09129	4	\$ 27,671.96
10079	07129	1	\$ 120.66
	08129	1	\$ 17,043.81
10520	04129	1	\$ 51,184.02
	05129	2	\$ 363,322.29
	06129	3	\$ 181,940.69
	07129	1	\$ 32,873.71
	08129	1	\$ 1,844.46
	09129	1	\$ 508,626.92
	10139	13	\$ 988,286.07
	11139	5	\$ 13,846,554.60
	12139	12	\$ 4,321,658.64
	13461	2	\$ 4,382,792.48
14461	1	\$ 1,679,138.00	
10540	11139	1	\$ 528.63
<b>Grand Total</b>		<b>66</b>	<b>\$ 27,020,960.67</b>

TI DEOBLIGATIONS COMPLETED			
Fund Center	Fund	Deobligations Completed	Amount Deobligated
10052	07173	8	525003.69
	08173	2	85030
	09173	3	119164.47
10152	09173	9	101012.73
SB076	11173	1	22746.93
SB140	09173	3	314998.12
SB300	07173	4	183780.14
	10173	3	101564.19
SB400	09173	2	10348.24
	10173	4	363439.57
	11173	2	20174.88
SB500	10173	2	28000
	11173	7	315102.06
SB509	11173	2	40314.2
	12173	8	128466.45
	13463	1	12154.63
<b>TOTAL</b>		<b>61</b>	<b>\$ 2,371,300.30</b>

E OBLIGATIONS COMPLETED	
Fund Center	Fund
10052	07173
	08173
	09173
10152	09173
SB076	11173
SB140	09173
SB300	07173
	10173
SB400	09173
	10173
	11173
SB500	10173
	11173
SB509	11173
	12173
	13463
<b>Grand Total</b>	



TI DEOBLIGATIONS COMPLETED		
Functional Area	Deobligations Completed	Amount Deobligated
SB02	4	\$ 43,371.90
SB03	4	\$ 481,631.79
SB03	2	\$ 85,030.00
SB02	2	\$ 7,819.47
SB0201031900	1	\$ 111,345.00
SB01	1	\$ 10,661.07
SB03	8	\$ 90,351.66
SB03	1	\$ 22,746.93
SB01	3	\$ 314,998.12
SB03	4	\$ 183,780.14
SB03	3	\$ 101,564.19
SB03	2	\$ 10,348.24
SB03	4	\$ 363,439.57
SB03	2	\$ 20,174.88
SB02	2	\$ 28,000.00
SB02	7	\$ 315,102.06
SB02	2	\$ 40,314.20
SB0201031900	8	\$ 128,466.45
SB021101AG00	1	\$ 12,154.63
<b>Grand Total</b>	<b>61</b>	<b>\$ 2,371,300.30</b>

GSA DEOBLIGATIONS COMPLETED			
Fund Center	Fund	Deobligations Completed	Amount Deobligated
10523	14461	\$ 1.00	\$ 891,782.70
<b>TOTAL</b>		<b>1</b>	<b>\$ 891,782.70</b>

FACILITIES DEOBLIGATIONS COMPLETED				TI DEOBLIGATIONS COMPLETED			
Fund Center	Fund	Deobligations Completed	Amount Deobligated	Fund Center	Fund	Functional Area	Deobligations Completed
10051	06129	2	\$ 398,796.00	10052	07173	SB02	4
10055	07129	1	\$ 2,362.79			SB03	4
	08129	2	\$ 2,184.78		08173	SB03	2
	09129	1	\$ 81.63		09173	SB02	2
10070	04129	4	\$ 21,938.72			SB0201031900	1
	05129	2	\$ 58,378.27	10152	09173	SB01	1
	06129	3	\$ 41,785.29			SB03	8
	08129	2	\$ 91,846.25	SB076	11173	SB03	1
	09129	4	\$ 27,671.96	SB140	09173	SB01	3
10079	07129	1	\$ 120.66	SB300	07173	SB03	4
	08129	1	\$ 17,043.81		10173	SB03	3
10520	04129	1	\$ 51,184.02	SB400	09173	SB03	2
	05129	2	\$ 363,322.29		10173	SB03	4
	06129	3	\$ 181,940.69		11173	SB03	2
	07129	1	\$ 32,873.71	SB500	10173	SB02	2
	08129	1	\$ 1,844.46		11173	SB02	7
	09129	1	\$ 508,626.92	SB509	11173	SB02	2
	10139	13	\$ 988,286.07		12173	SB0201031900	8
	11139	5	\$ 13,846,554.60		13463	SB021101AG00	1
	12139	12	\$ 4,321,658.64	<b>TOTAL</b>			<b>61</b>
	13461	2	\$ 4,382,792.48				
	14461	1	\$ 1,679,138.00				
10540	11139	1	\$ 528.63				
<b>TOTAL</b>		<b>66</b>	<b>\$ 27,020,960.67</b>				

MPLETED	GSA DEOBLIGATIONS COMPLETED			
Amount Deobligated	Fund Center	Fund	Deobligations Completed	Amount Deobligated
\$ 43,371.90	10523	14461	1	\$ 891,782.70
\$ 481,631.79	<b>TOTAL</b>		<b>1</b>	<b>\$ 891,782.70</b>
\$ 85,030.00				
\$ 7,819.47				
\$ 111,345.00				
\$ 10,661.07				
\$ 90,351.66				
\$ 22,746.93				
\$ 314,998.12				
\$ 183,780.14				
\$ 101,564.19				
\$ 10,348.24				
\$ 363,439.57				
\$ 20,174.88				
\$ 28,000.00				
\$ 315,102.06				
\$ 40,314.20				
\$ 128,466.45				
\$ 12,154.63				
<b>\$ 2,371,300.30</b>				

TOTAL DEOBLIGATIONS COMPLETED		
<b>GRAND TOTAL</b>	<b>128</b>	<b>\$ 30,284,043.67</b>

Line Item	Description	Fund	Func. Area	Fund Center
10	USACE PROGRAMMATIC SUPPORT IAA	06129	HQ01	10052
20	USACE PROGRAMMATIC SUP (TI PROJECTS)	14463	SB02	SB509
30	USACE PROGRAMMATIC SUP (TI M&R)	14463	SB02	SB509
40	USACE PROGRAMMATIC SUP (TI (b) (7)(E)(E))	10173	SB03	SB509
50	USACE PROGRAMMATIC SUP (TI (b) (7)(E))	10173	SB03	SB509
60	USACE PROGRAMMATIC SUPPORT (FACILITIES)	14461	FM01	10520
70	USACE PROGRAMMATIC SUPPORT (TI FITT)	14463	SB02	SB509
80	USACE PROGRAMMATIC SUPPORT (FAC FITT)	14461	FM01	10520
90	USACE PROG SUPPORT (PRIORITIZATION FAC)	14461	FM01	10520
100	USACE PROG SUPPORT (MRO ASSESSMENT FAC)	14461	FM01	10520
110	TI PROGRAMMATIC SUP (b) (7)(E) )	14463	SB02	SB509
120	TI -FITT/WMS	14463	SB02	SB509
130	USACE CONTRACT SUP-CIVIL ENG(BSFIT)	15463	SB02	SB509
140	USACE PROGRAMMATIC SUP BSFIT D&D-TI	13463	SB03	SB502
150	USACE PROGRAMMATIC SUP BSFIT O&M (b) (7)(E)	15463	SB02	SB509
160	USACE PROGRAMMATIC SUP (BSFIT) (b) (7)(E) RE	15463	SB02	SB509
170	USACE PROGRAMMATIC SUP - (BSFIT) D&D TI	07173	SB03	SB502
180	USACE PROGRAMMATIC SUP - FITT (BSFIT)	15463	SB02	SB509
190	USACE PROGRAMMATIC SUP - FITT (BSFIT)	15463	SB02	SB509
200	USACE CONTRACT SUP-CIVIL ENG (FC&S)	15461	FM01	10582
210	USACE PROGRAMMATIC SUP-FITT (FC&S)	15461	FM01	10520
220	USACE PROGRAM SUP-SWANTON RE (BSFIT)	07173	SB03	SB05B
230	USACE PROGRAMMATIC SUP (BSFIT) D&D TI	09173	SB03	SB502

SB02 TI O&M  
 SB03 TI D&D  
 FM01 & HQ01 FACILITIES

Gross value	Expensed	Funds Remaining
\$67,553.68	\$19,643.05	\$47,910.63
\$860,670.99	\$90,724.86	\$769,946.13
\$345,001.19	\$264,056.18	\$80,945.01
\$242,256.25	\$68,279.20	\$173,977.05
\$204,631.03	\$90,427.29	\$114,203.74
\$2,290,687.86	\$1,276,993.50	\$1,013,694.36
\$908,881.80	\$847,701.14	\$61,180.66
\$546,774.40	\$527,456.37	\$19,318.03
\$150,000.00	\$0.00	\$150,000.00
\$700,000.00	\$0.00	\$700,000.00
\$300,000.00	\$8,171.89	\$291,828.11
\$700,000.00	\$0.00	\$700,000.00
\$201,463.68	\$0.00	\$201,463.68
\$8,207.59	\$0.00	\$8,207.59
\$657,661.82	\$0.00	\$657,661.82
\$244,081.69	\$0.00	\$244,081.69
\$246,358.00	\$0.00	\$246,358.00
\$1,405,000.00	\$0.00	\$1,405,000.00
\$645,000.00	\$0.00	\$645,000.00
\$201,463.68	\$0.00	\$201,463.68
\$890,000.00	\$2,648.03	\$887,351.97
\$100,000.00	\$0.00	\$100,000.00
\$14,176.00	\$0.00	\$14,176.00
<b>\$11,929,869.66</b>	<b>\$3,196,101.51</b>	<b>\$8,733,768.15</b>

**\$5,057,107.10**

**\$656,922.38**

**\$3,019,738.67**

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From: [REDACTED] (b) (6), (b) (7)(C)  
To: [REDACTED] (b) (6)  
Cc:  
Bcc:  
Subject: RE: Final Report--Environmental Stewardship for Fence Construction March 2013  
Date: Mon Jan 26 2015 13:50:55 EST  
Attachments:

---

Thanks (b) (6)

(b) (6), (b) (7)(C)

Senior Environmental Specialist

RE and Env Division

LMI

Border Patrol Facilities and Tactical Infrastructure

Program Management Office

Facilities Management and Engineering

Cell: (b) (6), (b) (7)(C)

“Excel as a trusted strategic partner enhancing Border Patrol's proud legacy.”

From: [REDACTED] (b) (6)  
Sent: Monday, January 26, 2015 1:46 PM  
To: (b) (6), (b) (7)(C)  
Subject: RE: Final Report--Environmental Stewardship for Fence Construction March 2013

Yes Calvo did approve the document and he approved the paper for publication but we never got public affairs or congressional affairs approval. They just would not act on it. That is why we ended up just “publishing” this report as a BPFTI report for the KMS.

From: [REDACTED] (b) (6), (b) (7)(C)  
Sent: Monday, January 26, 2015 12:39 PM

To: (b) (6)

Subject: RE: Final Report--Environmental Stewardship for Fence Construction March 2013

(b) (6)

I did speak with (b) (6), (b) (7)(C) about this. She wanted to present this at an upcoming meeting of the Association of Environmental Professionals. She advised me that (b) (6), (b) (7)(C) had basically squashed this effort. I cannot tell from what you send whether Calvo ever actually approved this document. Do you have any knowledge of that? thanks

(b) (6), (b) (7)(C)

Senior Environmental Specialist

RE and Env Division

LMI

Border Patrol Facilities and Tactical Infrastructure

Program Management Office

Facilities Management and Engineering

Cell: (b) (6), (b) (7)(C)

“Excel as a trusted strategic partner enhancing Border Patrol's proud legacy.”

From: (b) (6)

Sent: Sunday, January 25, 2015 12:24 PM

To: (b) (6), (b) (7)(C)

Subject: FW: Final Report--Environmental Stewardship for Fence Construction March 2013

(b) (6), (b) (7)(C)

The Environmental Stewardship paper that we had intended to publish ended up as a BPFTI “Report” so that it could be uploaded to the KMS for future reference. It is currently on the BPFTI KMS site.



Let me know if you have any questions on this.

(b) (6)

PS---(b) (6), (b) (7)(C) has been kicking this sleeping dog along with her POC in OBP. She wants to have OBP speak at some upcoming meetings/conferences about our “responsible environmental stewardship” since this issue still is simmering on the Hill. She had planned to discuss with (b) (6), (b) (7)(C) but not sure if that has happened yet.

From (b) (6)  
Sent: Friday, February 07, 2014 7:08 AM  
To (b) (6), (b) (7)(C)  
Cc: (b) (6), (b) (6), (b) (6), (b) (7)(C)  
Subject: Final Report--Environmental Stewardship for Fence Construction March 2013

(b) (6), (b) (7)(C)

Attached is the paper we prepared but redone to “publish” as a BPFTI report. I documented on the report that this paper was approved by the XD so I guess we need to see whether we need to again get (b) (6), (b) (7)(C) approval.

I just think we need to get it “published” and posted to the FITT and KMS so its there—along with the ESSRs, ESSR summary reports and Fact Sheets. All of these documents combined should provide ample historical documentation.

I would recommend that the report be posted along with the XD approval—attached so folks in the future have both pieces.

Let me know if you have any questions.

(b) (6)

From:

(b)(6);(b)(7)(C)

To:

Cc:

Bcc:

Subject: FW: Atlantic & East Central Corridors PMR

Date: Tue May 12 2015 11:15:18 EDT

Attachments: BOMR Briefing\_Eules\_05042015.pptx  
Consolidated FY15 Project Status review-with comments.xlsx  
Eastern Corridor Portfolio Review FINAL DRAFT v1 050715.pptx  
CWEmbed1.xlsx  
CWEmbed2.pdf  
CWEmbed3.pdf  
CWEmbed4.pdf  
CWEmbed5.pdf  
CWEmbed6.pdf  
CWEmbed7.pdf  
CWEmbed8.pdf  
CWEmbed9.pdf  
Eules - Fort Worth Portfolio Review May 2015 FINAL.DOCX  
IAA Status Brief\_Final [REDACTED] comments.pptx  
PMR RR Slides FINAL.PPTX  
Systems Project Review - Portfolio Review Slides v3.pptx

-----Original Appointment-----

From: (b)(6), (b)(7)(C)

Sent: Thursday, December 04, 2014 8:26 AM

To: (b)(6);(b)(7)(C)

[REDACTED]

(b) (6); (b) (7) (C)

When: Tuesday, May 12, 2015 12:00 AM to Friday, May 15, 2015 12:00 AM (UTC-05:00) Eastern Time (US & Canada).

Where: Call in (b) (7)(E), PIN: (b) (7)(E), Federal Building, 819 Taylor St, Fort Worth, TX, 4th Floor, Texas Room

5/11/15 Slides Attached

<<Eastern Corridor Portfolio Review FINAL DRAFT v1 050715.pptx>> <<Systems Project Review - Portfolio Review Slides v3.pptx>> <<PMR RR Slides FINAL.PPTX>> <<Consolidated FY15 Project Status review-with comments.xlsx>> <<BOMR Briefing\_Eules\_05042015.pptx>> <<IAA Status Brief\_Final (b)(6),(b)(7) comments.pptx>>

Updated 5/8/2015 with Agenda; Optional Group Dinner is Wed night

<<Eules - Fort Worth Portfolio Review May 2015 FINAL.DOCX>>

Tuesday – Thursday, 8AM to 5PM local time

Travel Days Monday & Friday

# CBP Office of Administration Facilities Management and Engineering

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## Eastern Corridor Portfolio Management Review

May 2015



U.S. Customs and  
Border Protection





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- *Del Rio Sector Projects*
- *Laredo Sector Projects*
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- *New Orleans Sector Projects*
- *Other Initiatives*

## **East Southeast Corridor**

### **Project Managers**

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### **Property Overview (FAC, TI, Towers)**

### **Assessments**

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### **Real Estate Overview**

### **Environmental Overview**

### **Projects (FAC, TI, Towers)**

- *Buffalo Sector Projects*
- *Swanton Sector Projects*
- *Houlton Sector Projects*
- *Miami Sector Projects*
- *Ramey Sector Projects*
- *Other Initiatives*





# Introduction & Purpose

## Why do we have Portfolio Reviews?

To continue to build our core competencies as Facility Managers, Project Managers, Project Analysts, Real Estate Specialists, Leasing Specialists, Environmental Specialists, and Financial Management Analysts

To share information, challenges and successes associated with projects and to learn from one another as a result

To gain a clearer understanding of the portfolio as a whole including leasing, environmental and real estate

To increase transparency and improve communications

To develop and build upon existing touch points within the organization

To understand one another's roles and responsibilities

To refresh our skills and to share new subject matter specific and programmatic information through training and presentations

To ask for help

The Portfolio Review is not meant to be a briefing only to (b)(6);(b)(7)(C), (b)(6);(b)(7)(C) and the Division Directors. This is your time to learn from the presenters and each other – use it well.



# Ground Rules

Respect the Speaker

One Conversation at a Time

“Enough, Let’s Move On” – ELMO

90-second nutshell

No, you can’t bank extra time

Consider the Person Taking Action Items



# Agenda – Day 1



Time	Topic
08:00 – 08:30	
08:30 – 09:30	
09:30 – 10:00	
10:00 – 10:15	
10:15 – 12:00	
12:00 – 13:00	
13:00 – 14:30	
14:30 – 14:45	
14:45 – 16:00	
16:00 – 16:15	
16:15 – 17:15	
17:15 – 17:30	



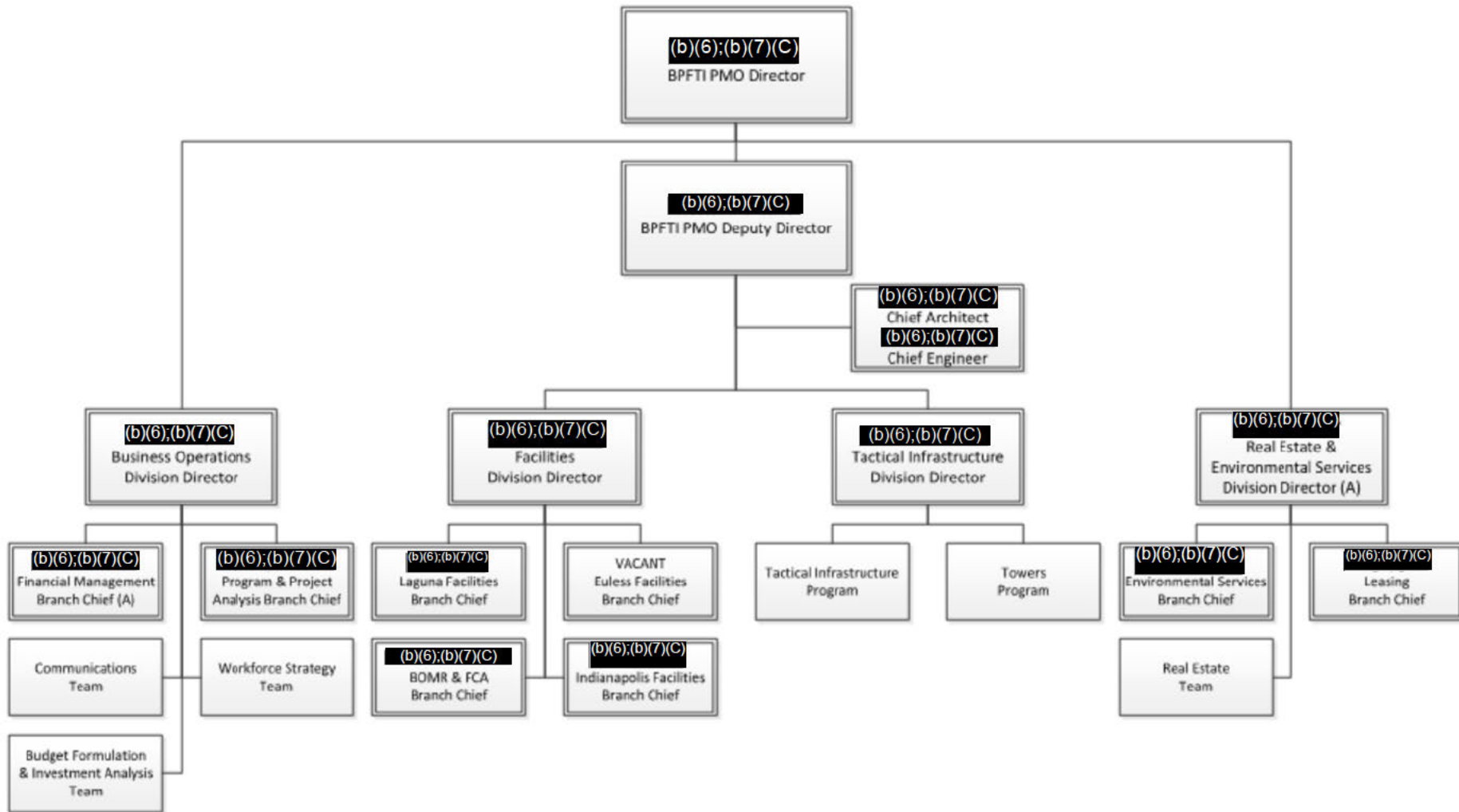


# Since the last PMR

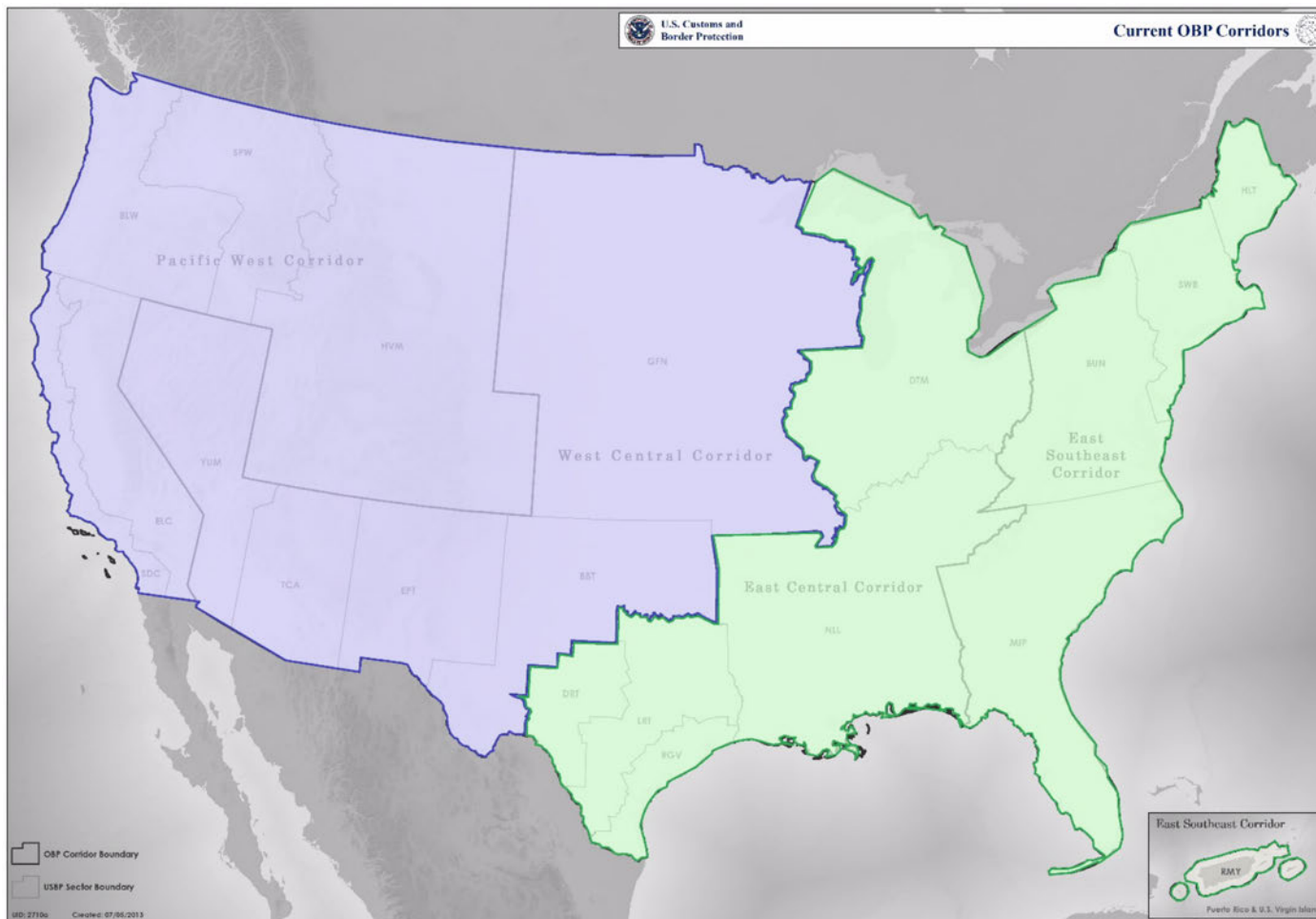


**U.S. Customs and  
Border Protection**

# The BPFTI Organization



# Corridor Map



# CBP Office of Administration Facilities Management and Engineering

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## East Central Corridor



U.S. Customs and  
Border Protection



# Project Managers

<b>(b)(6);(b)(7)(C) - FAC</b>	
# of Projects	2
Project Value	\$40,930,657
Certifications	PM II, COR III, AICP

<b>(b)(6);(b)(7)(C) - FAC</b>	
# of Projects	
Project Value	
Certifications	PM I, COR III

<b>(b)(6);(b)(7)(C) - FAC</b>	
# of Projects	
Project Value	
Certifications	PM I, COR II

<b>(b)(6);(b)(7)(C) - FAC</b>	
# of Projects	
Project Value	
Certifications	

<b>(b)(6);(b)(7)(C) FAC</b>	
# of Projects	40
Project Value	\$ 4,172,360
Certifications	PMP

<b>(b)(6);(b)(7)(C) FAC</b>	
# of Projects	
Project Value	
Certifications	COR II

<b>(b)(6);(b)(7)(C) - FAC</b>	
# of Projects	22
Project Value	\$13M
Certifications	PM II, COR III

<b>(b)(6);(b)(7)(C) - TI</b>	
# of Projects	
Project Value	
Certifications	PM I, COR III

<b>(b)(6);(b)(7)(C) TI</b>	
# of Projects	
Project Value	
Certifications	COR III

**\* Total Projects:**

Facilities	24
TI/Towers	26

**\* Total Project Value:**

Facilities	\$ 153M
TI/Towers	\$ 27.5M

<b>(b) (6), (b) (7)(C) - TI</b>	
# of Projects	
Project Value	
Certifications	

<b>(b)(6);(b)(7)(C) TI</b>	
# of Projects	
Project Value	
Certifications	

BW23 FOIA CBP 022537

\* Project Values from Approved Projects in FITT



# East Central Corridor

## Facility Managers

(b)(6);(b)(7)(C)	
# of Personnel	4
Certifications	COR II
Sectors	Grand Forks /Detroit
# of Buildings Managed	6

(b)(6);(b)(7)(C)	
# of Personnel	7 Govt 2 Cont
Certifications	PM I, COR II
Sectors	New Orleans
# of Buildings Managed	17 owned 22 leased

(b)(6);(b)(7)(C)	
# of Personnel	18
Certifications	COR III
Sectors	Del Rio
# of Buildings Managed	86

(b)(6);(b)(7)(C)	
# of Personnel	20
Certifications	PM I, COR II
Sectors	Laredo
# of Buildings Managed	62

(b)(6);(b)(7)(C)	
# of Personnel	21
Certifications	
Sectors	Rio Grande Valley
# of Buildings Managed	37





# East Central Corridor

## Property Overview

### Facilities

Square Feet (Building): 2,230,072  
 Acreage (Land): 649  
 Each (Structures): 142

(b) (7)(E) Towers: 57  
 FtF Baseline: 478,996  
 FtF Current: 552,493

	BPSHQ	BPS	FOB	CKPT	TARS	SOG	Total # of Buildings	Agents	Total Sq. Ft.	% of Total Sq. Ft.
<b>Detroit</b>	1	5	0	0	0	0	13	406	185,354	8%
<b>Del Rio</b>	1	10	0	5	1	0	81	1,527	636,469	29%
<b>Laredo</b>	1	7	0	5	0	0	56	1,752	351,668	16%
<b>Rio Grande Valley</b>	1	9	1	3	2	0	70	2,992	955,106	44%
<b>New Orleans</b>	1	5	0	0	0	0	8	62	57,688	3%
<b>Total</b>	<b>5</b>	<b>36</b>	<b>1</b>	<b>13</b>	<b>3</b>	<b>0</b>	<b>228</b>	<b>6,739</b>	<b>2,186,285</b>	

	BPSHQ	BPS	FOB	CKPT	TARS	SOG	Total # of Buildings	Agents	Total Sq. Ft.	% of Total Sq. Ft.
<b>Grand Forks *</b>	1	8	0	0	0	0	15	183	170,429	8%



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\* West Central Corridor sector included for FM travel coordination  
 - Data source is TRIRGA

BW23 FOIA CBP 022539

# East Central Corridor

## Property Overview

### Tactical Infrastructure

	Detroit		Del Rio		Laredo		Rio Grande Valley		New Orleans	
	Total Owned Operational	Total non-owned Operational	Total Owned Operational	Total non-owned Operational	Total Owned Operational	Total non-owned Operational	Total Owned Operational	Total non-owned Operational	Total Owned Operational	Total non-owned Operational
Primary VF (Miles)	0	0	0	0	0	0	0	0	0	0
Primary PF (Miles)	0	0	4	0	1	0	54	0	0	0
Secondary PF (Miles)	0	0	0	0	0	0	0	0	0	0
Tertiary PF (Miles)	0	0	0	0	0	0	0	0	0	0
Gates (Count)	0	0	34	84	3	2	35	0	0	0
Road (Miles)	0	0	19	1105	3	139	107	588	0	0
Bridges (Count)	0	0	1	18	1	1	4	0	0	0
Boat Ramps (Count)	0	0	0	16	0	5	0	28	0	0
Veg. Control (Acres)	0	0	208	99	1	35	152	1610	0	0
Veg. Control (Miles)	0	0	4	0	0	0	158	622	0	0
Drainage- Culverts	0	0	1	0	1	0	1	0	0	0
Drainage- LWC	0	0	2	0	12	0	0	0	0	0
Lighting & Electrical (Count)	0	0	0	0	0	0	0	0	0	0

- Data source is FITT TI Metrics

### Towers

Detroit	Del Rio	Laredo	Rio Grande Valley	New Orleans
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**(b) (7)(E)**

**(b) (7)(E)**



U.S. Customs and Border Protection

- Data source is TRIRGA

BW23 FOIA CBP 022540



# Assessments

## Facility Condition Assessment Status

FY14 (USACE )	AK, ID, ME, MI, MN, MT, ND, NH, NY, OH, VT, WA
Contract awarded	08/15/2014
Structures	354
Locations (Reports)	113
Square footage	1,571,696

FY14 FCA Summary	
% Reports Delivered	11%
Cumulative PRV	\$46,066,207
Cumulative Deficiencies	\$6,065,990
Aggregate FCI FY14 Status	86.8%

- Four of the nine assessment trips are complete: Michigan/Ohio, Vermont/New Hampshire, Montana and western Washington.
- Eleven final reports have been approved. Twenty one draft reports have been reviewed and are in the process of final report acceptance. An additional twelve draft reports are currently in initial review. The facilities visited have been well maintained, over 96% of the repairs needed (b) (7)(E). Most all issues reported on the previous FCAs (FY 11) have been corrected.
- April assessment trips will be made to Vermont, New York, and Alaska. Trips to North Dakota and Minnesota are planned for May. The final assessment trip to Idaho and eastern Washington is scheduled for early June.
- All final reports are scheduled to be approved by August.

### FY15 Status

- In discussions with USACE for FY15 contract.



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## Tower Assessment Status

(b) (7)(E) East Central

Sector	Number Assessed	Year Assessments Completed
DRT	(b) (7)(E)	2012
LRT	(b) (7)(E)	2012
RGV	(b) (7)(E)	2011
DTM	(b) (7)(E)	2013

(b) (7)(E) East Central

Sector	Number Assessed	Year Assessments Completed
NLL	(b) (7)(E)	2014

(b) (7)(E) East Southeast

Sector	Number Assessed	Year Assessments Completed
BUN	(b) (7)(E)	2013
SWB	(b) (7)(E)	2012

(b) (7)(E) East Southeast

Sector	Number Assessed	Year Assessments Completed
RMY	(b) (7)(E)	2014
MIP	(b) (7)(E)	2014
BUN	(b) (7)(E)	2014
SWB	(b) (7)(E)	2014
HLT	(b) (7)(E)	2014



# East Central Corridor Assessments

## Environmental Compliance Assessment Status as of April 30, 2015

- ❖ Env. Compliance Assessments initiated in FY15
- ❖ All facilities have been assessed at least once.
- ❖ Most common deficiencies identified in FY10 through FY13:
  - Improper labeling of waste containers
  - Lack of appropriate training
  - Incomplete record keeping
  - Missing plans/permits
  - EPCRA/Tier II reporting not completed
  - Improper management of universal waste and lack of personnel training

Sector	No. of Facilities to be Assessed in FY15	No. of Open Deficiencies	Est. Cost to Resolve
DTM	1	59	(b) (5)
DRT	15	355	
LRT	1	115	
RGV	7	259	
NLL	1	17	



# East Central Corridor

## Maintenance Overview

### Towers

Contract	POP Start	POP End	Value	Total Invoiced
(b) (7)(E) Contract - (b) (7)(E)	10/01/14	09/25/15	\$4,425,496	\$918,367.40
FAA IAA - (b) (7)(E)	09/26/15	TBD	\$1,862,196	\$0
GSA IAA - (b) (7)(E)	01/01/13	06/30/15	\$2,840,057	\$124,426
USACE IAA - (b) (7)(E)	08/20/12	09/30/16	\$1,261,604	\$213,753
FAA IAA - (b) (7)(E)				
<b>Total</b>			<b>\$ 10,389,353</b>	<b>\$ 1,256,546</b>

### Tactical Infrastructure

Contract Year (Current)	POP Start	POP End	Value	Total Invoiced
WA 4 - Base Year				
<b>Total</b>				

### Facilities

Contract Type	Total Value
PM Contracts (PM + Minor Repairs)	\$2,522,492
Maintenance Contracts	\$355,807
Ops Contracts	\$7,841,663
Repair Contracts (Above Threshold)	\$880,000
<b>Total</b>	<b>\$11,599,962</b>

**Number of Contracts: 26**

**Number of CORs: 19**

DRT, LRT, RGV  
 (No maintenance for NLL sector and DTM is included in East Southeast Corridor values.)





# East Central Corridor Leasing Overview

## Lease Summary

Quantity      Value

### Lease Agreements

Direct Lease

GSA Lease

### Total Square Feet

### Total Acreage

### Leases in Holdover

### Leases in Renewal

### New Lease Actions

### Lease Closures

## Leases Expiring before end of 2017

## Terminations:



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## Current Priorities: ROE-SE Acquisition in RGV for Proposed New Towers

(b) (5)





# East Central Corridor

## Real Estate Overview

**Current Actions:** Review and evaluation of real estate rights documentation on existing (b) (7)(E) towers; Evaluate agreements against ownership plats for tower sites and access routes; Post and approve in FITT; Cure deficiencies

<u>Sector - Existing Towers</u>	<u>Detroit</u>	<u>Del Rio</u>	<u>Laredo</u>	<u>Rio Grande Valley</u>	<u>New Orleans</u>
Number of tower sites reviewed for RE rights (physical tower locations)	(b) (7)(E)				
Number of access route parcels reviewed for RE rights	0	56	65	11	n/a
Number of sites "RED" because either tower site lacks valid documentation or one or more access parcels do	unknown	16	14	13	n/a
Number of sites and access parcels uploaded into FITT	0	87	100	48	n/a
Estimated time frame to complete review	(b) (5)	complete	complete	complete	n/a



# East Central Corridor

## Environmental Overview

Funding	DTM	DRT	LRT	RGV	NLL
	# WO / \$	# WO / \$	# WO / \$	# WO / \$	# WO / \$
Facilities - Compliance	1 / \$32,141	NA	NA	NA	NA
Facilities - Planning	NA	1 / \$77,578	NA	NA	NA
TI / Towers	NA	1 / \$14,012	1 / \$28,868	5 / \$140,138	NA
Reveg	NA	NA	NA	NA	NA

TI / Towers		Facilities Compliance		Facilities Planning	
RGV (b) (7)(E) CTIMR USFWS 4 Existing Rds Phase I Arch and CR Survey	\$ 14,902	(b) (7)(E) Stormwater Investigation	\$ 32,141	(b) (7)(E) Checkpoint Renovation Phase I ESA, CR, Bio Survey	\$ 77,578
RGV FY15 (b) (7)(E) Road Env Monitoring	\$ 97,002				
RGV (b) (7)(E) Road Arch Site Visit	\$ 2,399				
RGV (b) (7)(E) Roads CR Survey	\$ 16,078				
RGV (b) (7)(E) Roads CR MBTA Survey	\$ 9,757				
LRT Priority Roads CR and WOUS Surveys	\$ 28,768				
DRT (b) (7)(E) Road MBTA Survey	\$ 14,012				
RGV (b) (7)(E) EA*	\$ 854,223				
LRT (b) (7)(E) Road*	\$ 195,890				

\* Stand Alone Task Order



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# East Central Corridor

## Projects Review - Terms

<b>Term</b>	<b>Field Name in FIIT</b>	<b>Explanation</b>
PRD Cost Estimate	Initial Estimate - Initial ROM	Initial ROM as captured in approved Projects Requirement Document (PRD)
Revised Cost Estimate	Total Approved Budget	Executing Agency Estimate + Total Executing Agency Approved CRs + FM&E Approved Costs
Project Budget Expensed	Total Expenditures	Total Contract Awards + Total Executing Agency Non-Contract Obligations
Pending Change Request Cost	Total Executing Agency Approved CRs	Approved Change Requests
Completed Change Requests	Funds Transferred: CR	Change Requests expensed





# DTM DTM MCA Conduct Facility Repairs

## ND04MCA-4450



### Progress / Risk

(b) (5)

### Schedule

G

Milestone	Baseline	Planned	Actual
Project Start	06/15/14	06/30/14	10/29/2014
RE Cert	N/A	N/A	N/A
Environ	N/A	N/A	N/A
RFP	05/30/14	05/30/14	07/28/2014
Award	06/14/14	06/30/14	09/30/2014
NTP	06/30/14	06/30/14	09/30/2014
Completion	04/30/19	12/30/14	May 2015

### Cost

G

PRD Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	(b) (5)
USACE Labor Cost (e.g. District Costs)	(b) (5)
Construction Award Cost	(b) (5)
Pending Change Request Cost	(b) (5)
Completed Change Request Costs	(b) (5)
First Year BOMR Cost Estimate	BW23 FOIA C (b) (5)



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**Facilities**  
**DRT (b)(7)(E) CON Build (b)(7)(E) Agent Station**  
**DC06CON-4249**



Construction of (b)(7)(E) agent new Border Patrol Station and Co-located Checkpoint with (b)(7)(E).

**Progress / Risk**

Initial Risk Estimate: \$ (b)(5)

Current Risk Estimate: (b)(5)

**Major Issues:**

- TXDOT requirements delays (critical path to project closeout)
- RGEC possible additional charges (not critical path)
- OIT network redundancy design (not critical path)
- Contractor's furniture deficiency (not critical path)

**Lessons Learned:** Use of modules and other innovative design elements to accommodate flexible station size requirements. Need better RFP with updated Design Standards. Early determination (engineering) of rural power capacities. Manage TXDOT participation more effectively.

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start	02/27/12	03/02/12	03/27/12
RE Cert	10/19/11	10/19/11	10/19/11
Environ	04/04/11	04/04/11	04/04/11
RFP	11/18/11	11/18/11	11/18/11
Award	05/10/12	05/10/12	05/10/12
NTP	06/19/12	06/19/12	06/19/12
Completion	02/21/14	05/01/15	4/27/15 BOD

**Cost**



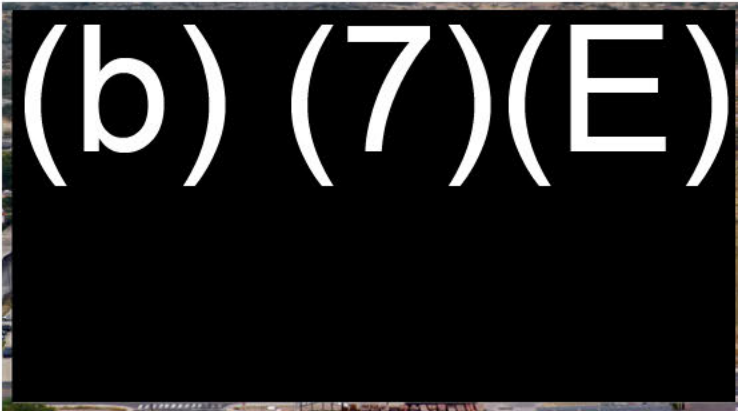
PRD Cost Estimate	(b)(5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	\$ 1,081,379
USACE Labor Cost (e.g. District Costs)	\$ 1,709,610
Construction Award Cost	\$ 32,128,330
Pending Change Request Cost	(b)(5)
Completed Change Request Costs	\$ 5,432,635
First Year BOMR Cost Estimate BW23 FOIA	(b)(5)



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**DRT (b)(7)(E) MCA Study/Repair Flood Potential  
 DC06MCA-4359**



Remove and replace sections of the existing parking lot to create a better drainage pattern for stormwater away from the existing buildings.

**Progress / Risk**

Initial Risk Estimate: \$(b) (5)

Current Risk Estimate: (b) (5)

**Major Issues:**

- Project was bundled with DC06MCA-4440 and we cannot find a contractor willing to bid on that project. This is delaying the flood mitigation project.

**Lessons Learned:** There can be problems getting repairs done to old modular buildings.

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start	04/30/12	04/30/12	04/30/12
RE Cert	04/30/12	04/30/12	04/30/12
Environ	10/12/12	10/12/12	10/12/12
RFP	05/1/13	01/14/15	01/14/15
Award	08/12/13	(b) (5)	
NTP	09/12/13		
Completion	02/8/14		

**Cost**

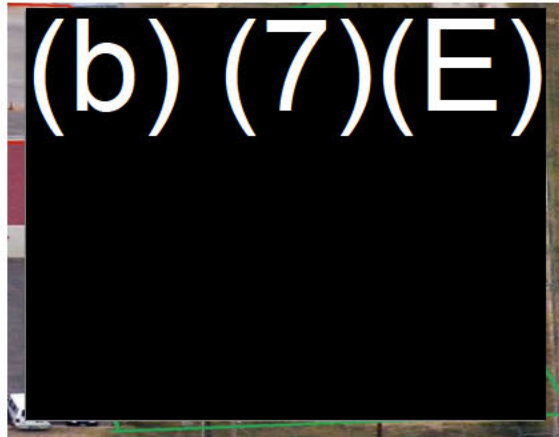


PRD Cost Estimate	(b) (5)
Current Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	\$0
USACE Labor Cost (e.g. District Costs)	\$0
Construction Award Cost	TBD
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0
First Year BOMR Cost Estimate	\$0



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**Facilities**  
**DRT (b)(7)(E) MCA Re-level/Replace Floors**  
**DC06MCA-4440**



Re-level modular buildings and make internal repairs to floors, walls and ceilings. Repair/replace roofing.

**Progress / Risk**

**Initial Risk Estimate:** \$ (b)(5)

**Current Risk Estimate:** [Redacted]

**Major Issues:**

- Combining this project with the Flood Mitigation project has put that project behind schedule.
- We cannot get a reasonable bid from the 8a contractor for the re-leveling work.

**Lessons Learned:**

- Contractor's will not assume the risk involved with working on an old modular building.

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start	12/01/13	06/27/13	06/27/13
RE Cert	09/23/13	01/31/14	09/23/13
Environ	09/23/13	11/29/13	09/23/13
RFP	05/7/14	01/14/15	01/14/15
Award	07/14/14	(b)(5)	
NTP	08/13/14		
Completion	02/09/15		

**Cost**



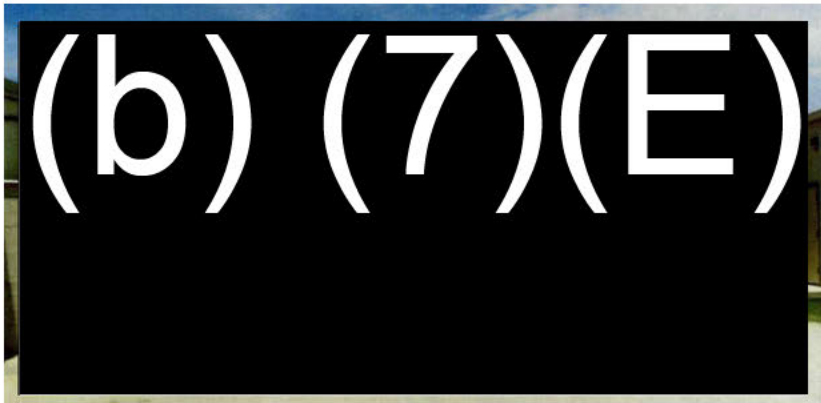
PRD Cost Estimate	(b)(5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	\$0
USACE Labor Cost (e.g. District Costs)	\$0
Construction Award Cost	\$TBD
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0
First Year BOMR Cost Estimate BW23 FOIA CB	(b)(5)



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**Facilities**  
**DRT (b)(7)(E) MCA Renovate Sally Port**  
**DC06MCA-4482**



Renovation of existing sally port to create a more secure facility.

**Progress / Risk**

**Initial Risk Estimate:** \$(b) (5)

**Current Risk Estimate:** [Redacted]

**Major Issues:** Due to sloping roofline, the contractor will have to modify the sally port gates in order to place them properly.

**Lessons Learned:** This was a design build project. With the existing roof construction, more attention should have been paid to the design prior to NTP.

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start	05/30/14	05/30/14	05/30/14
RE Cert	09/22/14	09/22/14	09/22/14
Environ	11/28/14	11/28/14	11/28/14
RFP	08/25/14	08/25/14	08/25/14
Award	09/30/14	09/30/14	09/20/14
NTP	10/07/14	10/07/14	10/07/14
Completion	01/05/15	(b) (5)	

**Cost**

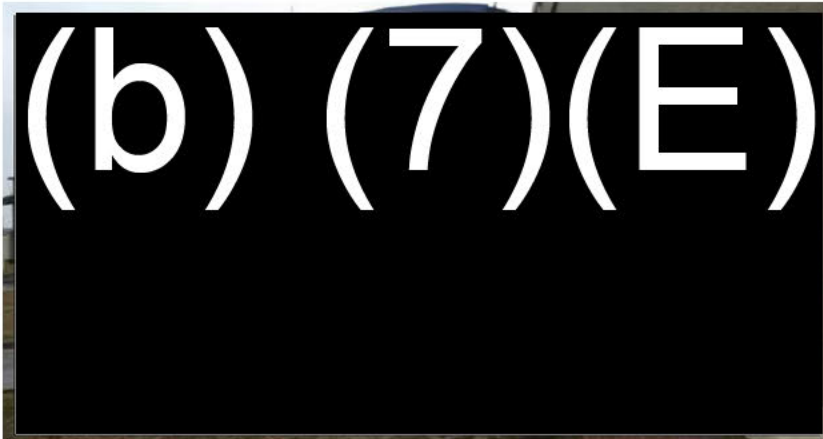


PRD Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	\$0
USACE Labor Cost (e.g. District Costs)	N/A
Construction Award Cost	(b) (5)
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0
First Year BOMR Cost Estimate	\$0



**U.S. Customs and Border Protection**

**DRT (b)(7)(E) MCA Renovate Sally Port**  
**DC06MCA-4483**



Renovation of the existing sally port to create a more secure facility.

**Progress / Risk**

**Initial Risk Estimate:** \$ (b)(5)

**Current Risk Estimate:** [Redacted]

**Major Issues:**

- No major issues and the project is processed on schedule

**Lessons Learned:** Review more in detail construction timelines and design for baseline schedule. Avoid changes to design after NTP.

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start	05/30/14	05/30/14	05/30/14
RE Cert	09/22/14	09/22/14	09/22/14
Environ	11/28/14	11/28/14	11/07/14
RFP	08/25/14	08/25/14	08/25/14
Award	09/30/14	09/30/14	09/20/14
NTP	10/07/14	10/07/14	10/07/14
Completion	01/05/15	(b)(5)	

**Cost**



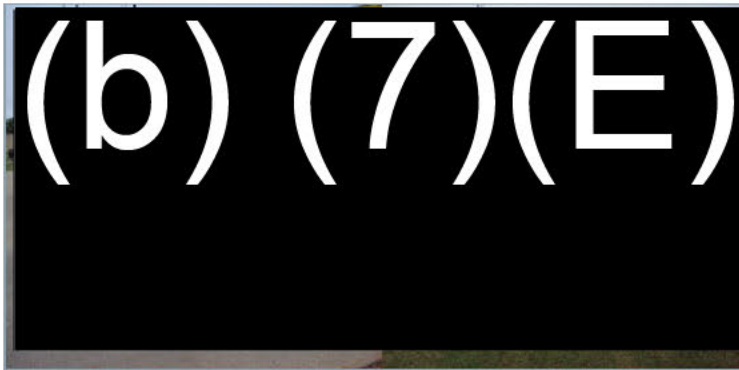
Initial Cost Estimate	(b)(5)
Current Cost Estimate:	[Redacted]
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	\$0
USACE Labor Cost (e.g. District Costs)	N/A
Construction Award Cost	(b)(5)
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0
First Year BOMR Cost Estimate	\$0



**U.S. Customs and Border Protection**

LRT (b)(7)(E) MCA Install Bollards @ (b)(7)(E)  
 DK02MCA-4330

Agency PM: N/A



Install- Bollards, Jersey barrier and guardrail as added safety measures to protect main structure against vehicles TECO'd 4/21/15

**Progress / Risk**

Initial Risk Estimate: (b) (5)

Current Risk Estimat (b) (5)

**Major Issues:**

- None

**Lessons Learned:** Flexibility of funding through CBP procurement

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start	11/17/14	11/17/14	11/26/14
RE Cert	NA		
Environ	03/20/14	06/20/14	05/20/14
RFP	01/27/15	02/11/15	02/11/15
Award	02/23/15	03/06/15	02/17/15
NTP	03/02/15	03/13/15	02/19/15
Completion	04/05/15	04/13/15	04/17/15

**Cost**



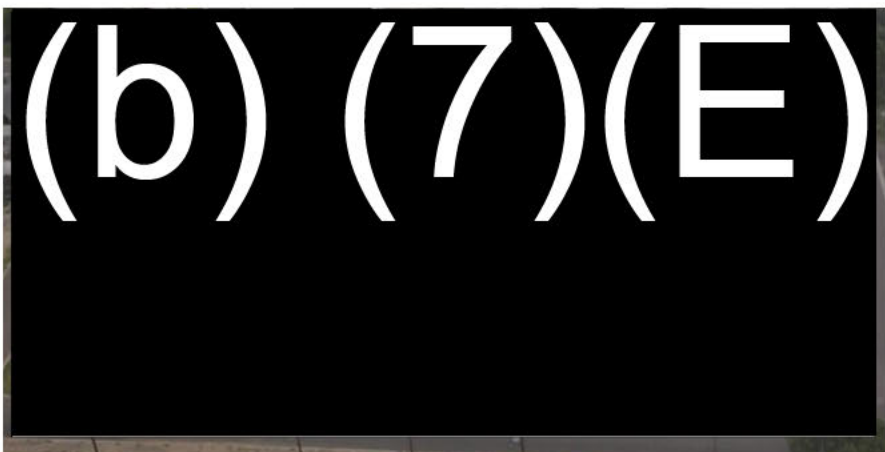
PRD Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	\$0
USACE Labor Cost (e.g. District Costs)	\$0
Construction Award Cost	\$29,994
Pending Change Request Cost	\$0
Completed Change Request Costs	\$1,473
First Year BOMR Cost Estimate BW23 FOIA CBP	(b) (5)



U.S. Customs and Border Protection



**Facilities**  
**LRT (b)(7)(E) MCA Repair Floor**  
**DK06MCA-4454**



Repair and replace flooring for two modular buildings (Main Ops Building and Muster Modular) at the (b)(7)(E) BPS.

**Progress / Risk**

**Initial Risk Estimate:** \$ (b)(5)

**Current Risk Estimate:** (b)(5)

**Major Issues:**

- Engineering, Scope, and Cost Estimating review by USACE added confidence – but also added significant time.
- USACE management costs are high percentage of total cost.

**Lessons Learned:** Could have procured engineering and IGCE from USACE upfront and procured construction through CBP.

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start	07/31/14	07/31/14	07/31/14
RE Cert	07/31/14	07/31/14	07/31/14
Environ	04/01/14	04/01/14	07/31/14
RFP	10/06/14	(b)(5)	
Award	10/20/14		
NTP	11/03/14		
Completion	01/19/15		

**Cost**



PRD Cost Estimate	(b)(5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	\$0
USACE Labor Cost (e.g. District Costs)	\$130,525
Construction Award Cost	TBD
Pending Change Request Cost	(b)(5)
Completed Change Request Costs	\$0
First Year BOMR Cost Estimate	\$0



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(b) (5) All Weather Road  
 (b) (5)

**Progress / Risk**

**Initial Risk Estimate:** \$

**Current Risk Estimate:** \$

**Major Issues:**

- None – Currently at 60% design review.

**Lessons Learned:**



Improve the road from FC2 and FC3 to all Weather Road to include drainage improvements as a MILCON Project.

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start	11/2013		
RE Cert	04/01/15	(b) (5)	
Environ	04/01/15		
RFP			
Award			
NTP	01/01/16	(b) (5)	
Completion	04/01/17		

**Cost**



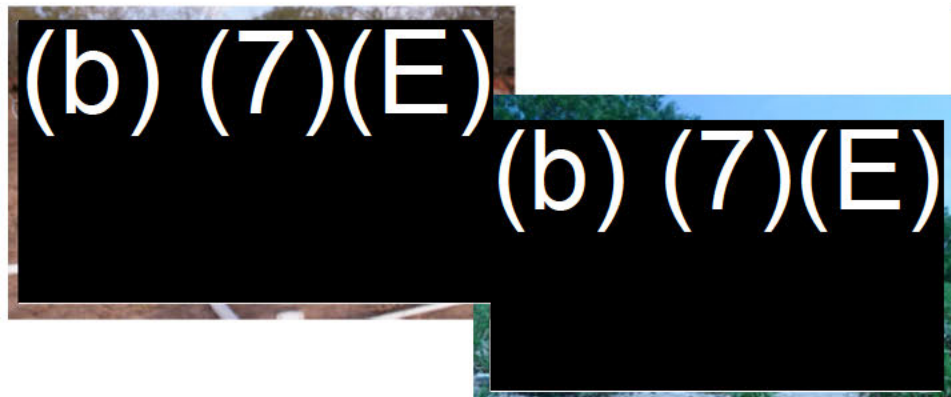
PRD Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	(b) (5)
USACE Labor Cost (e.g. District Costs)	(b) (5)
Construction Award Cost	(b) (5)
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0



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**(b) (7)(E) Road Re-Vegetation**

(b) (7)(E)



Revegetation of a total of (b) (7)(E) conducted within 3 phases to meet CBP Best Management Practices associated with the construction of the (b) (7)(E) Road.

**Progress / Risk**

**Major Issues:**

- No major issues.
- Minor issue-it was necessary to repair existing waterlines used for the irrigation system; however repairs were made and project moved forward.

**Lessons Learned:**

- Difficult to prevent non-native species from growing within parcels due to abundance of species surrounding parcels.

**Schedule**

G

Milestone	Baseline	Planned	Actual
Project Start	05/01/14	05/01/14	11/12/14
RE Cert	10/10/14	(b) (5)	(5)
Environ	10/10/14		
RFP	09/08/14		
Award	09/30/14		
NTP	10/16/14		
Completion		(b) (5)	

**Cost**

G

PRD Cost Estimate	(b) (5)
ENV Cost	
Base Year 1 Awarded 9/26/14	
Proposed Option Period 1	
Proposed Option Period 2	
Proposed Option Period 3	
Proposed Option Period 4	



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# ENV Activities TI Projects

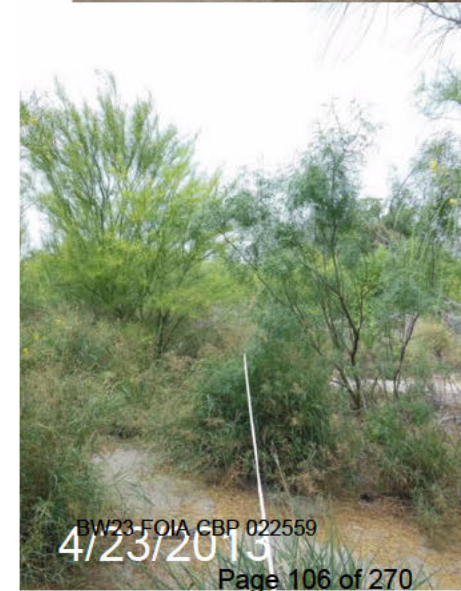
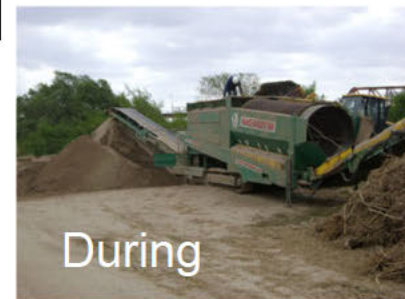
## Carrizo Cane Pilot Project

- **Background:** Carrizo Cane is an operational issue throughout the Rio Grande Valley. An EIS for removal was underway, when this pilot project was proposed to gain knowledge about removal methods. A variety of “traditional” Methods including mechanical removal, cut stem and paint, and herbicide application were performed on (b) (7)(E)

(b) (7)(E)



- **Status:** The removal is complete. Revegetation is complete. Year four (of 5 years) of monitoring indicates good regrowth, and low incidence of invasive growth
- **Cost to Date:** \$2.250 Million
- **Remaining Costs:** None
- **Schedule:** Annual report 5 by June 2015
- Annual Report 4 submitted by CBP to FWS in 2014. CBP indicated in report that success criteria for the project had been met, and requested discontinuation of annual monitoring. CBP is waiting on a response.





# ENV Activities TI Projects

## Biological Control of Carrizo Cane Project

- Background:** Carrizo Cane is an operational issue . Estimates to remove the cane using “traditional” means exceed \$176 Million. USDA/ Agricultural Research Service had been working on biocontrol . DHS S&T identified this as a promising technology. Since then the USDA work has been funded by FM&E.
- Status:** Two insects (wasp and scale) have been approved for release. A third insect (leafminer) received TAG approval for release in 1<sup>st</sup> qtr of 2015 and is projected for release in 3<sup>rd</sup> qtr of 2015. The program is on track, meeting all milestones and within budget. As a result, visibility has increased from 2m in 2007 to (b) (7)(E) in 2015. Work is ongoing to explore hybrid methods of “traditional” control coupled with biocontrol (i.e toppings).
- Remaining Costs:** \$2.87Mil 2014-2016 (3-Years @\$959,040/year). Project is fully funded. No-cost extension of POP was executed in 2014 (Project end date is now 12/2018).
- Issues:** The USDA/CBP program will need to coordinate closely with the State of Texas Carrizo Cane Program to avoid damage to biological control insects and have the greatest impact on Carrizo cane.

## Biological Control Agents



*Tetramesa romana*  
Arundo wasp

*Rhizaspidiotus donacis*  
Arundo scale

*Lasioptera donacis*  
Arundo leafminer

## Impact of Agents on Biomass

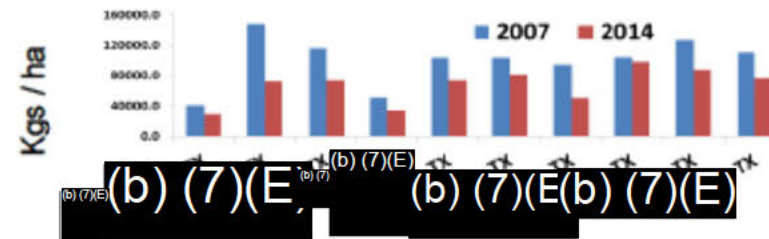


Fig. 1. Biomass at benchmark locations on the Rio Grande has been reduced by 32 ± 4% from 2007 to 2014, due primarily to damage caused by the arundo wasp.



**LRT- (b) (7)(E) Grates (b) (7)(E)**  
 (b) (7)(E)



Installation of Grates at the (b) (7)(E) to prevent access to transnational criminal organizations

**Progress / Risk**

Initial Risk Estimate: \$(b) (5)

Current Risk Estimate: (b) (5)

**Major Issues:**

- Weather – persistent rains – contractor unable to install

**Lessons Learned:**

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start			01/16/14
RE Cert	04/17/14		04/17/14
Environ	04/14/14		04/14/14
RFP	01/30/15		03/13/15
Award	02/14/15		03/25/15
NTP	02/24/15		03/25/15
Completion	03/31/15	(b) (5)	

**Cost**



PRD Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	\$15,000
USACE Labor Cost (e.g. District Costs)	\$0
Construction Award Cost - HSBP2015C00013	(b) (5)
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0



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**RGV (b)(7)(E) MCA Replace Roof and HVAC system**  
**DQ06MCA-4452**



Roof has failed and requires replacement. HVAC system nearing failure due to design and corrosion. Work to be combined and done under one contract, scheduled for FY16. A/E selection underway, due 5/13, design complete ~8/4/15. RP2000870 PR20080529 IAA=1014X00149

**Progress / Risk**

Initial Risk Estimate: (b) (5)

Current Risk Estimate: (b) (5)

**Major Issues:** potential cost - hvac and roof design/ estimates have not yet been fully established by actual design; A/E has yet to begin work. \$1,300,000 funding at USACE. Remainder expected FY 16 prior to const. award.

**Lessons Learned:** Must sequence work on impacted systems- hvac must be done prior to and concurrent with roof or severe consequences will result.

**Schedule**

G

Milestone	Baseline	Planned	Actual
Project Start	02/20/14	02/20/14	02/20/14
RE Cert	NA	NA	NA
Environ	06/05/14	06/05/14	06/05/14 (roof) 04/27/15 (hvac)
RFP, const	01/13/15	(b) (5)	
Award, const	02/27/15		
NTP, const	03/20/15		
Completion		(b) (5)	

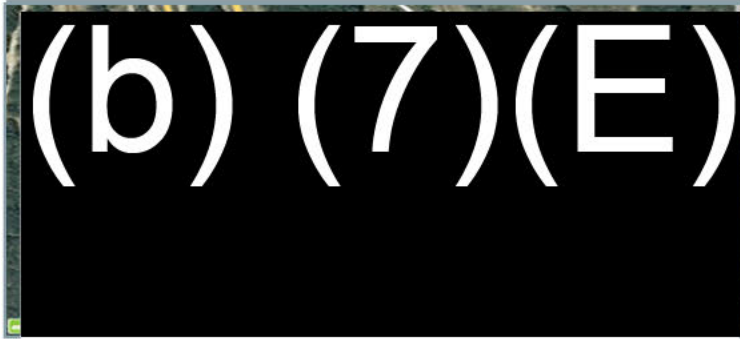
**Cost**

G

PRD Cost Estimate (with hvac)	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	
USACE Labor Cost (e.g. District Costs), incl design (\$361K)	
Construction Award Cost	
Pending Change Request Cost	
Completed Change Request Costs	
First Year BOMR Cost Estimate (~@1%)	



RGV (b)(7)(E) CON Build (b)(7)(E)  
 DQ01CON-4315



ECSC (b)(7)(E) - (b)(7)(E) with necessary improvements..

**Progress / Risk**

Initial Risk Estimate: \$(b)(5)

Current Risk Estimate

**Major Issues:**

- Funding delay will put project in hurricane season

**Lessons Learned:** Keeping people's attention and focus to the project

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start	10/18/2010	10/18/2010	10/18/2010
RE Cert	03/28/2014	(b)(5)	
Environ	03/29/2013	08/01/2014	08/01/2014
RFP	(b)(5)		
Award			
NTP			
Completion			

**Cost**



PRD Cost Estimate	(b)(5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	
USACE Labor Cost (e.g. District Costs)	
Construction Award Cost	
Pending Change Request Cost	
Completed Change Request Costs	
First Year BOMR Cost Estimate BW23	



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# Facilities

## RGV (b)(7)(E) MCA: HVAC Upgrade DQ06MCA-4438 GSA project, commercial lease facility



GSA commercial lease; lessor responsible for all work. HVAC undersized for original occupancy per CBP standards, and occupancy design. Lessor is replacing equipment at CBP direct expense. Major equipment was delivered 4/27 to site.

### Progress / Risk

Initial Risk Estimate: NA

Current Risk Estimate: NA

Major Issues: (b)(5)

Major Successes: The lessor had previously promised to partially fund (~\$200K) some of the work necessary to meet original/current requirements.

Lessons Learned: NA at this time

### Schedule G

Milestone	Baseline	Planned	Actual
Project Start	09/06/13	09/06/13	09/20/13
Design	01/20/14	09/15/14	09/15/14
RFP	NA	NA	NA
Award	02/20/14	01/23/15	1/23/15
NTP	03/20/14	02/27/15	02/27/15
Completion	(b)(5)		

### Cost G

Initial Funding: (b)(5)

Current Cost Estimate: \$1,159,000 funded

Project Budget Expensed: ~\$ 225,000+ (GSA)

Pending Change Request Cost: \$ 0

Completed Change Requests: N/A

First Year BOMR Cost Estimate: N/A (GSA comm lease)



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RGV (b)(7)(E) MCA Renovate/Expand (b)(7)(E)  
 DQ06MCA-4467

(b) (7)(E), (b) (5)

**Progress / Risk**

Initial Risk Estimate: \$(b) (5)

Current Risk Estimate (b) (5)

Major Issues: None

Major Successes: 15% Design approved

Scope: Provide (b) (7)(E)

**Schedule**

	<u>Baseline</u>	<u>Planned</u>	<u>Actual</u>
Env	01/01/15	01/01/15	09/17/14
Design	(b) (5)	(5)	
RFP			
Award			
NTP			
BOD			

**Cost**

(b) (5)



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\*PM was on vacation during slide collection – slides pulled from OTIA PMR





(b) (7)(E), (b) (5)

**Progress / Risk**

**Initial Risk Estimate:** (b) (5)

**Current Risk Estimate:** (b) (5)

**Major Issues:** None

**Major Successes:** 15% Design approved

**Scope:** Provide (b) (7)(E)

**Schedule**

	<u>Baseline</u>	<u>Planned</u>	<u>Actual</u>
Env	01/01/15	01/01/15	09/17/14
Design	(b) (5)	(5)	(5)
RFP			
Award			
NTP			
BOD			

**Cost**

(b) (5)



**RGV (b)(7)(E) MCA Renovate/Expand (b)(7)(E)**  
**DQ06MCA-4469**

(b) (7)(E), (b) (5)

**Progress / Risk**

**Initial Risk Estimate:** (b) (5)

**Current Risk Estimate:** (b) (5)

**Major Issues:** None

**Major Successes:** 15% Design approved

**Scope:** Provide (b) (7)(E)

**Schedule**

	<u>Baseline</u>	<u>Planned</u>	<u>Actual</u>
Env	01/01/15	01/01/15	09/17/14
Design	(b) (5)	(5)	(5)
RFP			
Award			
NTP			
BOD			

**Cost**

(b) (5)



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(b) (7)(E), (b) (5)

**Progress / Risk**

**Initial Risk Estimate:** (b) (5)

**Current Risk Estimate:** (b) (5)

**Major Issues:** FY15 and prior year FC&S funding pulled for new CP. Planned funding for FY16.

**Major Successes:** New CP design complete; RFP for new CP ready

**Scope:** Provide (b) (7)(E)

**Schedule**

	<u>Baseline</u>	<u>Planned</u>	<u>Actual</u>
Env	01/01/15	01/01/15	09/17/14
Design	(b) (5)	(5)	(5)
RFP			
Award			
NTP			
BOD			

**Cost**

(b) (5)





(b) (7)(E), (b) (5)

**Progress / Risk**

**Initial Risk Estimate:** (b) (5)

**Current Risk Estimate:** (b) (5)

**Major Issues:** None

**Major Successes:** 15% Design approved

**Scope:** Provide (b) (7)(E)

**Schedule**

	<u>Baseline</u>	<u>Planned</u>	<u>Actual</u>
Env	01/01/15	01/01/15	09/17/14
Design	(b) (5)	(5)	(5)
RFP			
Award			
NTP			
BOD			

**Cost**

(b) (5)





**RGV (b)(7)(E) MCA Renovate/Expand (b)(7)(E)**  
**DQ06MCA-4472**

(b)(7)(E), (b)(5)

**Progress / Risk**

**Initial Risk Estimate:** (b)(5)

**Current Risk Estimate:** (b)(5)

**Major Issues:** None

**Major Successes:** 15% Design approved

**Scope:** Provide (b)(7)(E)

**Schedule**

	<u>Baseline</u>	<u>Planned</u>	<u>Actual</u>
Env	01/01/15	01/01/15	09/17/14
Design	(b)(5)	(5)	(5)
RFP			
Award			
NTP			
BOD			

**Cost**

(b)(5)



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(b) (7)(E), (b) (5)

**Progress / Risk**

Initial Risk Estimate: (b) (5)

Current Risk Estimate (b) (5)

Major Issues: None

Major Successes: 15% Design submitted for review

Scope: Provide (b) (7)(E)

**Schedule**

	<u>Baseline</u>	<u>Planned</u>	<u>Actual</u>
Env	01/01/15	01/01/15	09/17/14
Design	(b) (5)	(5)	
RFP			
Award			
NTP			
BOD			

**Cost**

(b) (5)





(b) (7)(E), (b) (5)

**Progress / Risk**

Initial Risk Estimate: (b) (5)

Current Risk Estimate: (b) (5)

Major Issues: None

Major Successes: 15% Design approved

Scope: Provide (b) (7)(E)

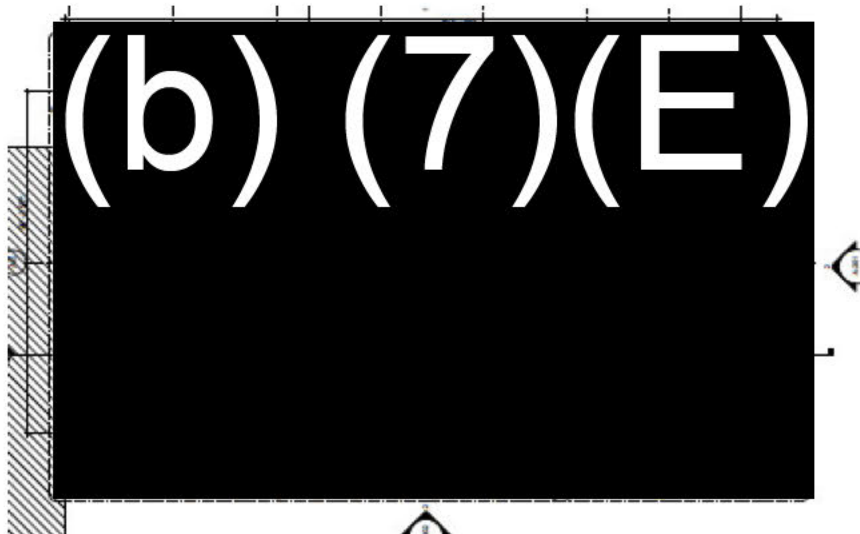
**Schedule**

	<u>Baseline</u>	<u>Planned</u>	<u>Actual</u>
Env	01/01/15	01/01/15	09/17/14
Design	(b) (5)		
RFP			
Award			
NTP			
BOD			

**Cost**

(b) (5)





**Progress / Risk**

Initial Risk Estimate: (b) (5)

Current Risk Estimate (b) (5)

**Major Issues:**

- (b) (5)

**Lessons Learned:**

Flexibility is key to working in this type of dynamic environment.

**Schedule**

G

Milestone	Baseline	Planned	Actual
Project Start	12/11/14	09/03/14	09/03/14
RE Cert	(b) (5)		
Environ	06/19/14	06/19/14	06/19/14
RFP	(b) (5)		
Award			
NTP			
Completion			

**Cost**

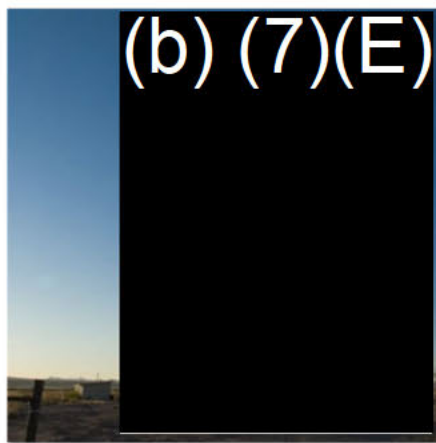
G

PRD Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	
USACE Labor Cost (e.g. District Costs)	
Construction Award Cost	
Pending Change Request Cost	
Completed Change Request Costs	
First Year BOMR Cost Estimate BW23	





**Towers**  
**RGV (b)(7)(E) Upgrade Field Tower and Access Road Design (b)(7)(E)**  
**T500-1**



Project provides ROE-S/ENV/ Design for (b)(7)(E) tower sites (b)(7)(E)  
 (b)(7)(E) Project is currently only partially funded.

**Progress / Risk**

Initial Risk Estimate: \$(b)(5)

Current Risk Estimate: (b)(5)

**Major Issues:**

- (b)(7)(E) in IBWC Flood Plain
- Obtaining ROE-SEs for (b)(7)(E) sites

**Lessons Learned:** Encourage business partners to engage FM&E earlier in the process.

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start	06/11/14	06/11/14	06/11/14
RE CERT	(b)(5)		
Environ			
RFP	NA	NA	NA
Award	NA	NA	NA
NTP	NA	NA	NA
Completion	NA	NA	NA

**Cost**



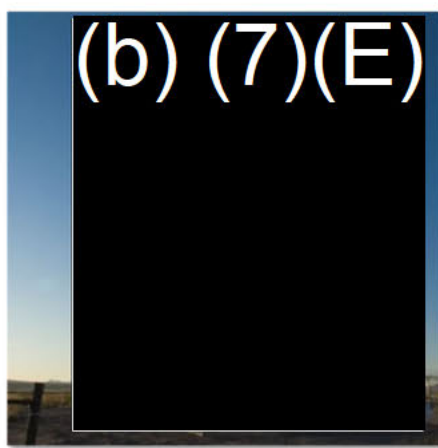
PRD Cost Estimate	(b)(5)
RE & ENV Cost (ENV: Fully Funded, RE: Funded for ROE-SE)	
USACE Labor Cost (15% Design only)	
Construction Award Cost (Estimate per Site, beyond the scope of PRD)	
Pending Change Request Cost	
Completed Change Request Costs	\$0



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BW21 EOIA CBP 022574

**Towers**  
**RGV (b)(7)(E) Upgrade Field Tower and Access Road Design (b)(7)(E)**  
**T500-2**



Project provides ROE-S/ENV/ Design for tower sites (b)(7)(E)  
 Project is currently only partially funded.

**Progress / Risk**

Initial Risk Estimate: \$(b)(5)

Current Risk Estimate

**Major Issues:**

- (b)(7)(E) in IBWC Flood Plain
- Obtaining ROE-SEs for (b)(7)(E) sites

**Lessons Learned:** Encourage business partners to engage FM&E earlier in the process.

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start	06/11/14	06/11/14	06/11/14
RE CERT	(b)(5)		
Environ			
RFP	NA	NA	NA
Award	NA	NA	NA
NTP	NA	NA	NA
Completion	NA	NA	NA

**Cost**

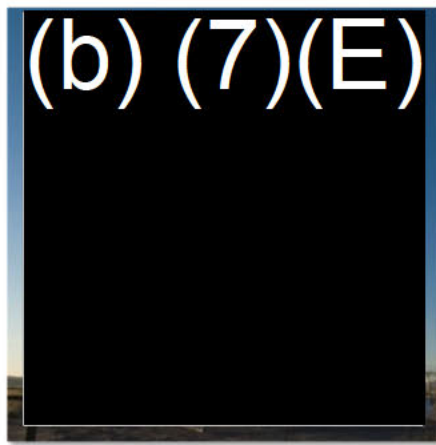
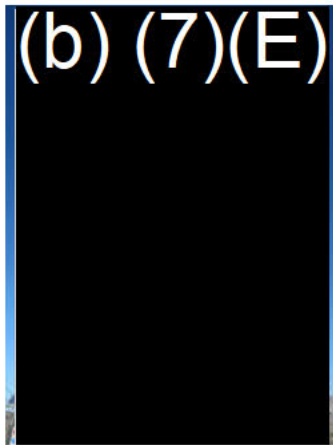


PRD Cost Estimate	(b)(5)
RE & ENV Cost (ENV: Fully Funded, RE: Funded for ROE-SE)	
USACE Labor Cost (15% Design only)	
Construction Award Cost (Estimate per Site, beyond the scope of PRD)	
Pending Change Request Cost	
Completed Change Request Costs	\$0



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**Towers**  
**RGV (b)(7)(E) Upgrade Field Tower and Access Road Design (b)(7)(E)**  
**T500-3**



Project provides ROE-S/ENV/ Design for (b)(7)(E) tower sites (b)(7)(E) (b)(7)(E) Project is currently only partially funded.

**Progress / Risk**

Initial Risk Estimate: (b)(5)

Current Risk Estimate (b)(5)

**Major Issues:**

- (b)(7)(E) in IBWC Flood Plain
- Obtaining ROE-SEs for (b)(7)(E) sites

**Lessons Learned:** Encourage business partners to engage FM&E earlier in the process.

**Schedule**

G

Milestone	Baseline	Planned	Actual
Project Start	06/11/14	06/11/14	06/11/14
RE CERT	(b)(5)		
Environ			
RFP	NA	NA	NA
Award	NA	NA	NA
NTP	NA	NA	NA
Completion	NA	NA	NA

**Cost**

G

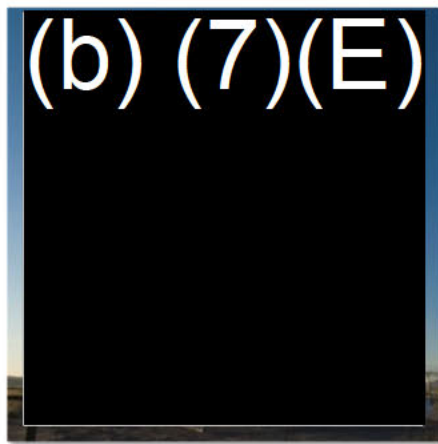
PRD Cost Estimate	(b)(5)
RE & ENV Cost (ENV: Fully Funded, RE: Funded for ROE-SE)	
USACE Labor Cost (15% Design only)	
Construction Award Cost (Estimate per Site, beyond the scope of PRD)	
Pending Change Request Cost	
Completed Change Request Costs	\$0



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**Towers**  
**RGV (b)(7)(E) Upgrade Field Tower and Access Road Design (b)(7)(E)**  
**T500-4**



Project provides ROE-S/ENV/ Design for (b)(7)(E) tower sites (b)(7)(E)  
 Project is currently only partially funded.

**Progress / Risk**

Initial Risk Estimate: (b)(5)

Current Risk Estimate (b)(5)

**Major Issues:**

- Obtaining ROE-SEs for (b)(7)(E) sites

**Lessons Learned:** Encourage business partners to engage FM&E earlier in the process.

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start	06/11/14	06/11/14	06/11/14
RE CERT	(b)(5)		
Environ			
RFP	NA	NA	NA
Award	NA	NA	NA
NTP	NA	NA	NA
Completion	NA	NA	NA

**Cost**



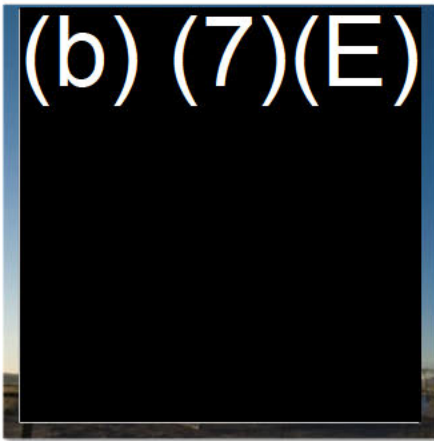
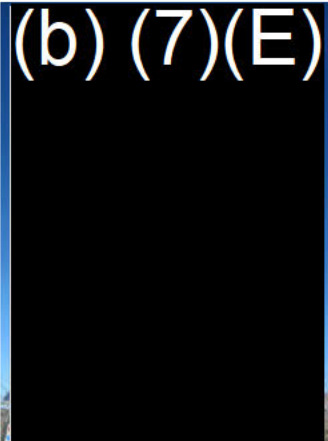
PRD Cost Estimate	(b)(5)
RE & ENV Cost (ENV: Fully Funded, RE: Funded for ROE-SE)	
USACE Labor Cost (15% Design only)	
Construction Award Cost (Estimate per Site, beyond the scope of PRD)	(b)(5)
Pending Change Request Cost	
Completed Change Request Costs	\$0



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**RGV (b)(7)(E) Upgrade Field Tower and Access Road Design (b)(7)(E)**

T500-5



Project provides ROE-S/ENV/ Design for tower sites (b)(7)(E) )  
 Project is currently only partially funded.

**Progress / Risk**

Initial Risk Estimate: (b)(5)

Current Risk Estimate (b)(5)

**Major Issues:**

- Obtaining ROE-SEs for (b)(7)(E) sites

**Lessons Learned:** Encourage business partners to engage FM&E earlier in the process.

**Schedule**

G

Milestone	Baseline	Planned	Actual
Project Start	06/11/14	06/11/14	06/11/14
RE CERT	(b)(5)		
Environ			
RFP	NA	NA	NA
Award	NA	NA	NA
NTP	NA	NA	NA
Completion	NA	NA	NA

**Cost**

G

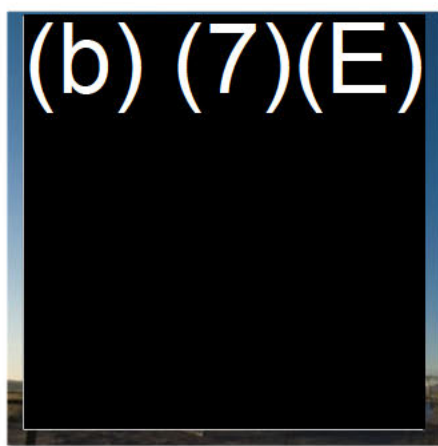
PRD Cost Estimate	(b)(5)
RE & ENV Cost (ENV: Fully Funded, RE: Funded for ROE-SE)	
USACE Labor Cost (15% Design only)	
Construction Award Cost (Estimate per Site, beyond the scope of PRD)	
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0



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**Towers**  
**RGV (b)(7)(E) Upgrade Field Tower and Access Road Design (b)(7)(E)**

T500-6



Project provides ROE-S/ENV/ Design for (b)(7)(E) tower sites (b)(7)(E) (b)(7)(E) Project is currently only partially funded.

**Progress / Risk**

Initial Risk Estimate: \$(b)(5)

Current Risk Estimate: (b)(5)

**Major Issues:**

- (b)(7)(E) Sites in IBWC Flood Plain
- Obtaining ROE-SEs for (b)(7)(E)

**Lessons Learned:** Encourage business partners to engage FM&E earlier in the process.

**Schedule**

G

Milestone	Baseline	Planned	Actual
Project Start	06/11/14	06/11/14	06/11/14
RE CERT	(b)(5)		
Environ			
RFP	NA	NA	NA
Award	NA	NA	NA
NTP	NA	NA	NA
Completion	NA	NA	NA

**Cost**

G

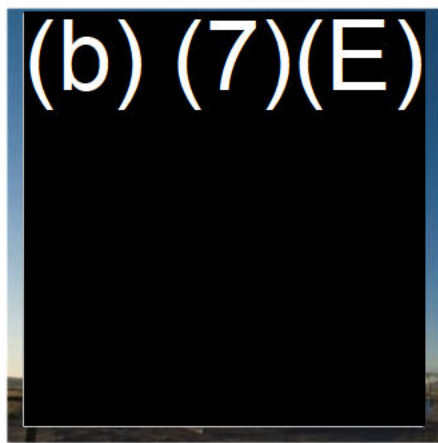
PRD Cost Estimate	(b)(5)
RE & ENV Cost (ENV: Fully Funded, RE: Funded for ROE-SE)	
USACE Labor Cost (15% Design only)	
Construction Award Cost (Estimate per Site, beyond the scope of PRD)	
Pending Change Request Cost	
Completed Change Request Costs	\$0



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**Towers**  
**RGV (b)(7)(E) Upgrade Field Tower and Access Road Design (b)(7)(E)**  
**T500-7**



Project provides ROE-S/ENV/ Design for (b)(7)(E) tower sites (b)(7)(E) Alter) Project is currently only partially funded.

**Progress / Risk**

Initial Risk Estimate: (b)(5)

Current Risk Estimate

**Major Issues:**

- (b)(7)(E) Sites in IBWC Flood Plain
- Obtaining ROE-SEs for (b)(7)(E)

**Lessons Learned:** Encourage business partners to engage FM&E earlier in the process.

**Schedule**

G

Milestone	Baseline	Planned	Actual
Project Start	06/11/14	06/11/14	06/11/14
RE CERT	(b)(5)		
Environ			
RFP	NA	NA	NA
Award	NA	NA	NA
NTP	NA	NA	NA
Completion	NA	NA	NA

**Cost**

G

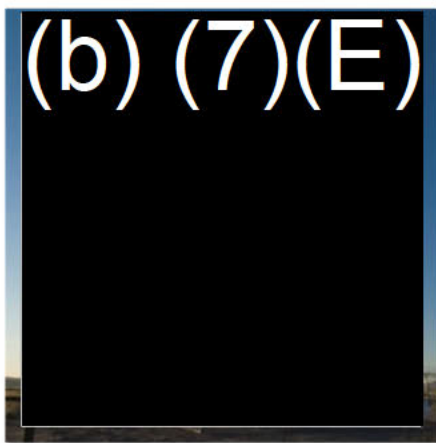
PRD Cost Estimate	(b)(5)
RE & ENV Cost (ENV: Fully Funded, RE: Funded for ROE-SE)	
USACE Labor Cost (15% Design only)	
Construction Award Cost (Estimate per Site, beyond the scope of PRD)	
Pending Change Request Cost	
Completed Change Request Costs	\$0



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**Towers**  
**RGV (b)(7)(E) Upgrade Field Tower and Access Road Design (b)(7)(E)**  
**T500-8**



Project provides ROE-S/ENV/ Design for (b)(7)(E) tower sites (b)(7)(E) (b)(7)(E) Project is currently only partially funded.

**Progress / Risk**

Initial Risk Estimate: \$ (b)(5)

Current Risk Estimate: (b)(5)

**Major Issues:**

- (b)(7)(E) in IBWC Flood Plain
- Obtaining ROE-SE's for (b)(7)(E) sites

**Lessons Learned:** Encourage business partners to engage FM&E earlier in the process.

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start	06/11/14	06/11/14	06/11/14
RE CERT	(b)(5)		
Environ			
RFP	NA	NA	NA
Award	NA	NA	NA
NTP	NA	NA	NA
Completion	NA	NA	NA

**Cost**



PRD Cost Estimate	(b)(5)
RE & ENV Cost (ENV: Fully Funded, RE: Funded for ROE-SE)	
USACE Labor Cost (15% Design only)	
Construction Award Cost (Estimate per Site, beyond the scope of PRD)	
Pending Change Request Cost	
Completed Change Request Costs	\$0

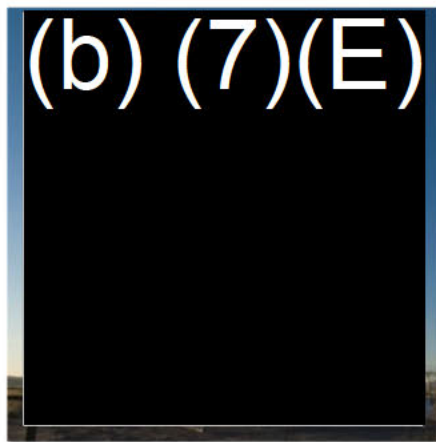


U.S. Customs and Border Protection

# Towers

## RGV Legacy Tower Upgrades

### T510-1



Provide tower remediation to (b)(7)(E) towers to meet (b)(7)(E) requirements.

### Progress / Risk

Initial Risk Estimate: TBD

Current Risk Estimate: TBD

#### Major Issues:

- We are awaiting requirements from OTIA

Lessons Learned: TBD

### Schedule



Milestone	Baseline	Planned	Actual
Project Start	08/14	08/14	06/11/14
RE Cert	(b)(5)	(5)	
Environ			
RFP			
Award			
NTP			
Completion			

### Cost



PRD Cost Estimate	(b)(5)
RE & ENV Budgeted Cost	(b)(5)
FAA Budgeted Labor Cost	(b)(5)
Construction Budgeted Award Cost	(b)(5)
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0

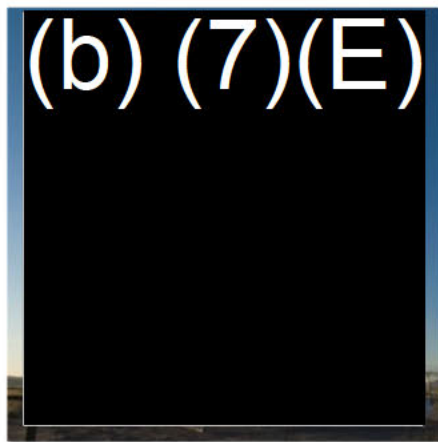


U.S. Customs and Border Protection

# Towers

## RGV Legacy Tower Upgrades

### T510-2



Provide tower remediation to (b)(7)(E) towers to meet (b)(7)(E) requirements.

### Progress / Risk

**Initial Risk Estimate:** TBD

**Current Risk Estimate:** TBD

**Major Issues:**

- We are awaiting requirements from OTIA

**Lessons Learned:** TBD

### Schedule



Milestone	Baseline	Planned	Actual
Project Start	08/14	08/14	06/11/14
RE Cert	(b)(5)	(5)	
Environ			
RFP			
Award			
NTP			
Completion			

### Cost



PRD Cost Estimate	(b)(5)
RE & ENV Budgeted Cost	(b)(5)
FAA Budgeted Labor Cost	(b)(5)
Construction Budgeted Award Cost	(b)(5)
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0



U.S. Customs and Border Protection

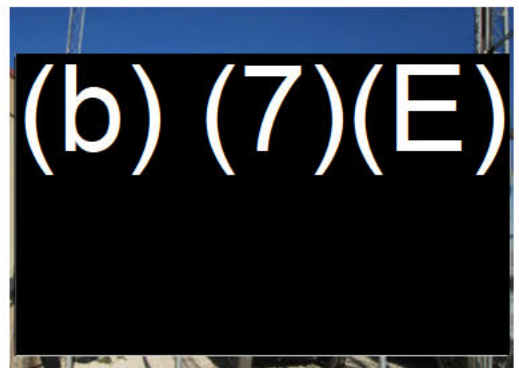




# Towers

## RGV Station Tower - (b) (7)(E)

### T520-1



Provide initial design, planning and project development for upgrades to the station tower(s) to meet the (b) (7)(E) requirements.

### Progress / Risk

Initial Risk Estimate: \$ (b) (5)

Current Risk Estimate: (b) (5)

#### Major Issues:

- Per PRD, Schedule will be set for project after 35% submittal along with Station specific PRD

**Lessons Learned:** Work with business partners to better explain the limitations of a preliminary schedule.

### Schedule G

Milestone	Baseline	Planned	Actual
Project Start	(b) (5)		
35% Design	03/16/15	(b) (5)	
RE Cert	NA	NA	NA
Environ	TBD	TBD	TBD
RFP	TBD	TBD	TBD
Award	TBD	TBD	TBD
NTP	TBD	TBD	TBD
Completion	TBD	TBD	TBD

### Cost G

PRD Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	
FAA Labor Cost (e.g. District Costs)	
Construction Budgeted Award Cost	
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0



U.S. Customs and Border Protection

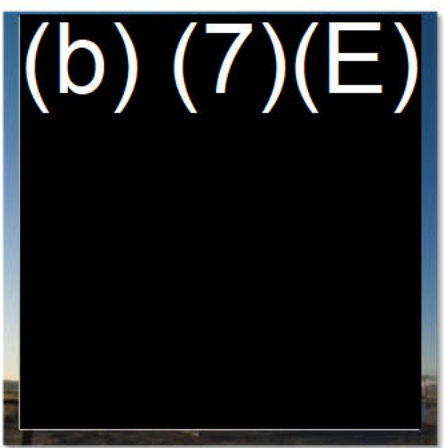
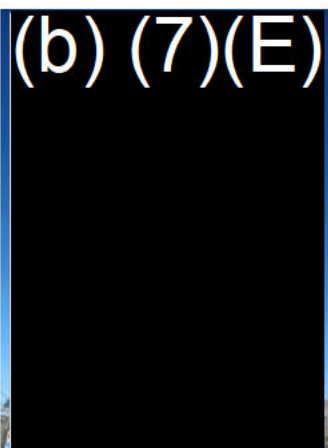




# Towers

## RGV Legacy Tower Upgrades

### T510-3



Provide tower remediation to (b)(7)(E) towers to meet (b)(7)(E) requirements.

### Progress / Risk

Initial Risk Estimate: TBD

Current Risk Estimate: TBD

**Major Issues:**

- We are awaiting requirements from OTIA

Lessons Learned: TBD

### Schedule



Milestone	Baseline	Planned	Actual
Project Start	08/14	08/14	06/11/14
RE Cert	(b)(5)	(5)	
Environ			
RFP			
Award			
NTP			
Completion			

### Cost



PRD Cost Estimate	(b)(5)
RE & ENV Budgeted Cost	
FAA Budgeted Labor Cost	
Construction Budgeted Award Cost	
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0



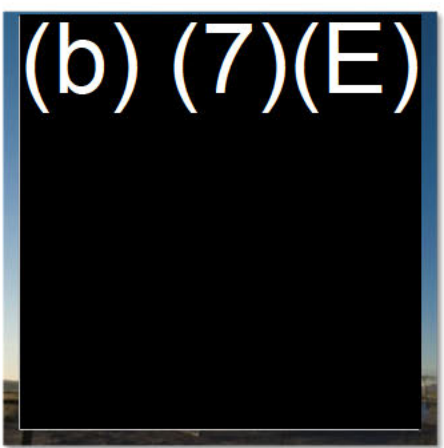
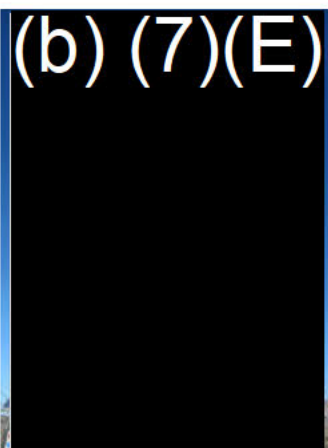
U.S. Customs and Border Protection



# Towers

## RGV Legacy Tower Upgrades

### T510-4



Provide tower remediation to (b)(7)(E) towers to meet (b)(7)(E) requirements.

### Progress / Risk

Initial Risk Estimate: TBD

Current Risk Estimate: TBD

#### Major Issues:

- We are awaiting requirements from OTIA

Lessons Learned: TBD

### Schedule



Milestone	Baseline	Planned	Actual
Project Start	08/14	08/14	06/11/14
RE Cert	(b)(5)	(5)	
Environ			
RFP			
Award			
NTP			
Completion			

### Cost



PRD Cost Estimate	(b)(5)
RE & ENV Budgeted Cost	
FAA Budgeted Labor Cost	
Construction Budgeted Award Cost	
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0



U.S. Customs and Border Protection

# Towers

## RGV Station Tower (b)(7)(E) Station T520-2

### Progress / Risk

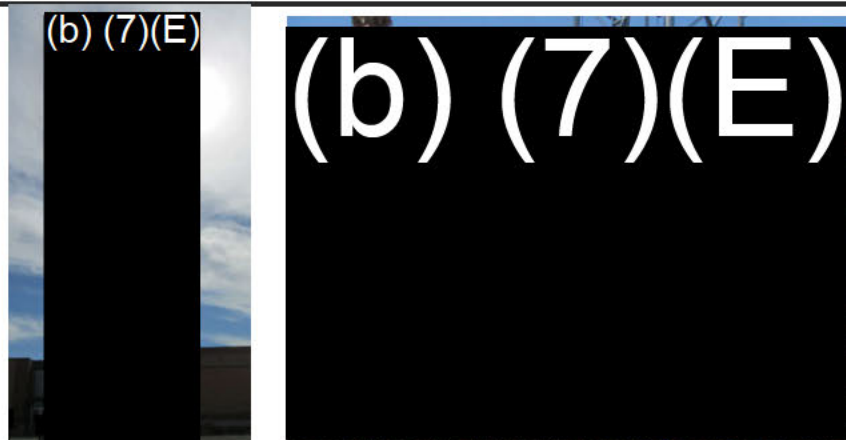
Initial Risk Estimate: \$(b)(5)

Current Risk Estimate: (b)(5)

#### Major Issues:

- A FAA waiver is required to meet the requested tower height. This process will affect the critical path.
- Per PRD, Schedule will be set for project after 35% submittal along with Station specific PRD

**Lessons Learned:** Work with business partners to better explain the limitations of a preliminary schedule.



Provide initial design, planning and project development for upgrades to the station tower(s) to meet the (b)(7)(E) requirements.

### Schedule G

Milestone	Baseline	Planned	Actual
Project Start	06/11/14	06/11/14	11/20/14
35% Design	(b)(5)		
RE Cert	NA	NA	NA
Environ	TBD	TBD	TBD
RFP	TBD	TBD	TBD
Award	TBD	TBD	TBD
NTP	TBD	TBD	TBD
Completion	TBD	TBD	TBD

### Cost G

PRD Cost Estimate	(b)(5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	(b)(5)
FAA Labor Cost (e.g. District Costs)	(b)(5)
Construction Budgeted Award Cost	(b)(5)
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0



U.S. Customs and Border Protection



# Towers

## RGV Station Tower-(b)(7)(E) Station T520-3

### Progress / Risk

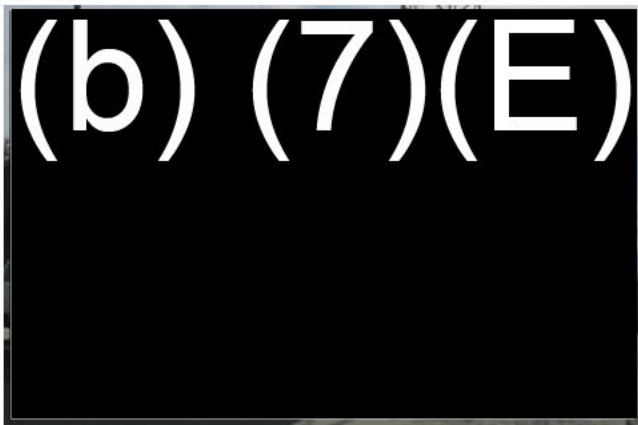
Initial Risk Estimate: \$(b)(5)

Current Risk Estimate: (b)(5)

#### Major Issues:

- A FAA waiver is required to meet the requested tower height. This process will affect the critical path.
- Per PRD, Schedule will be set for project after 35% submittal along with Station specific PRD

**Lessons Learned:** Work with business partners to better explain the limitations of a preliminary schedule.



Provide initial design, planning and project development for upgrades to the station tower(s) to meet the (b)(7)(E) requirements.

### Schedule G

Milestone	Baseline	Planned	Actual
Project Start	06/11/14	06/11/14	11/20/14
35% Design	(b)(5)		
RE Cert	NA	NA	NA
Environ	TBD	TBD	TBD
RFP	TBD	TBD	TBD
Award	TBD	TBD	TBD
NTP	TBD	TBD	TBD
Completion	TBD	TBD	TBD

### Cost G

PRD Cost Estimate	(b)(5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	(b)(5)
FAA Labor Cost (e.g. District Costs)	(b)(5)
Construction Budgeted Award Cost	(b)(5)
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0



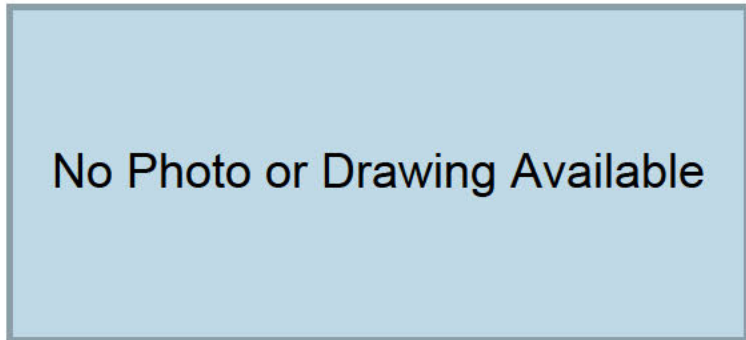
U.S. Customs and Border Protection



# Towers

## RGV Station Tower (b)(7)(E) Checkpoint

### T520-4



Provide initial design, planning and project development for upgrades to the station tower(s) to meet the (b)(7)(E) requirements.

### Progress / Risk

Initial Risk Estimate: (b)(5)

Current Risk Estimate (b)(5)

**Major Issues:**

- (b)(7)(E), (b)(5) existing Checkpoint
- Working with OTIA to determine best path forward

### Schedule G

Milestone	Baseline	Planned	Actual
Project Start	06/11/14	06/11/14	11/20/14
35% Design	(b)(5)		
RE Cert	NA	NA	NA
Environ	TBD	TBD	TBD
RFP	TBD	TBD	TBD
Award	TBD	TBD	TBD
NTP	TBD	TBD	TBD
Completion	TBD	TBD	TBD

### Cost G

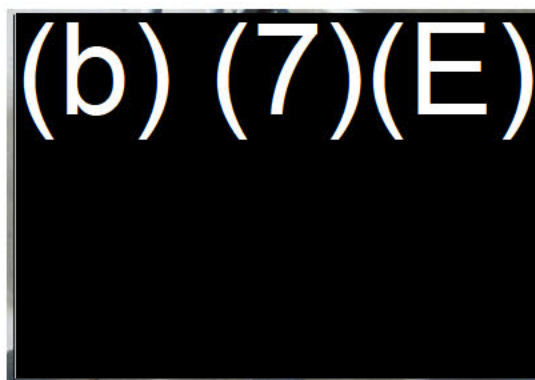
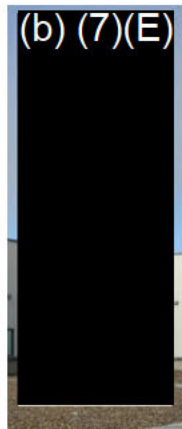
PRD Cost Estimate	(b)(5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	
FAA Labor Cost (e.g. District Costs)	
Construction Budgeted Award Cost	
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0



U.S. Customs and Border Protection

# Towers

## RGV Station Tower (b)(7)(E) Station T520-5



Provide initial design, planning and project development for upgrades to the station tower(s) to meet the (b)(7)(E) requirements.

### Progress / Risk

Initial Risk Estimate: (b)(5)

Current Risk Estimate (b)(5)

#### Major Issues:

- A FAA waiver is required to meet the requested tower height. This process will affect the critical path.
- Per PRD, Schedule will be set for project after 35% submittal along with Station specific PRD

**Lessons Learned:** Work with business partners to better explain the limitations of a preliminary schedule.

### Schedule G

Milestone	Baseline	Planned	Actual
Project Start	06/11/14	06/11/14	11/20/14
35% Design	(b)(5)		
RE Cert	NA	NA	NA
Environ	TBD	TBD	TBD
RFP	TBD	TBD	TBD
Award	TBD	TBD	TBD
NTP	TBD	TBD	TBD
Completion	TBD	TBD	TBD

### Cost G

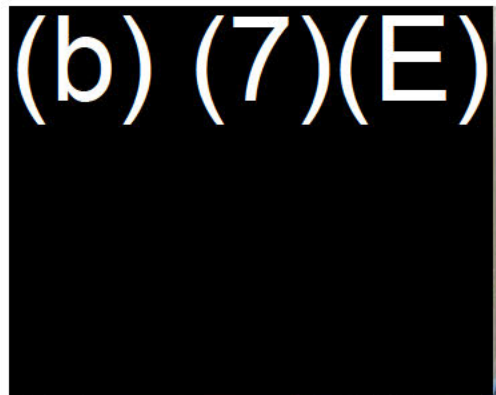
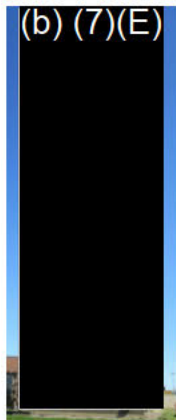
PRD Cost Estimate	(b)(5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	
FAA Labor Cost (e.g. District Costs)	
Construction Budgeted Award Cost	
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0



U.S. Customs and Border Protection

# Towers

## RGV Station Tower- (b) (7)(E) Station T520-6



Provide initial design, planning and project development for upgrades to the station tower(s) to meet the (b) (7)(E) requirements.

### Progress / Risk

Initial Risk Estimate: \$(b) (5)

Current Risk Estimate:

### Major Issues:

- During the 15% Design Review it was determined that TMRP will provide space (b) (7)(E). The team is confirming what scope is still required.

**Lessons Learned:** Work with business partners to better explain the limitations of a preliminary schedule.

### Schedule

G

Milestone	Baseline	Planned	Actual
Project Start	06/11/14	06/11/14	11/20/14
15% Design	02/13/15	04/14/15	04/14/15
RE Cert			
Environ			
RFP			
Award			
NTP			
Completion			

### Cost

G

PRD Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	(b) (5)
FAA Labor Cost (e.g. District Costs)	(b) (5)
Construction Budgeted Award Cost	(b) (5)
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0



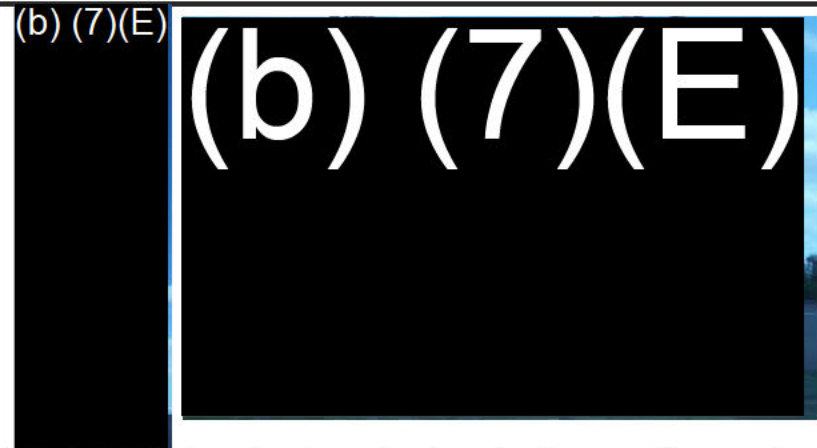
U.S. Customs and Border Protection





# Towers

## RGV Station Tower - (b) (7)(E) Station T520-7



Provide initial design, planning and project development for upgrades to the station tower(s) to meet the (b) (7)(E) requirements.

### Progress / Risk

Initial Risk Estimate: (b) (5)

Current Risk Estimate (b) (5)

### Major Issues:

- During the 15% Design Review it was determined that TMRP will provide space (b) (7)(E). The team is confirming what scope is still required.

**Lessons Learned:** Work with business partners to better explain the limitations of a preliminary schedule.

### Schedule



Milestone	Baseline	Planned	Actual
Project Start	06/11/14	06/11/14	11/20/14
15% Design	02/13/15	04/14/15	04/14/15
RE Cert			
Environ			
RFP			
Award			
NTP			
Completion			

### Cost



PRD Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	(b) (5)
FAA Labor Cost (e.g. District Costs)	(b) (5)
Construction Budgeted Award Cost	(b) (5)
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0



U.S. Customs and Border Protection



# Towers

## RGV Station Tower - (b)(7)(E) Station T520-8

(b)(7)(E)

(b)(7)(E)

Provide initial design, planning and project development for upgrades to the station tower(s) to meet the (b)(7)(E) requirements.

### Progress / Risk

Initial Risk Estimate: \$(b)(5)

Current Risk Estimate

### Major Issues:

- During the 15% Design Review it was determined that TMRP will provide space (b)(7)(E). The team is confirming what scope is still required.

**Lessons Learned:** Work with business partners to better explain the limitations of a preliminary schedule.

### Schedule G

Milestone	Baseline	Planned	Actual
Project Start	06/11/14	06/11/14	11/20/14
15% Design	02/13/15	04/14/15	04/14/15
RE Cert			
Environ			
RFP			
Award			
NTP			
Completion			

### Cost G

PRD Cost Estimate	(b)(5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	(b)(5)
FAA Labor Cost (e.g. District Costs)	(b)(5)
Construction Budgeted Award Cost	(b)(5)
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0



U.S. Customs and Border Protection

(b) (7)(E) RGV (b) (7)(E) Border & Access Roads

(b) (7)(E)



Project Completed 4/17/2015; USFWS Road way for (b) (7)(E) Road. CTIMR to perform minor punch list items that were not performed due to substantial rains.

**Progress / Risk**

Initial Risk Estimate: (b) (5)

Current Risk Estimate: \$ 0

**Major Issues:**

- Marines were unable to complete some minor details due to persistent rains.

**Lessons Learned:**

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start	08/27/12		08/24/12
RE Cert	09/28/12		04/08/13
Environ	07/01/13		07/01/13
RFP			
Award			
NTP	07/15/13		07/15/13
Completion	08/30/13		04/17/15

**Cost**



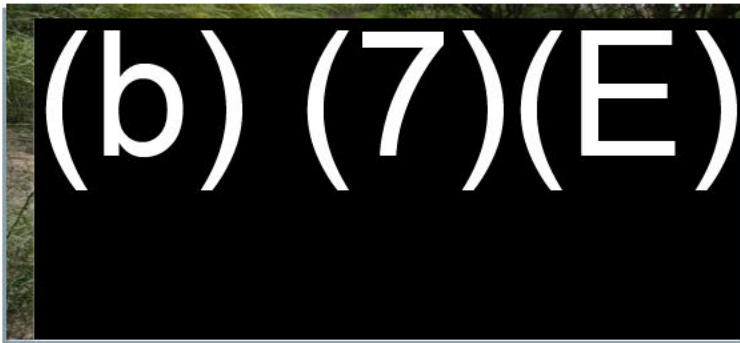
PRD Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	
USACE Labor Cost (e.g. District Costs)	
Construction Award Cost	
Pending Change Request Cost	\$
Completed Change Request Costs	\$



U.S. Customs and Border Protection

NI RGV (b)(7)(E) Repair (b)(7)(E) Boat Ramp (b)(7)(E)

Agency PM:



Upgrade ramp to concrete paving using BPFTI Boat Ramp Design Standard and adjust slope. Ramp has a 6 ft drop off before it gets into the water. Work to be done under CTIMR.

**Progress / Risk**

Initial Risk Estimate: (b) (5)

Current Risk Estimate (b) (5)

**Major Issues:**

- Weather – Persistent rains and uneven river bottom driving schedule to the right. High river flows from MX reservoir releases overtopped cofferdam.

**Lessons Learned:** execute during dry season of October to February

**Schedule**

G

Milestone	Baseline	Planned	Actual
Project Start			
RE Cert	03/31/14		03/31/14
Environ	09/18/14		09/18/14
RFP	02/03/15		
Award	02/18/15		
NTP	02/18/15	02/18/15	02/27/15
Completion	04/28/15	(b) (5)	

**Cost**

G

PRD Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	(b) (5)
USACE Labor Cost (e.g. District Costs)	(b) (5)
Construction Award Cost	(b) (5)
Pending Change Request Cost	\$
Completed Change Request Costs	\$



U.S. Customs and Border Protection



**NI RGV (b)(7)(E) Improve (b)(7)(E) Boat Ramp (b)(7)(E)**  
 (b)(7)(E)

Agency PM:

**Progress / Risk**

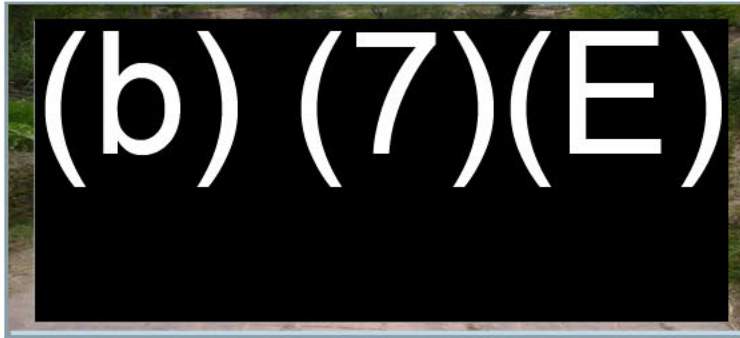
Initial Risk Estimate: (b)(5)

Current Risk Estimate (b)(5)

**Major Issues:**

- Have not received IBWC concurrence

**Lessons Learned:**



Upgrade ramp to concrete paving using BPFTI Boat Ramp Design Standard and adjust slope. Ramp has a 4 ft drop off before it gets into the water. Work to be done under CTIMR..

**Schedule**

G

Milestone	Baseline	Planned	Actual
Project Start			
RE Cert	03/16/14		12/16/14
Environ	04/30/15	05/15/15	
RFP			
Award			
NTP	(b)(5)		
Completion	(b)(5)		

**Cost**

G

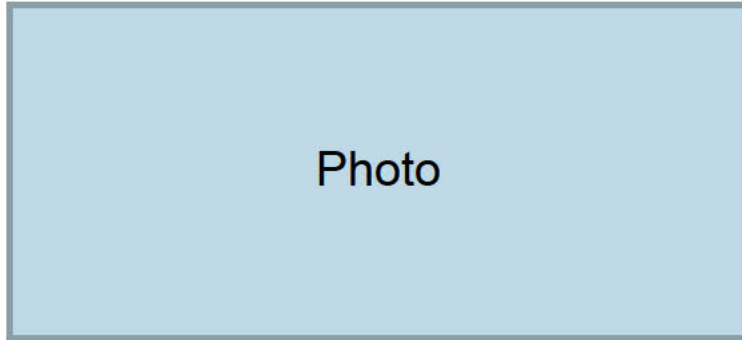
PRD Cost Estimate	(b)(5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	(b)(5)
USACE Labor Cost (e.g. District Costs)	\$0
Construction Award Cost	\$0
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0



U.S. Customs and Border Protection



**(b) (5)**



*Project simple description is here, just a two sentence explanation of the project..*

### Progress / Risk

**Initial Risk Estimate: \$**

**Current Risk Estimate: \$**

**Major Issues:**

- <note if issue will affect critical path - & which milestone>

**Lessons Learned:**

### Schedule



Milestone	Baseline	Planned	Actual
Project Start			
RE Cert			
Environ			
RFP			
Award			
NTP			
Completion			

### Cost



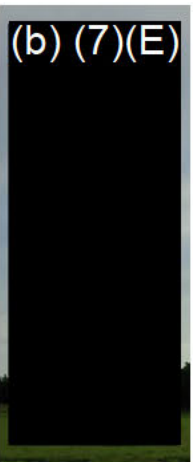
PRD Cost Estimate	\$
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	\$
USACE Labor Cost (e.g. District Costs)	\$
Construction Award Cost	\$
Pending Change Request Cost	\$
Completed Change Request Costs	\$
First Year BOMR Cost Estimate	BW23 FOIA CBP 022557 \$



**U.S. Customs and Border Protection**

(b) (7)(E)

(b) (7)(E)



Provide RE services, site preparation, O&M and (b) (7)(E) for all (b) (7)(E) systems nationwide.

### Progress / Risk

**Initial Risk Estimate:** TBD

**Current Risk Estimate:** TBD

**Major Issues:**

- System deployment location is very fluid and each site has unique site improvement requirements

**Lessons Learned:**

- Work with business partners early to select the best sites to meet their needs
- Must work closely with team to ensure information is accurate and up to date to avoid rework.

### Schedule

G

Milestone	Baseline	Planned	Actual
Project Start	(b) (5)		
RE Cert	On Going		
Environ	On Going		
RFP	On Going		
Award	On Going		
NTP	On Going		
Completion	03/18		

### Cost

G

PRD Cost Estimate	(b) (5)
RE & ENV Cost (RE Services only)	
USACE Labor Cost (e.g. District Costs)	
Construction Budgeted Award Cost	
Pending Change Request Cost	\$0
Completed Change Request Costs	\$0



U.S. Customs and Border Protection

(b)(6);(b)(7)(C)

- **LRT** (b) (7)(E)
  - Reconstruct berm (LRT)
  - Control erosion and surface runoff
  
- **DRT** (b) (7)(E)
  - Reconstruct berm/backstop
  - Control erosion and surface runoff



# CBP Office of Administration Facilities Management and Engineering

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# East Southeast Corridor



U.S. Customs and  
Border Protection





# East Southeast Corridor

## Project Managers

(b)(6);(b)(7)(C) *	
# of Projects	
Project Value	
Certifications	

(b)(6);(b)(7)(C) - TI	
# of Projects	
Project Value	
Certifications	

\* Briefed Eastern Corridor projects as Western Corridor PMR

(b)(6);(b)(7)(C) - TI	
# of Projects	5
Project Value	\$569,000
Certifications	PM II, COR II

(b)(6);(b)(7)(C) - TI	
# of Projects	1
Project Value	\$220,000
Certifications	PMP, LEED AP, PM II, COR III

**\* Total Projects:**

Facilities                      7\*\*  
TI/Towers

**\* Total Project Value:**

Facilities                      \$67,841,757\*\*  
TI/Towers

\* Project Values from Approved Projects in FITT

\*\* Three projects in data set are ATC projects which were briefed during the Western Corridor PMR. Project Value: \$60,092,980



**U.S. Customs and Border Protection**

# East Southeast Corridor

## Facility Managers

	(b)(6);(b)(7)(C)
# of Personnel	7 Govt, 2 Cont
Certifications	PM I, COR II
Sectors	Buffalo/Houlton/Miami/Ramey/Swanton
# of Buildings Managed	17 owned, 22 leased

	(b)(6);(b)(7)(C) (Ctr)
# of Personnel	3
Certifications	1
Sectors	Swanton/ Buffalo
# of Buildings Managed	18





# East Southeast Corridor

## Property Overview

### Facilities

Square Feet (Building): 671,056

Acreage (Land): 222

Each (Structures): 41

Station Towers: 35

FtF Baseline: 349,028

FtF Current: 366,175

	BPSHQ	BPS	FOB	CKPT	TARS	SOG	Total # of Buildings	Agents	Total Sq. Ft.	% of Total Sq. Ft.
<b>Buffalo</b>	1	6	0	0	0	0	10	291	104,392	16%
<b>Swanton</b>	1	8	0	1	0	0	13	286	247,499	37%
<b>Houlton</b>	1	6	3	0	0	0	12	198	130,846	19%
<b>Miami</b>	1	6	0	0	1	0	17	91	152,150	23%
<b>Ramey</b>	1	1	0	0	1	0	12	59	36,169	5%
<b>Total</b>	<b>5</b>	<b>27</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>64</b>	<b>925</b>	<b>671,056</b>	



U.S. Customs and Border Protection

- Data source is TRIRGA

BW23 FOIA CBP 022603

# East Southeast Corridor

## Property Overview

### Tactical Infrastructure

	Buffalo		Swanton		Houlton		Miami		Ramey	
	Total Owned Operational	Total non-owned Operational	Total Owned Operational	Total non-owned Operational	Total Owned Operational	Total non-owned Operational	Total Owned Operational	Total non-owned Operational	Total Owned Operational	Total non-owned Operational
Primary VF (Miles)	0	0	0	0	0	0	0	0	0	0
Primary PF (Miles)	0	0	0	0	0	0	0	0	0	0
Secondary PF (Miles)	0	0	0	0	0	0	0	0	0	0
Tertiary PF (Miles)	0	0	0	0	0	0	0	0	0	0
Gates (Count)	0	0	0	0	0	0	0	0	0	0
Road (Miles)	0	0	0	0	0	0	0	0	0	0
Bridges (Count)	0	0	0	0	0	0	0	0	0	0
Boat Ramps (Count)	0	0	0	0	0	0	0	0	0	0
Veg. Control (Acres)	0	0	0	0	0	0	0	0	0	0
Veg. Control (Miles)	0	0	0	0	0	0	0	0	0	0
Drainage- Culverts	0	0	0	0	0	0	0	0	0	0
Drainage- LWC	0	0	0	0	0	0	0	0	0	0
Lighting & Electrical (Count)	0	0	0	0	0	0	0	0	0	0

- Data source is FITT TI Metrics

### Towers

	Buffalo	Swanton	Houlton	Miami	Ramey
(b) (7)(E)	<b>(b) (7)(E)</b>				
(b) (7)(E)					
(b) (7)(E)					
	<b>(b) (7)(E)</b>				



U.S. Customs and Border Protection

- Data source is TRIRGA





# East Southeast Corridor Assessments

## Environmental Compliance Assessment Status as of April 30, 2015

- ❖ Env. Compliance Assessments initiated in FY15
- ❖ All facilities have been assessed at least once.
- ❖ Most common deficiencies identified in FY10 through FY13:
  - Improper labeling of waste containers
  - Lack of appropriate training
  - Incomplete record keeping
  - Missing plans/permits
  - EPCRA/Tier II reporting not completed
  - Improper management of universal waste and lack of personnel training

Sector	No. of Facilities to be Assessed in FY15	No. of Open Deficiencies	Est. Cost to Resolve
BUN	4	35	(b) (5)
SWB	5	257	
HLT	4	146	
MIP	1	98	
RMY	0	42	



# Sustainability Overview

## Integrated Project Team (IPT) Update

### **Water IPT**

Water Implementation Plan & Facility Water Use Plan  
BPFTI Review

### **Greenhouse Gas IPT**

Completed GHG audit for FY14. Findings are being consolidated into CBP then DHS  
IPT is transitioning into Energy IPT until 4Q of FY15

### **Energy IPT**

New IPT  
Auditing all existing energy audits completed to date by EMO  
Creating program to link savings back to PMOs  
Drafting Energy programs



# Sustainability Overview

Integrated Project Team (IPT) Update – Con't



## High Performance Sustainable Buildings IPT

Removal of all references of LEED from manuals, policy, and directives

Review of new Major Construction and Renovation for compliance with new EO 13693

## New Executive Order 13693 “Planning for Federal Sustainability in the Next Decade”

Replaces previous EOs 13514 and 13423

All facilities required to be recorded into EPA Energy Star Portfolio Manager

Compliance with Guiding Principles is pushed back to 2020. Plan of action for compliance required by FY17.

Recycling requirement of all waste not just construction debris.

Energy reductions changed from portfolio wide to per square foot reductions



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Border Protection

# East Southeast Corridor

## Maintenance Overview

### Towers

Contract	POP Start	POP End	Value	Total Invoiced
(b) (7)(E) Contract - (b) (7)(E)	10/01/14	09/25/15	\$4,425,496.00	\$918,367.40
FAA IAA - (b) (7)(E)	09/26/15	TBD	\$1,862,196	\$0
GSA IAA - (b) (7)(E)	01/01/13	06/30/15	\$2,840,057	\$124,426
USACE IAA - (b) (7)(E)	08/20/12	09/30/16	\$1,261,604	\$213,753
FAA IAA - (b) (7)(E)				
<b>Total</b>			<b>\$ 10,389,353</b>	<b>\$ 1,256,546</b>

### Tactical Infrastructure

Contract Year (Current)	POP Start	POP End	Value	Total Invoiced
WA 4 - Base Year				
<b>Total</b>				

### Facilities

Contract Type	Total Value
PM Contracts (PM + Minor Repairs)	\$1,737,441
Maintenance Contracts	\$5,000
Ops Contracts	\$1,333,622
Repair Contracts (Above Threshold)	\$1,367,876
<b>Total</b>	<b>\$4,443,939</b>

**Number of Contracts: 24**

**Number of CORs: 19**

DTM, BUN, SWB, HLT, RMY







# East Southeast Corridor Leasing Overview

## Lease Summary

Quantity      Value

### Lease Agreements

Direct Lease

GSA Lease

### Total Square Feet

### Total Acreage

### Leases in Holdover

### Leases in Renewal

### New Lease Actions

### Lease Closures

## Leases Expiring before end of 2017

## Terminations:



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# Real Estate Overview

## TOWERS SUPPORT

1. **BUN - Maritime Detection Project (MDP)** – OTIA demonstration project comprising (b) (7)(E) [redacted]. *Current status:* (b) (7)(E) [redacted] long-term leases fully executed and tower construction complete; negotiation of (b) (7)(E) [redacted] lease on hold pending OTIA completion of tower design.
2. **SWB - (b) (7)(E) Expansion Project** – (b) (7)(E) towers and one rooftop installation located (b) (7)(E) [redacted]. *Current status:* USACE-led RE clearance effort funded by OTIA and underway; seeking (b) (7)(E) [redacted] received to date; working with USACE and OTIA to determine next steps on negative responses.
3. **SWB - (b) (7)(E) Project** – 2<sup>nd</sup> phase of DHS Science & Technology project comprising (b) (7)(E) [redacted]. *Current status:* Funding path for RE clearance determined; RE clearance alternatives and ROM received from USACE; selection of clearance path and associated funding in progress.

## FACILITIES SUPPORT

### 1. ATC, Harpers Valley, WV

- Boundary survey completed, and various encumbrances and encroachments identified. Review of USACE analysis, recommendations and ROM for curative actions in progress.
- Initial RE input provided on potential transfer of adjacent National Park Service lands.



# East Southeast Corridor

## Real Estate Overview

**Current Actions:** Review and evaluation of real estate rights documentation on existing (b) (7)(E) towers; Evaluate agreements against ownership plats for tower sites and access routes; Post and approve in FITT; Cure deficiencies

<u>Sector - Existing Towers</u>	<u>Buffalo</u>	<u>Swanton</u>	<u>Houlton</u>	<u>Miami</u>	<u>Ramey</u>
Number of tower sites reviewed for RE rights (physical tower locations)	<b>(b) (7)(E)</b>				
Number of access parcels reviewed for RE rights	0	0	n/a	n/a	n/a
Number of sites "RED" because either tower site lacks valid documentation or one or more access parcels do	unknown	unknown	n/a	n/a	n/a
Number of sites and access parcels uploaded into FITT	0	0	n/a	n/a	n/a
Estimated time frame to complete review	<b>(b) (5)</b>		n/a	n/a	n/a



(b)(6);(b)(7)(C)



# East Southeast Corridor

## Real Estate Overview

### CTIMR SUPPORT - RGV

#### (b) (7)(E) BPS AOR

- (b) (7)(E) Roads – Obtained licenses from the two landowners, clearing these high priority roads for M&R.

#### (b) (7)(E) BPS AOR

- No change from last PMR

#### (b) (7)(E) BPS AOR

- Preparing letters to send to landowners

#### (b) (7)(E) MILCON – RGV

- Negotiated 12 month term license for water tank placement







# East Southeast Corridor

## Environmental Overview

Funding	BUN	SWB	HLT	MIP	RMY
	# WO / \$	# WO / \$	# WO / \$	# WO / \$	# WO / \$
Facilities - Compliance	NA	NA	NA	NA	NA
Facilities - Planning	NA	NA	NA	NA	NA
TI / Towers	NA	NA	NA	NA	NA
Reveg	NA	NA	NA	NA	NA



## East Southeast Corridor

**Environmental Overview****FY15 Task Orders**

Funding	Contract	TO Value (\$)	TO Value (\$'s) Remaining
Facilities	Compliance – LMI	\$500,000	\$ 500,000
Facilities	Compliance – HDR	\$ 43,000	\$ 325
Facilities	Planning - HDR	\$200,000	\$ 15,166
TI/Towers - BSFIT	Env Support – HDR	\$375,000	\$ 72,841
TI/Towers - BSFIT	Env Support – Northland	\$375,000	\$ 27,840
Reveg - BSFIT	CA Reveg - RECON	\$250,000	\$ 2,591
Reveg - BSFIT	"Other" Reveg - RECON	\$300,000	\$ 4

**Task Order Support – In Process**

Procurements in Process	TO Value (\$)	Activities
<b>Facilities</b>		
FY16 - Facilities - Planning	\$ 350,000	Env Support
FY16 - Facilities - Compliance	\$ 500,000	Env Support
FY16 - Reveg	\$ 650,000	Env Support
FY16 - TI/Towers	\$ 950,000	NR/CR/EP Support
EPT Range	\$ 307,080	Lead Reclamation and Maintenance
LRT & TCA Range	\$ 323,387	Lead Reclamation and Maintenance
BBT Range	\$ 550,432	Lead Reclamation and Maintenance
DRT Range	\$ 325,883	Lead Reclamation and Maintenance
ELC Range	\$ 397,986	Lead Reclamation and Maintenance
<b>TI / Reveg</b>		
YUM (b) (7)(E)	\$ 400,000	Env Support
TI - Interim	\$ 250,000	Env Support
Reveg - Interim	\$ 250,000	Env Support
HDR HSBP1014F00533 - 15% Mod	\$ 75,000	Env Support
<b>IAA's</b>		
CBP DOI IAA - No cost Mod	\$ -	POP Extension
(b) (7)(E) TIMR EA - AZ	\$ 25,628	Fee Reimbursement
(b) (7)(E) TIMR EA - CA	\$ 77,300	Fee Reimbursement



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BW23 FOIA CBP 022614



# East Southeast Corridor

## Projects Review - Terms

<b>Term</b>	<b>Field Name in FIIT</b>	<b>Explanation</b>
PRD Cost Estimate	Initial Estimate - Initial ROM	Initial ROM as captured in approved Projects Requirement Document (PRD)
Revised Cost Estimate	Total Approved Budget	Executing Agency Estimate + Total Executing Agency Approved CRs + FM&E Approved Costs
Project Budget Expensed	Total Expenditures	Total Contract Awards + Total Executing Agency Non-Contract Obligations
Pending Change Request Cost	Total Executing Agency Approved CRs	Approved Change Requests
Completed Change Requests	Funds Transferred: CR	Change Requests expensed



**BUN (b)(7)(E) MCA Deliver Water and Drill Well**  
**NB06MCA-4435**



If successful, this project will increase the water yield needed for this (b)(7)(E)

**Progress / Risk**

**Initial Risk Estimate:** TBD

**Current Risk Estimate:** TBD

**Major Issues:**

- IAA/IGE and SOW has been submitted, waiting on feedback from GSA.

**Lessons Learned:**

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start	TBD	TBD	TBD
RE Cert	TBD	TBD	TBD
Environ	N/A	N/A	N/A
RFP	TBD	TBD	TBD
Award	TBD	TBD	TBD
NTP	TBD	TBD	TBD
Completion	TBD	TBD	TBD

**Cost**



PRD Cost Estimate	(b)(5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	N/A
USACE Labor Cost (e.g. District Costs)	(b)(5)
Construction Award Cost	TBD
Pending Change Request Cost	TBD
Completed Change Request Costs	TBD
First Year BOMR Cost Estimate	TBD



**U.S. Customs and Border Protection**



**(b) (7)(E), NY, Tower Repairs**



(b) (7)(E), (b) (5)  
 . Install lightning protection. (b) (7)(E)

**Progress / Risk**

Initial Risk Estimate: \$(b) (5)

Current Risk Estimate (b) (5)

**Major Issues:**

- Developing PRD (scope, cost and schedule) for award through GSA.

**Lessons Learned:**

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start		(b) (5)	
RE Cert			
Environ			
RFP			
Award			
NTP			
Completion			

**Cost**

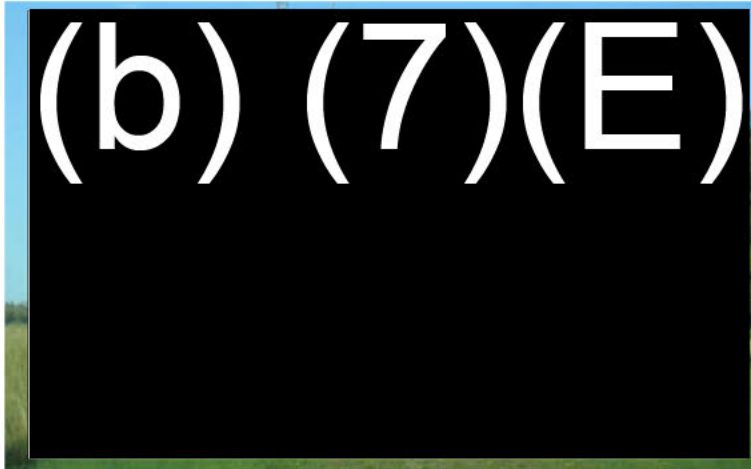


PRD Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	\$
USACE Labor Cost (e.g. District Costs)	\$
Construction Award Cost	\$
Pending Change Request Cost	\$
Completed Change Request Costs	\$



U.S. Customs and Border Protection

**(b) (7)(E) NY, Tower Repairs**



**Progress / Risk**

Initial Risk Estimate: \$ (b) (5)

Current Risk Estimate: (b) (5)

**Major Issues:**

- Developing PRD (scope, cost and schedule) for award through GSA.

**Lessons Learned:**

(b) (7)(E) due to rust. Recommend (b) (7)(E), (b) (5)

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start		(b) (5)	
RE Cert		(b) (5)	
Environ		(b) (5)	
RFP		(b) (5)	
Award		(b) (5)	
NTP		(b) (5)	
Completion		(b) (5)	

**Cost**



PRD Cost Estimate	\$(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	\$
USACE Labor Cost (e.g. District Costs)	\$
Construction Award Cost	\$
Pending Change Request Cost	\$
Completed Change Request Costs	\$



U.S. Customs and Border Protection

**(b) (7)(E) NY, Tower Repairs**



(b) (7)(E), (b) (5)

**Progress / Risk**

Initial Risk Estimate: \$(b) (5)

Current Risk Estimate: (b) (5)

**Major Issues:**

- Developing PRD (scope, cost and schedule) for award through GSA.

**Lessons Learned:**

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start		(b) (5)	
RE Cert		(b) (5)	
Environ		(b) (5)	
RFP		(b) (5)	
Award		(b) (5)	
NTP		(b) (5)	
Completion		(b) (5)	

**Cost**



PRD Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	\$
USACE Labor Cost (e.g. District Costs)	\$
Construction Award Cost	\$
Pending Change Request Cost	\$
Completed Change Request Costs	\$



U.S. Customs and Border Protection



# SWB SWB MCA Indoor Firing Range Abatement NT04MCA-4467

**(b) (7)(E), (b) (5)**

Range will be turned over to GSA as a dry well lit space.

## Progress / Risk

Initial Risk Estimate: **(b) (5)**

Current Risk Estim

### Major Issues:

- Environmental testing will continue throughout this project.

### Lessons Learned:

## Schedule G

Milestone	Baseline	Planned	Actual
Project Start	04/09/15	<b>(b) (5)</b>	
RE Cert	N/A	N/A	N/A
Environ	<b>(b) (5)</b>		
RFP	N/A	N/A	<b>(b) (5)</b>
Award	N/A	N/A	
NTP	N/A	N/A	
Completion	N/A	N/A	

## Cost G

PRD Cost Estimate	<b>(b) (5)</b>
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	TBD
USACE Labor Cost (e.g. District Costs)	TBD
Construction Award Cost	TBD
Pending Change Request Cost	TBD
Completed Change Request Costs	TBD
First Year BOMR Cost Estimate	TBD



U.S. Customs and Border Protection



# HLT HLT MCA IFR Renovation

## NJ04MCA-4468

**(b) (7)(E)**

Firing range conversion into conference room, training office, exercise room and storage space.

### Progress / Risk

Initial Risk Estimate: (b) (5)

Current Risk Estimate: [Redacted]

Major Issues: None

Lessons Learned: TBD

### Schedule



Milestone	Baseline	Planned	Actual
Project Start	03/29/12	03/29/12	03/29/12
RE Cert	(b) (5)		
Environ	(b) (5)		
RFP	03/18/15	03/18/15	03/18/15
Award	04/02/15	04/16/15	04/13/15
NTP	04/07/15	04/30/15	04/22/15
Completion	(b) (5)		

### Cost

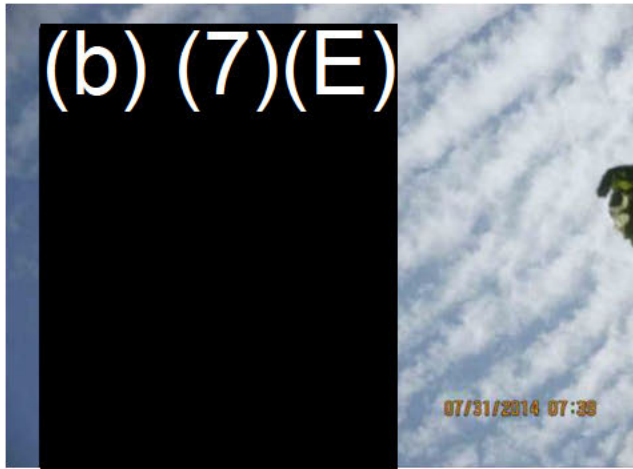


PRD Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	\$0
USACE Labor Cost (e.g. District Costs)	N/A
Construction Award Cost	(b) (5)
Pending Change Request Cost	[Redacted]
Completed Change Request Costs	\$0
First Year BOMR Cost Estimate	\$0



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(b) (7)(E) FL, (b) (7)(E)



(b) (7)(E), (b) (5)

### Progress / Risk

Initial Risk Estimate: (b) (5)

Current Risk Estimate (b) (5)

**Major Issues:**

- Developing PRD (scope, cost and schedule) for award through GSA.

**Lessons Learned:**

### Schedule

G

Milestone	Baseline	Planned	Actual
Project Start		(b) (5)	
RE Cert		(b) (5)	
Environ		(b) (5)	
RFP		(b) (5)	
Award		(b) (5)	
NTP		(b) (5)	
Completion		(b) (5)	

### Cost

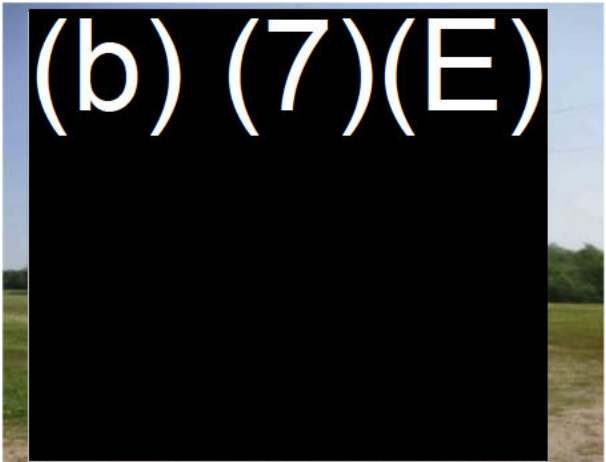
G

PRD Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	\$
USACE Labor Cost (e.g. District Costs)	\$
Construction Award Cost	\$
Pending Change Request Cost	\$
Completed Change Request Costs	\$



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**(b) (7)(E) MN, Tower Repairs**



(b) (5), (b) (7)(E)

**Progress / Risk**

Initial Risk Estimate: \$ (b) (5)

Current Risk Estimate: (b) (5)

**Major Issues:**

- Developing PRD (scope, cost and schedule) for award through GSA.

**Lessons Learned:**

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start		(b) (5)	
RE Cert		(b) (5)	
Environ		(b) (5)	
RFP		(b) (5)	
Award		(b) (5)	
NTP		(b) (5)	
Completion		(b) (5)	

**Cost**

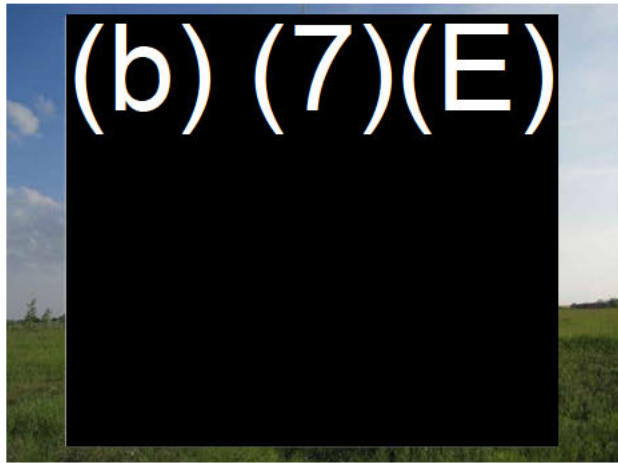


PRD Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	\$
USACE Labor Cost (e.g. District Costs)	\$
Construction Award Cost	\$
Pending Change Request Cost	\$
Completed Change Request Costs	\$



U.S. Customs and Border Protection

**Towers**  
**(b) (7)(E) ND, Tower Repairs**



(b) (5), (b) (7)(E)

**Progress / Risk**

Initial Risk Estimate: (b) (5)

Current Risk Estimate

**Major Issues:**

- Developing PRD (scope, cost and schedule) for award through GSA.

**Lessons Learned:**

**Schedule**

G

Milestone	Baseline	Planned	Actual
Project Start		(b) (5)	
RE Cert			
Environ			
RFP			
Award			
NTP			
Completion			

**Cost**

G

PRD Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	\$
USACE Labor Cost (e.g. District Costs)	\$
Construction Award Cost	\$
Pending Change Request Cost	\$
Completed Change Request Costs	\$

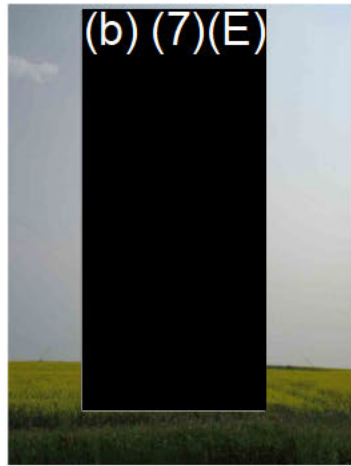


U.S. Customs and Border Protection





(b) (7)(E), ND, Tower Repairs



(b) (7)(E)

(b) (5), (b) (7)(E)

Progress / Risk

Initial Risk Estimate: \$(b) (5)

Current Risk Estimate: (b) (5)

Major Issues:

- Developing PRD (scope, cost and schedule) for award through GSA.

Lessons Learned:

Schedule

G

Milestone	Baseline	Planned	Actual
Project Start		(b) (5)	
RE Cert		(b) (5)	
Environ		(b) (5)	
RFP		(b) (5)	
Award		(b) (5)	
NTP		(b) (5)	
Completion		(b) (5)	

Cost

G

PRD Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	\$
USACE Labor Cost (e.g. District Costs)	\$
Construction Award Cost	\$
Pending Change Request Cost	\$
Completed Change Request Costs	\$



U.S. Customs and Border Protection

**(b) (7)(E) MN, Tower Repairs**



(b) (7)(E), (b) (5)

**Progress / Risk**

Initial Risk Estimate: \$(b) (5)

Current Risk Estimate: (b) (5)

**Major Issues:**

- Developing PRD (scope, cost and schedule) for award through USACE.

**Lessons Learned:**

**Schedule**



Milestone	Baseline	Planned	Actual
Project Start		(b) (5)	
RE Cert			
Environ			
RFP			
Award			
NTP			
Completion			

**Cost**



PRD Cost Estimate	(b) (5)
RE & ENV Cost (Actual if RE/ENV Complete, Estimated if not)	\$
USACE Labor Cost (e.g. District Costs)	\$
Construction Award Cost	\$
Pending Change Request Cost	\$
Completed Change Request Costs	\$



U.S. Customs and Border Protection

# Back Up Slides



Western Corridor (BLW, SPW, HVM, SDC,ELC, GFN, YUM, TCA, EPT, BBT)

<b>Funding</b>	<b>Contract</b>	<b>TO Value (\$)</b>	<b>No. of WOs Issued</b>	<b>Value of all WOs Issued</b>
Facilities	Compliance – LMI	\$ 500,000	0	\$ -
Facilities	Compliance – HDR	\$ 43,000	0	\$ 42,675
Facilities	Planning - HDR	\$ 200,000	3	\$ 107,240
TI/Towers - BSFIT	Env Support – HDR	\$ 375,000	5	\$ 302,156
TI/Towers - BSFIT	Env Support – Northland	\$ 375,000	5	\$ 164,239
Reveg - BSFIT	CA Reveg - RECON	\$ 250,000	5	\$ 247,406
Reveg - BSFIT	"Other" Reveg - RECON	\$ 300,000	7	\$ 269,954



<b>TO Value (\$'s) Remaining</b>
\$ 500,000
\$ 325
\$ 15,166
\$ 72,841
\$ 27,840
\$ 2,591
\$ 30,032

Overview

<b>Funding</b>	<b>Contract</b>	<b>TO Value (\$)</b>	<b>TO Value (\$'s) Remaining</b>
Facilities	Compliance – LMI	\$ 500,000	\$ 500,000
Facilities	Compliance – HDR	\$ 43,000	\$ 325
Facilities	Planning - HDR	\$ 200,000	\$ 15,166
TI/Towers - BSFIT	Env Support – HDR	\$ 375,000	\$ 72,841
TI/Towers - BSFIT	Env Support – Northland	\$ 375,000	\$ 27,840
Reveg - BSFIT	CA Reveg - RECON	\$ 250,000	\$ 2,591
Reveg - BSFIT	"Other" Reveg - RECON	\$ 300,000	\$ 30,032

Procurements in Process	TO Value (\$)	Activities
<b>Facilities</b>		
FY16 - Facilities - Planning	\$ 350,000	Env Support
FY16 - Facilities - Compliance	\$ 500,000	Env Support
FY16 - Reveg	\$ 650,000	Env Support
FY16 - TI/Towers	\$ 950,000	NR/CR/EP Support
EPT Range	\$ 307,080	Lead Reclamation and Maintenance
LRT & TCA Range	\$ 323,387	Lead Reclamation and Maintenance
BBT Range	\$ 550,432	Lead Reclamation and Maintenance
DRT Range	\$ 325,883	Lead Reclamation and Maintenance
ELC Range	\$ 397,986	Lead Reclamation and Maintenance
<b>TI / Reveg</b>		
YUM <sup>(b) (7)(E)</sup>	\$ 400,000	Env Support
TI - Interim	\$ 250,000	Env Support
Reveg - Interim	\$ 250,000	Env Support
HDR HSBP1014F00533 - 15% Mod	\$ 75,000	Env Support
<b>IAA's</b>		
CBP DOI IAA - No cost Mod	\$ -	POP Extension
<sup>(b) (7)(E)</sup> IMR EA - AZ	\$ 25,628	Fee Reimbursement
<sup>(b) (7)(E)</sup> IMR EA - CA	\$ 77,300	Fee Reimbursement

**Pacific West Corridor (BLW, SPW, HVM, SDC, ELC)**

Funding	BLW	SPW	HVM	SDC
	# WO / \$	# WO / \$	# WO / \$	# WO / \$
Facilities - Compliance	NA	NA	NA	NA
Facilities - Planning	NA	1 / \$78,848	NA	1 / 21,166
TI / Towers	NA	NA	NA	3 / \$154,820
Reveg	NA	NA	NA	5 / \$228,014

**West Central Corridor (GFN, YUM, TCA, EPT, BBT)**

Funding	GFN	YUM	TCA	EPT
	# WO / \$	# WO / \$	# WO / \$	# WO / \$
Facilities - Compliance	NA	NA	NA	NA
Facilities - Planning	NA	NA	1 / \$7,225	NA
TI / Towers	NA	NA	6 / \$308,889	1 / \$2,686
Reveg	NA	2 / \$60,667	2 / \$13,502	NA



<b>ELC</b>
<b># WO / \$</b>
NA
NA
NA
4 / \$215,175

<b>BBT</b>
<b># WO / \$</b>
NA
NA
NA
NA

**East Central Corridor (BUN, SWB, HLT, MIP, RMY)**

Funding	BUN	SWB	HLT	MIP
	# WO / \$	# WO / \$	# WO / \$	# WO / \$
Facilities - Compliance	NA	NA	NA	NA
Facilities - Planning	NA	NA	NA	NA
TI / Towers	NA	NA	NA	NA
Reveg	NA	NA	NA	NA

**East Southeast Corridor (DTM, DRT, LRT, RGV, NLL)**

Funding	DTM	DRT	LRT	RGV
	# WO / \$	# WO / \$	# WO / \$	# WO / \$
Facilities - Compliance	1 / \$32,141	NA	NA	NA
Facilities - Planning	NA	1 / \$77,578	NA	NA
TI / Towers	NA	1 / \$14,012	1 / \$28,868*	5 / \$140,138**
Reveg	NA	NA	NA	NA

TI / Towers	Facilities Compliance	Facilities Planning
RGV (b) (7)(E) CTIMR USFWS 4 Existing Rds Phase I Arch and R Survey	\$ 14,902	DTM Stormwater Investigation
RGV FY15 (b) (7)(E) Road Env Monitoring	\$ 97,002	DRT (b) (7)(E) Checkpoint Renovation Phase I ESA, CR, Bio Survey
RGV (b) (7)(E) Road Arch Site Visit	2,399	
RGV (b) (7)(E) Roads CR Survey	\$ 16,078	
RGV (b) (7)(E) (b) (7)(E) Roads CR MBTA Survey	\$ 9,757	
LRT Priority Roads CR and WOUS Surveys	\$ 28,768	
DRT (b) (7)(E) Road MBTA Survey	\$ 14,012	
RGV (b) (7)(E) EA*	854,22	
LRT (b) (7)(E) Road*	\$ 195,890	

\* Stand Alone Task Order

<b>RMY</b>
<b># WO / \$</b>
NA
NA
NA
NA

<b>NLL</b>
<b># WO / \$</b>
NA
NA
NA
NA

<b>Facilities Planning</b>
\$ 77,578

(b) (7)(E), (b) (5)

D

C

B

A

A100



(b) (7)(E), (b) (5)

D

C

B

A

A100

(b) (7)(E), (b) (5)

D

C

B

A

A100

(b) (7)(E), (b) (5)

D

C

B

A

A100

(b) (7)(E), (b) (5)

D

C

B

A

A100



(b) (7)(E), (b) (5)

D

C

B

A

A100

(b) (7)(E), (b) (5)

D

C

B

A

A100

(b) (7)(E), (b) (5)

D

C

B

A

A100

## East & East Central Corridor FY 15 Q3 Portfolio Review Agenda Tuesday, May 12 – Thursday, May 14, 2015

Tuesday, May 12<sup>th</sup>, 2015 - 819 Taylor St, Fort Worth, TX, 4th Floor, Texas Room

Time	Topic	Presenters
09:00 – 09:30	Welcome and Opening Remarks & Agenda Review	(b)(6);(b)(7)(C) (b)(6);(b)(7)(C) Division Directors
09:30 – 11:00	High Level Orientation Ground Rules Agenda Review Corridors Organization & Responsibilities	(b)(6);(b)(7)(C) (b)(6);(b)(7)(C) (b)(6);(b)(7)(C) (b)(6);(b)(7)(C) (b)(6);(b)(7)(C)
11:00 – 11:15	Break	All
11:15 – 12:30	East Central Corridor Overview Personnel Property Overview Assessments Maintenance Overview Leasing Overview Real Estate Overview Environmental Overview	(b)(6);(b)(7)(C) (b)(6);(b)(7)(C) (b)(6);(b)(7)(C) (b)(6);(b)(7)(C) (b)(6);(b)(7)(C) (b)(6);(b)(7)(C) (b)(6);(b)(7)(C) (b)(6);(b)(7)(C) (b)(6);(b)(7)(C)
12:30 – 13:30	LUNCH	All
13:30 – 15:30	East Central Corridor Project Review	See Slide Deck
15:30 – 15:45	Break	All
15:30 – 16:45	Financial Management Review	(b)(6);(b)(7)(C)
16:45 – 17:00	Action Item Review and Closing	(b)(6);(b)(7)(C)



# East & East Central Corridor FY 15 Q3 Portfolio Review Agenda

## Tuesday, May 12 – Thursday, May 14, 2015

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		(b)(6);(b)(7)(C) Division Directors
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# CBP Office of Administration Facilities Management and Engineering

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## Interagency Agreement (IAA) Status Update

April/May 2015



U.S. Customs and  
Border Protection



# Summary

Since October 1, 2014:

52 IAAs Managed

6 Modifications

11 New IAAs

11 Closed

## Successes:

Templates Complete and Approved

Interagency Funds Transfer (IFT) Process Approved and Clarified by DHS



# Actions Complete This Fiscal Year (FY)

As of April 22, 2015

Program	IAA	COR	Brief Description	Cost
FAC	USACE (b) (7)(E) Septic System Pumping	(b)(6);(b)(7)(C)	Execute Option Year and Add Funding.	\$1,046,000
FAC	FY15 Air Force Detroit SHQ Janitorial	(b)(6);(b)(7)(C)	New IAA.	\$74,000
FAC	USACE MCA & Repair Eules Projects 2	(b)(6);(b)(7)(C)	Mod to Add funding for BBT Modulars Deobligate funding to reflect DCOs.	\$452,574
FAC	Air Force Detroit Sector HQ Maintenance and Repair Services	(b)(6);(b)(7)(C)	Execute Option Year; add funding for OY	\$5,000
FAC	NAVFAC FY15 Lead Abatement/HVAC/Maint SDC (b) (7)(E) Range	(b)(6);(b)(7)(C)	New IAA.	\$439,744
FAC	USACE Major Construction	(b)(6);(b)(7)(C)	(b) (7)(E) Deob; Add funding for (b) (7)(E) (b) (7)(E) execute Option Year 2.	(\$6,047,168)
FAC	USACE Indianapolis Projects (RWA-IAA Conversion)	(b)(6);(b)(7)(C)	Extend PoP 1 Year; de-obligate funding.	(\$476,018)
RE/ENV	DOI ENV Remediation Services	(b)(6);(b)(7)(C)	Exercise Option Year Two awarded, no cost.	\$0
RE/ENV	USDA (b) (7)(E) Road Maintenance	(b)(6);(b)(7)(C)	Option Year 4 executed.	\$493,350
RE/ENV	DOI ENV Mitigation (b) (7)(E) Towers 1	(b)(6);(b)(7)(C)	No cost, 2 year extension of PoP.	\$0
RE/ENV	GSA Purchase of Big Bend Modulars	(b)(6);(b)(7)(C)	Deobligate funding for this project (moved to Eules 2 IAA); & close out.	(\$610,435.72)
TI	DOI Mitigation (b) (7)(E) Tower 1	(b)(6);(b)(7)(C)	No cost, 2 year extension of PoP	\$0



# Actions Pending Through End of FY

As of April 22, 2015



Program	IAA	COR	Brief Description	Cost	Action Due Date
ALL	<b>(b) (5), (b)(6);(b)(7)(C)</b>				
FAC					
FAC					
FAC					
FAC					
FAC					
FAC					
FAC					
FAC					

# Actions Pending Through End of FY

As of April 22, 2015



Program	IAA	COR	Brief Description	Cost	Action Due Date
RE/ENV	(b) (5), (b)(6);(b)(7)(C), (b) (7)(E)				
RE/ENV					
RE/ENV					
TI					
TI					
TI					
TI					
TI					
TI					



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# Actions Pending Through End of FY

As of April 22, 2015

Program	IAA	COR	Brief Description	Cost	Action Due Date
TI	(b) (5), (b) (7)(E), (b)(6);(b)(7)(C)				
TI					
TI					
TI					
TI					
TI					
TI					
TI					
TI					
TI					
TI					
TI					

# Tell us about yourself!

## Overview

- Primarily responsible for managing facility operations and determining allocation and utilization of resources
- Manages sustainment, maintenance, repair, and minor alterations of all assigned facilities in their respective sector(s) portfolio
- Responsible for all facilities associated building equipment (i.e., systems, equipment, structure, interiors, exteriors and grounds).
- Towers and TARS sites
- COR responsibilities
- PM responsibilities

## Major Responsibilities

- Ensures all facilities are maintained at the highest standard possible and that required systems function efficiently, reliably, safely, and securely in a manner consistent with existing regulations and standards
- Key point of contact and liaison between Border Patrol (including Sector leadership), USACE, GSA, and maintenance contractors
- Manage budgets for PCDs and ensures funds are being spent efficiently

Facility Manager

## Touch Points

- Division Directors
- Project Managers
- Program Managers
- Engineers
- Architects
- USACE
- GSA
- OBP leadership

## Surprise Us!





# Tell us about yourself!

## Overview

- Portfolio management for facility operations
  - Sustainment
  - Maintenance & Repair
  - Minor Alterations
  - Systems
  - Equipment
  - Structure (interior & exterior)
  - Grounds
- Directs allocation & utilization of resources
- Operational & Maintenance Contracts (COR)

## Major Responsibilities

- Sector Liaison
- Maintenance & Operations
- Building Management
- Facility financial forecasting & management
- Long range facility planning
- Minor alterations
- New construction / capital improvement
- Project Management

Facility Manager

## Touch Points

- |                      |                    |
|----------------------|--------------------|
| • Division Directors | • Branch Chief     |
| • Project Managers   | • Business Partner |
| • Program Managers   | • Employees        |
| • Engineers          | • Program Analyst  |
| • Architects         | • Contractors      |
| • USACE              | • State Agencies   |
| • GSA                |                    |
| • OBP leadership     |                    |

## Surprise Us!



U.S. Customs and Border Protection





# Tell us about yourself!

## Overview

- In coordination with the BPFTI PMO Director, develop and communicate the vision and mission of the PMO
- Ensure the BPFTI PMO continues to meet its mission
- Serve as the primary advisor to the BPFTI PMO Director
- Serve as a liaison to external stakeholders and business partners, and communicates with officials in other Federal agencies

## Major Responsibilities

- Oversee BPFTI PMO projects throughout their lifecycles, from planning to construction to maintenance to disposal
- Ensure requirements and solutions are identified, and that support is in place for project execution
- Review construction plans in conjunction with Project Managers and engineers

Deputy Director,  
BPFTI PMO

## Touch Points

- BPFTI PMO Director
- Division Directors
- Project Managers
- Program Managers
- Facility Managers
- Engineers
- Architects

## Surprise Us!

- Smarter and unbreakable when I was younger...
- I finished High School in 2 years by skipping summer breaks and taking additional classes. I started college at the age of 16 with my brand new car and a full beard too!
  - At 23 years old, I had 8 car accidents, two of which my car was a total wreck. It was amazing how I walked away unharmed and survived all those accidents that year.



# Tell us about yourself!

## Overview

- Support the Bus Ops Division Director and PMO leadership building reports and briefings
- Strategic, Program and Resource Planning
- Serve as a “catch-all”

## Major Responsibilities

- Programmatic briefings to include the FM&E Program Management Review (PMR), high-level OBP briefings
- Budget Formulation tasks – Resource Allocation Plan, Congressional Justifications (CJ)
- Strategic Plan to include the FM&E Business Plan

## Special Projects Analyst

## Touch points

- Branch Chiefs, PMs, Analysts for data and project information
- Investment Analyst on the RAP and CFIP documentation
- Financial Management Analysts on Spend Plans and budget reporting
- Work with almost everyone in Bus Ops and the PMO at one point or another

## Surprise Us!

- Proud WI Cheesehead – Packers fan
- Love playing soccer
- Real estate agent on the side





# Tell us about yourself!

## Overview

- Conducts environmental planning and compliance activities for BPFTI PMO
- Manages a portfolio of environmentally related projects to ensure project work is compliant with environmental laws, regulations, agency directives, and processes and procedures
- Prepares required environmental documentation for smaller BPFTI PMO projects such as minor construction, renovations, alterations, and maintenance and repair actions

## Major Responsibilities

- Coordinates with PMs, CORs, Border Patrol and the Tunnel Remediation Team to review environmental requirements, develop solutions, and ensure projects and facility operations comply with environmental laws, regulations, and department directives
- Serves as a subject matter expert for various internal and external sources, responding to questions and requests for information as needed

## Environmental Protection Specialist

## Touch Points

- RE/ENV, Division Director
- Project Managers
- Program Managers
- Facility Managers
- Engineers
- Architects
- External Stakeholders
- The Public

## Surprise Us!

- The two BPFTI Federal Environmental Protection Specialists (i.e. (b)(6);(b)(7)(C) and (b)(6);(b)(7)(C)) are level III CORs that oversee multiple task orders and IAAs
- (b)(6);(b)(7)(C) where part of the CBP team that received the 2012 “Partners in Conservation Award” from the Department of the Interior
- (b)(6);(b)(7)(C) have played on an adult softball team—(b)(6);(b)(7)(C)—together for the past four years. (b)(6);(b)(7)(C) batting average for the Spring 2015 Season was (.588) and (b)(6);(b)(7)(C) was (.556)



# Tell us about yourself!

## Overview

The Project Analyst (PA) is responsible for all aspects of Project Analysis. Each PA is responsible for Facilities, Towers, and TI Projects for their respective corridors. The PA reports to the Branch Chief of the Program and Project Analysis (PPA) Branch within the Business Operations Division.

## Major Responsibilities

- Project Reporting (e.g. Internal TECO/Disposal Report)
- Real Property Reporting (e.g. POC report, Monthly Capital Report)
- Review of Project Documents (e.g., PRDs, Cost Estimates, IAAs, TECOs etc.)
- QA/QC of new or existing project data in various systems
- Ad Hoc reporting and special projects
- Assisting in the project closeout process

## Project Analyst

## Touch points

- Project Managers/Facility Managers
  - QA/QC of New Projects, CRs & TECOs, PRDs. Cost estimates, PRRs, POC Forms & assist in project closeout process
  - Facility and project data verification for project reporting
- Program Analyst
  - Project Data for program level briefings
- Systems Team
  - Project Set-up/closeout, Data clean-up taskings, Trouble shooting
- Tasking Coordinator
  - RPA Taskings (e.g., Monthly Capital, POC)
  - Ad Hoc Taskings
- Communications Team:
  - Supply project data/accomp. for briefings
- Financial Management Branch
  - PRRs, Follow-up on Funding Approval Status(CRs, PRDs)

## Surprise Us!

- I once took a trip to Alaska where I:
- Nearly ran over a moose
  - Had an airplane buzz the car
  - Was bitten on the butt by a ground squirrel



# CBP Office of Administration Facilities Management and Engineering

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## Systems Initiative Review

April/May 2015



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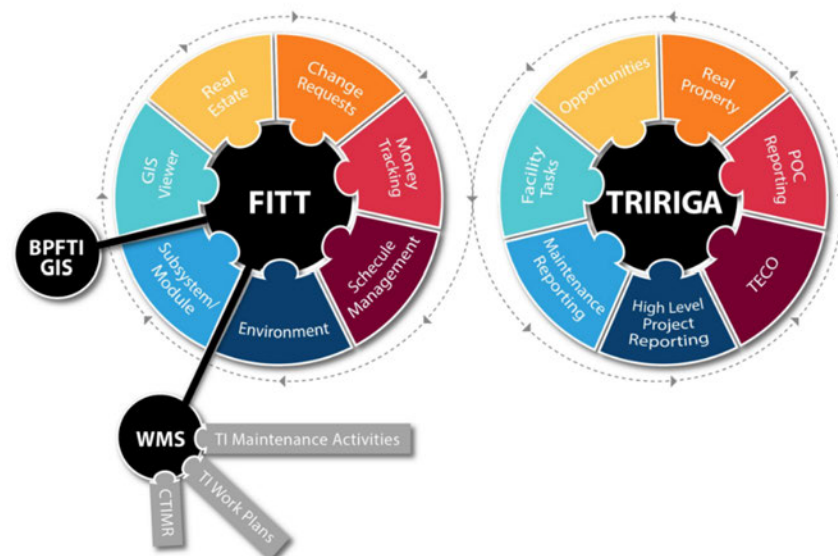


# Agenda

- (1) Systems Overview
- (2) Systems Team
- (3) FITT Initiatives
- (4) WMS Initiatives
- (5) TRIRIGA Initiatives
- (6) Other



# Systems Overview



## Facilities and Infrastructure Tracking Tool (FITT)

BPFTI PMO's primary project management tracking system

- Contains all project high level information, change management, detailed budget tracking, and schedule management

Holds all PMO geographic information system (GIS) data including existing assets, real estate clearances, environmental clearances, and proposed project sites

Holds the Work Management System (WMS) that tracks all tactical infrastructure maintenance and repair work for the Comprehensive Tactical Infrastructure Maintenance and Repair (CTIMR) contracts

## TRIRIGA

CBP's real property system of record

Holds all real property asset records which include the property address or GPS location, "BE"/"BU", asset type, and additional details about that asset

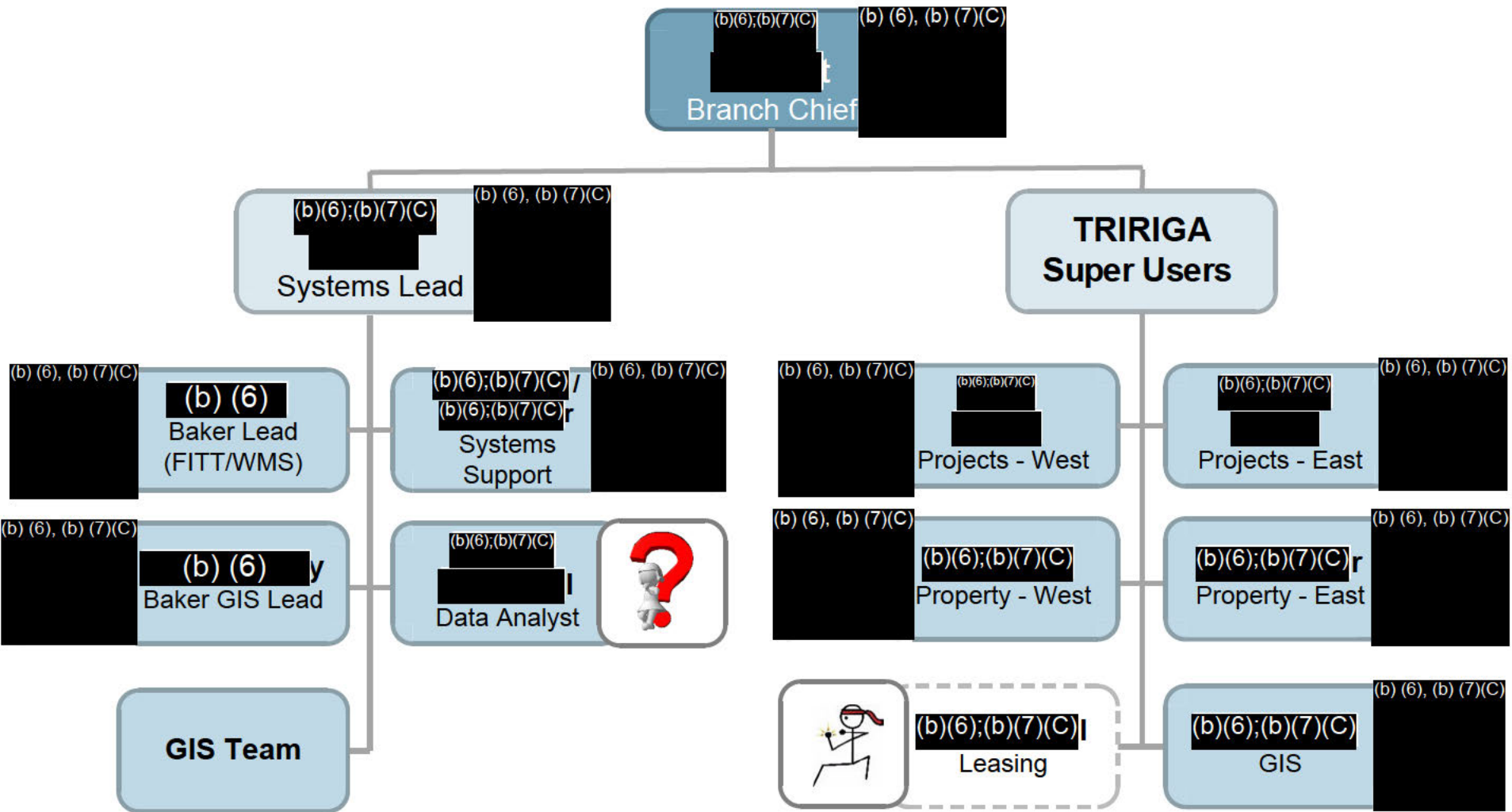
Holds all facility "opportunities" (all deferred maintenance, repair, and project information)

- Note: this is what should be used to prioritize projects and funding requirements annually

Holds high level project shells that sync with the SAP system  
 Will be used for managing facility & tower maintenance and repair work



# BPFTI PMO Systems Team



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(b) (7)(E)





BPFTIPM: (b)(6);(b)(7)(C)

FITT PM: (b)(6);(b)(7)(C)



(b) (5)

(b) (5)



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# GIS Module

## GIS Upgrade

FITT-3800 through 3971

(b) (7)(E)

**Upgrades to include:** Upgrade software and improve performance, change to dynamic layer display, search and filter functions, add info windows, integrate the legend on printed maps, and improve functionality of the location report tool to make it more interactive and informative.

### Progress / Risk

**Risks:**

- (b) (5)

**Major Issues:** N/A

**Lessons Learned:**

- Strong requirements definition required in scope of work
- Provide training and documentation to users with release

### Schedule



Milestone	Baseline	Planned	Actual
Contract Award	(b)	(5)	
Requirement Review			
Development Complete			
Training Start			
Project Complete			

### Cost



Cost Estimate unable to be shown - procurement sensitive

# Other FITT Enhancements

(b) (7) (E)



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(b) (7) (E)







# Create a Notification System to Reduce Emails \*

(b) (7)(E)

*Upgrades to Include: changing the notification email frequencies, creating a Subscribe feature to control notifications*

## Progress / Risk

**Risks:**

- (b) (5)

**Major Issues:** N/A

**Lessons Learned:**

- Strong requirements definition required in scope of work
- Provide training and documentation to users with release

## Schedule

G

Milestone	Baseline	Planned	Actual
Contract Award	(b)	(5)	
Requirement Review			
Development Complete			
Training Start			
Project Complete			

## Cost

G

Cost Estimate unable to be shown - procurement sensitive



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\*Requires final vote from Change Control Board



# Tracking Maintenance Mechanic Work \*

(b) (7) (E)

*Upgrades to include: create access for mechanic work users, add a contract-type value, update system values to represent work types, and separate visibility of mechanic work from maintenance contracts throughout the system and reports.*

## Progress / Risk

**Risks:**

- (b) (5)

**Major Issues:** N/A

**Lessons Learned:**

- Strong requirements definition required in scope of work
- Provide training and documentation to users with release

## Schedule



Milestone	Baseline	Planned	Actual
Contract Award	(b)	(5)	
Requirement Review			
Development Complete			
Training Start			
Project Complete			

## Cost



Cost Estimate unable to be shown - procurement sensitive



U.S. Customs and Border Protection

# Other WMS Enhancements

(b) (7) (E)



# TRIRIGA

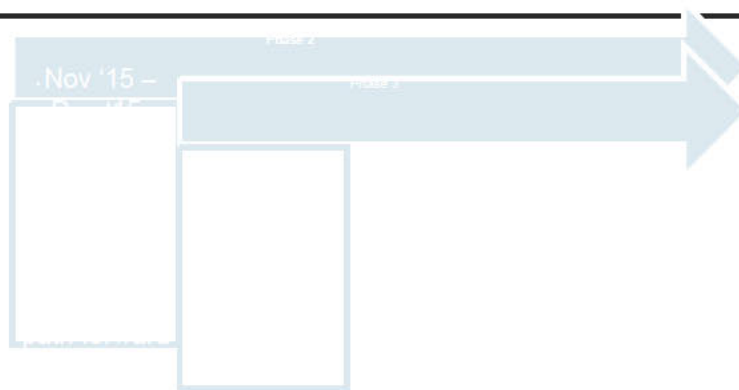


(b) (7) (E)



# All Modules

## FITT Transition to TRIRIGA



### Progress / Risk

(b) (5)

**Major Issues:**

- (b) (7)(E)

*This initiative will involve a full gap analysis and prioritization of what functions can and will be transitioned from FITT to TRIRIGA. Options will be developed and provided to the TSC and XD.*

### Schedule



Milestones (Phase 1)	Baseline	Planned	Actual
Complete Charter	(b) (5)	(5)	
PMO & EMO Brief			
Brief XD			
Begin Formal Gap Analysis			
Complete Gap Analysis			
Complete Findings Report			

### Cost



**Licensing Costs:**

- Approximately (b) (5) per license (OBP, OTIA, FAA, USACE)

**Server Space**

- Current space is at (b) (7)(E) capacity
- Additional space required for FITT 402.5 MB

**Labor**

- Developers: (b) (5) annually each
- Functional Design: (b) (5) annually each (assume (b) (5))

*Note: Cost Estimate is TBD and dependent on path forward determined at meeting with XD Calvo*

BW23 FOIA CBP 022671



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# Portfolio

## Portfolio Field Improvements

**(b) (7)(E)**

To meet the demands of appropriate space management analysis and to meet external reporting requirements (including EPA Portfolio Reporting), we need the ability to record quantities related to portfolio records and features of a building . [e.g. number of lanes for firing range, holding area (number of cells), number of inspection lanes, number of lockers, number of workstations (assignable), horse stalls, kennels, boat slips, car wash bays, etc]

### Schedule

N

Milestones	Baseline	Planned	Actual
TRIRIGA Analysis Start	<b>(b)</b>	<b>(5)</b>	
TRIRIGA Analysis Comp			
TSC Approves Path Forward			
Requirements Complete			
Design Complete	TBD	TBD	
Testing Complete	TBD	TBD	
Live in System	TBD	TBD	

Note: Schedule may change based on outcome of FITT to TRIRIGA path forward



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### Progress / Risk

#### Risks:

- Agreement on fields across all PMOs

#### Major Issues:

- **(b) (7)(E)**

Lessons Learned: N/A

### Cost

N

Pending analysis by the TRIRIGA team

# Portfolio & GIS

## Space Management Initiative



Develop the use of the space management portion of the system and include AutoCAD functions. Space management includes all floor plans for each facility including capacity.

### Progress / Risk

**Risks:**

- (b) (5)
- 
- 

**Major Issues:** N/A

**Lessons Learned:** N/A

### Schedule

**R**

Milestones	Baseline	Planned	Actual
TRIRIGA Analysis Start	April 30, 2014	June 24, 2014	Nov 3, 2014
TRIRIGA Analysis Comp	Oct 31, 2014	April 30, 2015	Apr 3, 2015
TSC Approves Path Forward	TBD	TBD	
Requirements Complete	TBD	TBD	
Design Complete	TBD	TBD	
Testing Complete	TBD	TBD	
Live in System	TBD	TBD	

Note: Schedule may change based on outcome of FITT to TRIRIGA path forward

### Cost

**N**

Cost Estimate is dependent on two factors:  
 (1) GIS Polygon creation plan for all PMOs  
 (2) Floor plan assessment for all PMOs

*Pending analysis by the TRIRIGA team*



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# Operations and Maintenance Maintenance, Repair, and Operations Pilot

(b) (7)(E)

(b) (5)

## Schedule

Y

Milestone	Baseline	Planned	Actual
Req't Devel.	Jul 14, 2014	Dec 23, 2014	Dec 23, 2014
Testing	Sep 19, 2014	Mar 16, 2015	Mar 16, 2015
HLT training	Nov 2-7 '14	Apr 21-24 '15	Apr 21-24 '15
ELC training	Dec 7-12, '14	May 12-15, '15	
TCA training	Jan 25-30, '15	(b) (5)	
1 Month Review	Mar 17, 2015	(b) (5)	
3 Month Review	(b) (5)	(b) (5)	
6 Month Review	(b) (5)	(b) (5)	

Note: Schedule may change based on outcome of FITT to TRIRIGA path forward

## Progress / Risk

### Risks:

- (b) (5)
- (b) (5)
- (b) (5)

Major Issues: N/A

Lessons Learned: N/A

## Cost

G

### PMO Expenses:

- Travel expenses for maintenance technicians
- Travel expenses for BPFTI PM (b) (5)

### TRIRIGA Expenses

- 2 functional support personnel (approximately cost of (b) (5) each annually)
- Travel expenses for 3 trainers to (b) (5) locations (b) (5)





# Portfolio & Operations and Maintenance

## Tower Maintenance and Repair

**(b) (7) (E)**

*Initiative to clean-up all tower portfolio records in TRIRIGA. Once all records are set up properly, all M&R activities will be recorded and processed in a centralized system for towers across the country*

### Schedule G

Milestones	Baseline	Planned	Actual
Tower Property Records Complete	<b>(b)</b>	<b>(5)</b>	
Tower BSIs entered			
Review Lessons Learned with MRO Pilot Team			
Configure Forms and Develop Bus. Process			
Launch Training			
Go-Live			

Schedule assumes (b) (5)



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### Progress / Risk

#### Risks:

- Approximately 1,400 tower (or antenna) sites and (b) (7)(E)
- Additional surveys and support may be needed from USACE

**Major Issues:** N/A

**Lessons Learned:** N/A

### Cost G

No additional cost planned unless an additional resource can be dedicated to the effort to expedite

# Leasing

## GSA Rent Recon – SAP to TRIRIGA



- The GSA rent bill will be uploaded into TRIRIGA.
- The reports now produced in SAP will be produced in TRIRIGA.
- Additional data will be imported
- Additional Fields: Plus Adjustments, Minus Adjustments and Projected Changes.

*This initiative is to move all SAP GSA Rent Recon functions to TRIRIGA to reduce the system interdependencies. This will create efficiencies for the leasing team.*

### Progress / Risk

**Risks:** TBD

**Major Issues:** N/A

**Lessons Learned:** N/A

### Schedule

N

Milestones	Baseline	Planned	Actual
TRIRIGA Analysis Start	TBD	TBD	
TRIRIGA Analysis Comp	TBD	TBD	
TSC Approves Path Forward	TBD	TBD	
Requirements Complete	TBD	TBD	
Design Complete	TBD	TBD	
Testing Complete	TBD	TBD	
Live in System	TBD	TBD	

Note: (b) (5)

### Cost

N

TBD – Cost factors are dependent on workload both in TRIRIGA and SAP.



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# Other TRIRIGA Changes Pending

## Approved:

### *Projects*

- Original Planned End Date – Mandatory Field
- Inflation field in TRIRIGA Budget Formulation

### *O&M*

- Access to edit Blanket Purchase Order Fields

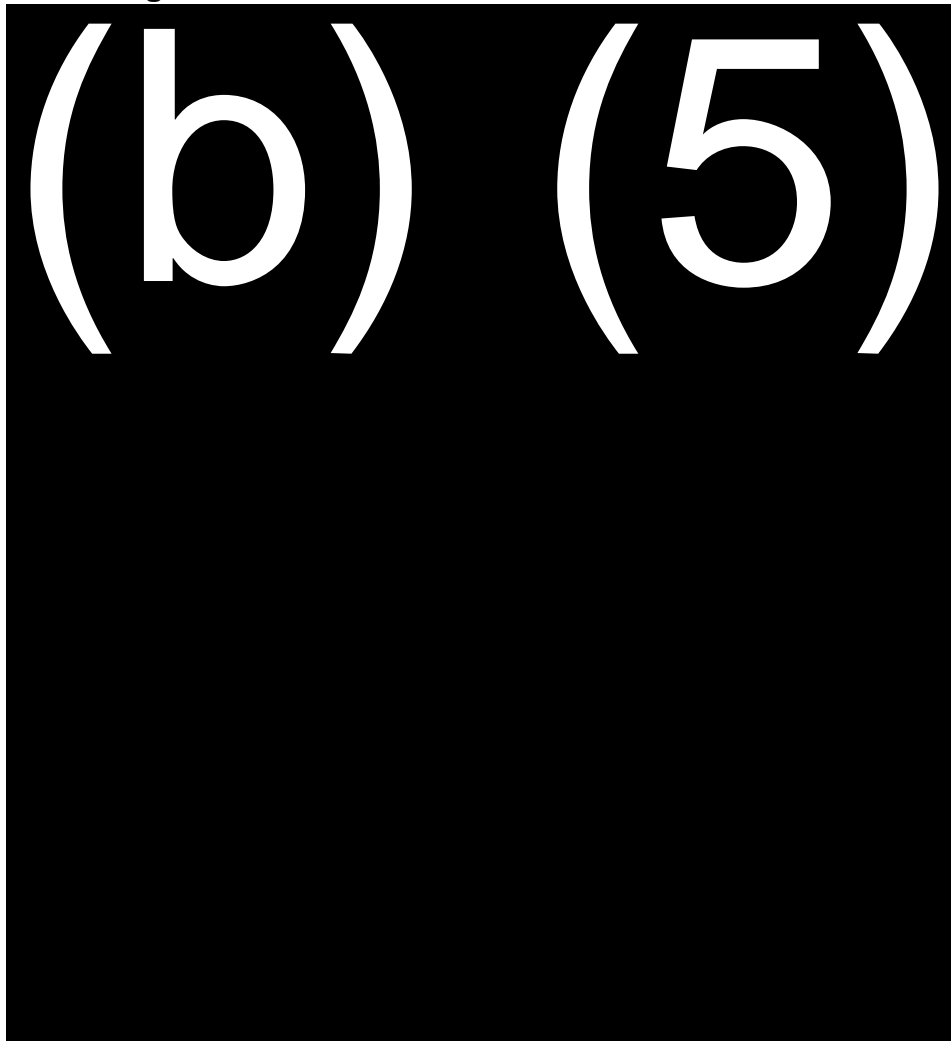
### *Portfolio*

- Reporting categories field provided as pick-list to ease P3B reporting functions
- Energy reporting exempt and Non-Exempt values
- FRPP Updates

### *General*

- TRIRIGA to SAP Integration Corrections
- Automated email notifications

## Pending Review:



# Other Initiatives

## TRIMBLE ROLL OUT

### **Purpose:**

- To train BPFTI personnel to collect spatial data that will be captured in the FITT geographic information system (GIS)

### **What is a Trimble Unit?:**

- A Trimble unit is a GPS used to collect spatial data of a given location

### **Benefits:**

- BPFTI will be able to accurately and timely capture tactical infrastructure maintenance and repair requirements, facility assets, and proposed TI projects without having to rely on the Border Patrol waypoint collectors



---

From: (b) (6), (b) (7)(C)  
To:  
Cc:  
Bcc:  
Subject: Re: FW: Newsweek article on Wildlife and border fencing  
Date: Mon Feb 15 2016 17:59:11 EST  
Attachments: ATT00002.jpg  
FWS consultation request.pdf  
Yaqui Chub\_Thesis\_Final\_draft.pdf

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(b) (6), (b) (7)(C)

Still here and kicking.

Sorry I do not have any information about the number of "cat holes" installed (likely related to costs) or their location. Nor do I recall ever seeing any information from either FWS or TX Parks and Wildlife suggesting the location of wildlife corridors in relation to the cat holes. Here are my thoughts on the matter. (b) (5)

The other major point for CBP to make on this matter is that while it is possible (b) (5)

o the best of my knowledge, there has only been one study which has actually evaluated the impact of the CBP activities on native wildlife (see attached). This MS thesis was completed when FWS wrote a letter to CBP claiming that our border activities were having adverse impacts on listed fish at San Bernardino NWR (see attached). That unsubstantiated claim by USFWS was completely rejected by the MS thesis which found that CBP activities (in this case road dragging) were having no measurable impact on stream sedimentation. I have seen several articles which claim adverse impacts of CBP fence and border patrol on wildlife, and none of these articles contain any data.

(b) (5), (b)(6);(b)(7)(C)

Hope all is well with you and that this information would be of some use.

(b) (6), (b) (7)(C)

On Mon, Feb 15, 2016 at 2:52 PM, (b) (6), (b) (7)(C) wrote:

(b) (6)

Are you still out there??

I am running down the history on the cat holes for (b)(6);(b)(7)(C) ----again. I was reminded that in the original ESP we had planning on (b) (5), (b) (7) cat holes but it appears we actually installed (b) (7)(E). I am trying to remember the why for this.

Do you remember why we only installed (b) (7)(E)?

Thanks!

(b) (6)

From: (b) (6), (b) (7)(C)  
Sent: Sunday, February 14, 2016 9:14 PM  
To: (b) (6), (b) (7)(C), (b) (6)  
Subject: FW: Newsweek article on Wildlife and border fencing  
Importance: High

(b) (6), (b) (7)(C) – Do you recall why CBP chose to put the wildlife openings in the fence where they are currently located? Please see below, there is a question from a Newsweek reporter who wants to know why we apparently did not follow maps of known wildlife corridors that could have been used as wildlife openings in the barrier.

We are looking for a quick response, if you have any details.

Thanks and hope your enjoying Valentines day and the long weekend!

From: (b) (6), (b) (7)(C)  
Sent: Friday, February 12, 2016 3:37 PM  
To: (b) (6), (b) (7)(C)  
Cc: (b) (6), (b) (7)(C)  
Subject: FW: Newsweek article on Wildlife and border fencing



Importance: High

(b) (6), (b) (7)(C)

(b) (6), (b) (7)(C) recommended I reach out to you about the below request from Newsweek on why DHS/CBP chose not to follow maps of known wildlife corridors that could have been used as wildlife openings in the barrier and a statement about that decision - whether perhaps it was related to the fact that environmental regulations were waived so the draft EIS was never completed, or if it was a cost issue, or something else. Also looking for an on the record statement regarding the issue from a CBP official. Her deadline is Friday 19th.

Can you assist?

Thanks in advance,

(b) (6), (b) (7)(C)

Deputy Director – Media Division

Office of Public Affairs

U.S. Customs & Border Protection

Office (b) (6), (b) (7)(C)

iPhone: (b) (6), (b) (7)(C)

From: (b) (6)  
Sent: Tuesday, February 09, 2016 10:32 PM  
To: (b) (6), (b) (7)(C)  
Subject: Re: question for Newsweek article

Thanks for getting back to me. I have reached out to FWS but the folks involved on that side aren't aware of whether and how a decision was made on the openings! It may be a mystery. :-)  
I'll look forward to hearing from you when you're able.

best,

(b) (6)

(b) (6)

Member: ASJA, NASW, SEJ

On 2/9/2016 4:55 PM, (b) (6), (b) (7)(C) wrote:

Hi, I did get it but while I'm working this end you might want to reach out to Dept. of Fish And Wildlife. I too had emergent travel so not able to work this much over the last 24 hours

---

From: (b) (6)  
Sent: Tuesday, February 09, 2016 6:31:37 PM  
To: (b) (6), (b) (7)(C)  
Subject: Fw: question for Newsweek article

Hi there,  
I sent this from the road yesterday so wanted to make sure you received it. Also, if you have an idea when you might be able to get back to me I'd appreciate it. Sorry for the sudden urgency, I know it makes things difficult!

best,

(b) (6)

[Redacted]

Member: ASJA, NASW, SEJ

----- Forwarded Message -----

From: (b) (6)  
To: (b) (6), (b) (7)(C)  
Sent: Monday, February 8, 2016 4:07 PM  
Subject: Re: question for Newsweek article

Hi again,

My editor just informed me that because of the holiday on Monday the deadline on this is moved back. So. the sooner the better!

thanks,

(b) (6)

[Redacted]

Member: ASJA, NASW, SEJ

---

From: (b) (6), (b) (7)(C)  
To: (b) (6)  
Cc: (b) (6), (b) (7)(C)

Sent: Monday, February 8, 2016 10:06 AM  
Subject: RE: question for Newsweek article

Hi (b) (6)

As I'm in the middle of a few projects let's start via e-mail and I'll follow up by phone.

As it is now, I'm researching why DHS/CBP chose not to follow maps of known wildlife corridors that could have been used as wildlife openings in the barrier and a statement about that decision - whether perhaps it was related to the fact that environmental regulations were waived so the draft EIS was never completed, or if it was a cost issue, or something else. Also looking for an on the record statement regarding the issue from a CBP official.

Deadline is Friday 19th.

I'll let you know what I learn and if we can get an interview.

Best,

(b) (6), (b) (7)(C)

Deputy Director Media Division

Office of Public Affairs

U.S. Customs and Border Protection

Office: (b) (6), (b) (7)(C)

From: (b) (6)  
Sent: Friday, February 05, 2016 10:11 AM  
To: (b) (6), (b) (7)(C)

Subject: question for Newsweek article

Hello (b) (6), (b) (7)(C)

I'm writing an article for Newsweek about the border wall. As you know, several presidential candidates have pledged to construct additional barrier and we're looking at how that might affect wildlife and wildlife-related tourism in the Rio Grande Valley in Texas.

I wrote about this issue back in 2011 (you may remember providing information to me then - thanks again!) and learned that biologists prepared maps of known wildlife corridors that could be used to place wildlife openings in the barrier. Those maps were not followed, and I'm looking for a statement about that decision - whether perhaps it was related to the fact that environmental regulations were waived so the draft EIS was never completed, or if it was a cost issue, or something else.

Can you provide a statement for the record or refer me to someone who can? I would need it by the end of next week. Let me know if you need more information.

thanks,

(b) (6)

--

(b) (6)

Member: ASJA, NASW, SEJ

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# United States Department of the Interior

U.S. Fish and Wildlife Service  
Arizona Ecological Services Field Office  
2321 West Royal Palm Road, Suite 103  
Phoenix, Arizona 85021-4951  
Telephone: (602) 242-0210 Fax: (602) 242-2513



In Reply Refer to:

AESO/SE  
22410-2009-TA-0319

DEPT [redacted]

December 17, 2009

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DEC 22 2009  
CHIEF PATROL AGENT  
TUCSON, ARIZONA

(b) (6), (b) (7)(C) Chief Patrol Agent  
U.S. Customs and Border Protection  
2430 South Swan Road  
Tucson, Arizona 85711

Dear Chief (b) (6), (b) (7)(C)

Per recent discussions among Bill Radke, Manager, San Bernardino and Leslie Canyon National Wildlife Refuges (NWRs), my staff, and your agents, this letter seeks to address the effects of specific Border Patrol (OBP) operations on listed species that occur on and adjacent to the San Bernardino NWR in southeastern Arizona. We believe the steps outlined below will serve to minimize effects to listed species and provide Endangered Species Act (ESA) coverage to your activities, without compromising the important work you are doing in the area.

### Affected Resources

San Bernardino NWR was established to protect threatened and endangered fish species, including the Yaqui topminnow, Yaqui chub, Yaqui catfish, and beautiful shiner. Black Draw is one of the few locations in which these fish occur in the United States. The endangered Huachuca water umbel also occurs in Black Draw, and the threatened Chiricahua leopard frog occurs within the drainage. Critical habitat has been designated on San Bernardino NWR for the fish species mentioned above except the Yaqui topminnow. As with most drainages in Arizona, significant flood events can have a profound influence on streams and their inhabitants, particularly when stream morphology is altered and if activities near the streams create new sediment sources.

### Environmental Compliance Context

Federal agencies are mandated to comply with a variety of land use laws, including the National Environmental Policy Act (NEPA) and ESA, among others. The Fish and Wildlife Service is the lead Federal agency for administration of the ESA in Arizona, and as such, we have been working with Federal, State, and private agencies and entities in southeastern Arizona for many years to achieve compliance with that law, which both insulates those entities and agencies from legal liability while promoting conservation of threatened and endangered species and their



habitats. All Federal agencies must consult with the Fish and Wildlife Service on actions that may affect federally listed threatened or endangered species, pursuant to section 7(a)(2) of the ESA. For instance, in the San Bernardino Valley, we have completed section 7 consultations with the Bureau of Land Management on livestock grazing activities and a variety of other BLM actions. All activities at San Bernardino and Leslie Canyon NWRs and all activities funded, authorized, or carried out by the Forest Service on lands in the Peloncillo Mountains and other areas of the Coronado National Forest have also undergone section 7 consultation. As well, we have worked with private landowners in the valley on ESA compliance and species conservation through Safe Harbor Agreements and Habitat Conservation Plans. Under the authority of section 102 of the REAL ID Act, the Secretary of Homeland Security waived a variety of legal requirements, including NEPA and the ESA, in order to expeditiously construct barriers and roads at the international border. However, there is no authority under the Real ID Act to waive OBP operations from environmental laws, and to date, those operations in the San Bernardino Valley and elsewhere in the Tucson Sector have yet to be evaluated under the requirements of section 7(a)(2) of the ESA.

### Border Patrol Activities

A border vehicle fence and road constructed on the Refuge in 2008, which were covered by a Real ID Act section 102 waiver, occupy the border through the San Bernardino Valley, including the San Bernardino NWR. Based on concerns expressed by Refuge Manager Radke, on June 1 and 2, 2009, the Corps of Engineers, working on behalf of Customs and Border Protection, removed the dirt fill and inadequately sized culvert that were placed in Black Draw as part of constructing the border road. The culvert and fill were removed to preclude further damage to Black Draw from erosion and siltation. We have been informed by (b)(6);(b)(7)(C) of LMI that a "railroad car bridge" will be installed over Black Draw in 2010. Further, on June 2, 2009, temporary Jersey barriers were delivered to the site to preclude vehicles from traversing Black Draw until the bridge is in place. We commend OBP and the Corps of Engineers for responding to our concerns in a timely manner.

However, issues remain, and we seek your assistance in resolving them as quickly as possible in order to prevent the significant, and perhaps irreversible, environmental damage we believe is imminent. Specifically, we are concerned with operating vehicles off of established roadways or across wetlands and flowing streams, road dragging, and other activities that can accelerate erosion and mobilize fragile hydric soils characteristic of the San Bernardino NWR. All of these impacts will negatively influence the threatened and endangered species and their recovery on the refuge.

### Effects of Border Patrol activities on Threatened and Endangered Species

Operations that may adversely affect listed species include those that would result in eliminating vegetation, altering natural water flow, reducing water absorption and infiltration, impacting aquifer recharge capacity, impacting wetlands or uplands with petroleum products or other pollutants, and/or increasing siltation within perennial and seasonal streams or washes. A variety of CBP activities are of potential concern to protection of listed fish and other aquatic organisms in the San Bernardino Valley. Some of these CBP activities include: road BW23.FOIA.CBP.022687 Page 202 of 1811



enlarging/upgrading existing roads or two-tracks, new roads initiated through off-road activities, increased vehicle speeds resulting from upgrading roadways, and vegetation clearing. Some of the possible disturbances to listed species from these CBP activities could include soil disturbance, vegetation disturbance, noise disturbance, light disturbance, chemical application, collisions, air quality disturbance, water quality disturbance, increased vehicle traffic, and increased pedestrian traffic. Vehicle use, especially off of established roads, but also dragging of roads increases the potential for soil particles to become airborne during dry periods (affecting air quality, vegetation transpiration, and pollination) and increasing siltation of streams and other wetlands during precipitation events (affecting oxygen availability, gill function, and reproduction of listed fish species).

The biggest issue is erosional and sedimentation problems in drainages, particularly (b) (7)(E) (b) (7)(E) that are likely to adversely affect listed fish and critical habitat. Road dragging loosens surface material, which then is mobilized during precipitation events, washing sediments into these drainages where fishes and their habitats are adversely affected. Yaqui topminnow and Yaqui chub (both listed as endangered) occur in (b) (7)(E) drainage within 100 yards of (b) (7)(E) and critical habitat occurs just downstream of (b) (7)(E) (b) (7)(E) but the distance from (b) (7)(E) to where fish habitat occurs is great enough to likely render those effects insignificant. Currently, the border road (b) (7)(E) (b) (7)(E) however, OBP is anticipating (b) (7)(E), (b) (5) in the future. Additional effects are likely to occur to fishes and fish habitat from this activity.

Refuge Manager Bill Radke has met with OBP agents and identified and discussed specific accelerated erosion and siltation issues at (b) (7)(E) adjacent to (b) (7)(E) and at (b) (7)(E) adjacent to the border road resulting from (b) (7)(E). He also identified and discussed with OBP representatives vegetation changes and water flow changes along the border road resulting from clearing and initiating the new road. The impacts of these activities adversely affect listed species and their habitats in (b) (7)(E) and indicate a need for ESA section 7 consultation.

In regard to evaluating the effects of your activities, action agencies and the Fish and Wildlife Service are mandated to use the best scientific and commercial data available (section 7(c)(1), 50 CFR 402.14(d), 50 CFR 402.14(g)(8)). In concluding that adverse effects are likely occurring from OBP activities, we have depended upon the observations of Refuge Manager Radke, as described above, but also studies and information from other areas and other surrogate species, as no specific quantitative studies have been conducted in the San Bernardino Valley on the effects of OBP activities on the listed species or critical habitats in question. However, in our best scientific judgment, we believe that many studies on effects of sedimentation on fishes, and erosion and sedimentation analyses of road construction and maintenance, are broadly applicable to OBP activities in the San Bernardino Valley and, combined with on-the-ground informal assessments of effects of your actions, constitute the best scientific and commercial data available, consistent with the ESA and its implementing regulations as cited above.

We recently provided (b)(6);(b)(7)(C) with some information and references useful in assessing potential effects of road dragging and maintenance on fishes and their habitats. We have appended that information to this letter. One of the species addressed in that appendix, the Gila

(b) (6), (b) (7)(C) Chief Patrol Agent

chub, is closely related and is a very good surrogate for the Yaqui chub, which occurs in the (b) (7)(E) drainages within 100 yards of (b) (7)(E)

Endangered Species Act Compliance Requirements

Our October 23, 2009, letter from the Fish and Wildlife Service's Regional Director to you outlines operational procedures for accessing San Bernardino NWR and for completing section 7 consultation with us on 'emergency' operations necessary to remedy life-threatening circumstances. However, that process only addresses those specific actions and not all OBP operations in the San Bernardino Valley, which include (b) (7)(E) (b) (7)(E) and other actions. The emergency consultation process also is an inefficient way to address consultation, which requires a separate consultation for each emergency action. We would prefer to consult programmatically and evaluate all of your proposed activities in one consultation.

Potential Resolution

(b) (5), (b) (7)(E)

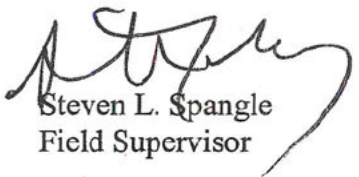
In summary, we look forward to working with you to ensure that all OBP activities minimize the effects to listed species and are in compliance with the ESA. Our preference is that (b) (5), (b) (7)(E)

(b) (5), (b) (7)(E) we stand ready to help complete consultation as quickly as possible.

(b) (6), (b) (7)(C) Chief Patrol Agent

Should you require further assistance or if you have any questions, please contact me at the letterhead phone number (x244) or have your staff contact Sherry Barrett at (520) 670-6150 (x223). Thank you for your continued efforts to conserve endangered species.

Sincerely,



Steven L. Spangle  
Field Supervisor

cc: Regional Director, Fish and Wildlife Service, Albuquerque, NM (ARD-ES)  
(Attn: Susan Jacobsen)  
Assistant Field Supervisor, Fish and Wildlife Service, Tucson, AZ  
Refuge Manager, San Bernardino National Wildlife Refuge, Douglas, AZ  
BW23 FOIA CBP 022690



## APPENDIX

SUMMARIES OF ANALYSES OF SEDIMENTATION AND  
EROSION EFFECTS FROM ROADS ON FISHESGila Box National Riparian Conservation Area Plan, Biological Opinion:

Adverse effects of stream sedimentation to fish and fish habitat have been extensively documented (Murphy *et al.* 1981, Wood *et al.* 1990, Newcombe and MacDonald 1991, Barrett 1992, Megahan *et al.* 1992). Excessive sedimentation may cause channel changes that are adverse to the Gila chub. Excessive sediment may fill backwaters and deep pools used by Gila chub, and sediment deposition in the main channel may cause a tendency toward stream braiding, thus reducing adult chub habitat, as well. Excessive sediment may smother invertebrates, reducing chub food production and availability, and related turbidity may reduce the chub's ability to see and capture food. Fish fry and eggs could also be killed or injured if vehicles are driven through stream segments where these life stages occur.

Barrett, J.C. 1992. Turbidity-induced changes in reactive distance of rainbow trout. Transactions of the American Fisheries Society 121:437-443.

Megahan, W.F., J.P. Potyondy, and K.A. Seyedbagheri. 1992. Best management practices and cumulative effects from sedimentation in the South Fork Salmon River: an Idaho case study. Pp. 401-414 In: Watershed Management. Naiman, R.J., Ed. Springer-Verlag, New York, N.Y.

Murphy, M.L., C.P. Hawkins, and N.H. Anderson. 1981. Effects of canopy modification and accumulated sediment on stream communities. Transactions of the American Fisheries Society 110(4):469-478.

Newcombe, C.P. and D.D. MacDonald. 1991. Effects of suspended sediments on aquatic ecosystems. North American Journal of Fisheries Management 11:72-82.

Wood, D.J., S.G. Fisher, and N.B. Grimm. 1990. Pools in desert streams: limnology and response to disturbance. Journal of the Arizona-Nevada Academy of Science 26:171-182.

Safford/Tucson BLM Grazing Program BO

Adult and juvenile spinedace are not inordinately sensitive to moderate amounts of sediment. However, excessive sedimentation may cause channel changes that are adverse to the species. Excessive sediment may fill backwaters that provide larval and juvenile spinedace habitat, and sediment deposition in the main channel may cause a tendency toward stream braiding, thus reducing adult spinedace habitat. Excessive sediment may smother invertebrates, reducing spinedace food production and availability and related turbidity may reduce spinedace ability to see and capture food. Spinedace are believed to use gravel/cobble/coarse sand substrates for spawning (Propst *et al.* 1986, Minckley *et al.* 1991a). Excessive sediment covers those habitats and reduces reproductive success.

Minckley, W.L., P.C. Marsh, J.E. Brooks, J.E. Johnson, and B.L. Jensen. 1991a. Management toward recovery of the razorback sucker. Pp. 303-357. In: Battle against extinction; Native fish management in the American west. Minckley, W.L. and J.E. Deacon, Eds. University of Arizona Press, Tucson, AZ.

Propst, D.L., K.R. Bestgen, and C.W. Painter. 1986. Distribution, status, biology, and conservation of the spikedace (*Meda fulgida*) in New Mexico. Ed. 15. U.S. Fish and Wildlife Service, Endangered Species Reports, 93 pp.

Bonita Creek Fish Barrier, Repatriation, BLM management, and operation of City of Safford facilities, Biological Opinion

Roads and road maintenance accelerate soil erosional rates and modify natural drainage networks, which degrade stream habitat for aquatic species. Erosion from roads often results in sedimentation of streams and declines in spawning habitat when too high a proportion of fine sediment is deposited. Fine sediments may clog spawning gravels and reduce the availability of oxygen to eggs and increase embryo mortality. Sedimentation also has negative effects on macroinvertebrates (Waters 1995), the primary food supply of Gila chub and many other native fish species. Excess sedimentation could likely cover algae-encrusted rocks and affect feeding habits of macroinvertebrates and native fish.

Road construction, maintenance, and repair make roads more traversable, and could likely result in increased visitor traffic through Bonita Creek, although BLM is committed to minimizing road use through the action area. Previous consultations have addressed access and roads in lower Bonita Creek. Please refer to Biological Opinion, Gila Box Riparian National Conservation Area Interdisciplinary Activity Plan, Graham County, Arizona (2-21-92-F-070, 02-21-92-F-0070-R2).

Waters, T. F. 1995. Sediment in streams: sources, biological effects, and control. American Fisheries Society Monograph 7.



Biological Opinion on Repair and Maintenance of a Road along the San Francisco River:

In addition to the direct mortalities, loach minnow would be adversely affected by habitat modification and destruction due to the presence, maintenance, and repair of the road. The adverse effects of roads on streams has been extensively documented. Roads and their construction and maintenance cause sediment input into streams, contribute to bank and channel instability and erosion, remove or reduce riparian vegetation, and compact bank soils and stream substrates (Dobyns, 1981; Brozka, 1982; Meehan, 1991; Young, 1994; Waters, 1995). Many indirect adverse effects are attributable to roads along streams, including increased pollution, increased recreational use, increased suburban development, increasing channelization, increased removal of large woody debris, and many others.

Because the stream provides habitat for the loach minnow, the adverse effects of the road on the river are also adverse effects to the loach minnow. The most direct of these effects would be through deposition of additional fine sediment into the river. This would occur as a result of the disturbance of riverbanks during the maintenance of the ascension and descension points on the seven crossings. Unless the improvements to the road from the proposed action result in increased use of the road, the sediment contributed by the presence and use of the road should

See

[http://www.fws.gov/southwest/es/arizona/Documents/Biol Opin/0623050263 San Francisco River.pdf](http://www.fws.gov/southwest/es/arizona/Documents/Biol%20Opin/0623050263%20San%20Francisco%20River.pdf) for additional information and full citations.

EFFECTS OF SUSPENDED SEDIMENT ON YAQUI CHUB *Gila purpurea*

By

Stephani L Clark Barkalow

---

A Thesis Submitted to the Faculty of the  
SCHOOL OF NATURAL RESOURCES AND THE ENVIRONMENT

In Partial Fulfillment of the Requirements  
For the Degree of

MASTER OF SCIENCE  
WITH A MAJOR IN WILDLIFE AND FISHERIES SCIENCE

In the Graduate College

THE UNIVERSITY OF ARIZONA

2014

1



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SIGNED: Stephani L Clark Barkalow

APPROVAL BY THESIS COMMITTEE

This thesis has been approved on the date shown below:

\_\_\_\_\_

Scott Bonar, Ph.D.

Associate Professor, Wildlife and Fisheries Sciences

\_\_\_\_\_

Date

\_\_\_\_\_

William Matter, Ph.D.

Professor and Associate Director, School of Natural Resources and the Environment

\_\_\_\_\_

Date

\_\_\_\_\_

David Quanrud, Ph.D.

Associate Research Scientist, School of Natural Resources and the Environment

\_\_\_\_\_

Date

## ACKNOWLEDGEMENTS

I would like to thank U.S. Fish and Wildlife Service, U.S. Department of Homeland Security, and University of Arizona for project funding and support. Particularly I would like to thank Bill Radke, Chris Lohrengel, and Mary Anderson. I would also like to thank Valer Austin (Cuenca los Ojos Foundation) for her support of my research and allowing me to work on Rancho San Bernardino. Thanks to Chuck Minckley for introducing me to Black Draw and accompanying me on my first trip to my field site in Mexico. Thank you to Brian Lang, Kate Boersma, and Michael Bogan for your help with macroinvertebrate sampling procedures. Thank you to Nancy Hornewer for helping me understand sediment sampling procedures. I am truly grateful to all who have helped me with field and lab work, Sally Petre, Jack Ruggirello, Ambre Chaudoin, Olin Feuerbacher, James Cunningham, Chelsea Powers, and Eric Highfield, I couldn't have done it without you. Thank you to Dr. Shirley Papuga and Dr. Zulia Mayar Sanchez-Mejia for use of your laboratory equipment and providing lab access. I thank Katie Hughes and Cindy Cowen for administrative and logistical support throughout my project. Thanks to Norman Mercado Silva for his knowledge and guidance. To my committee members Dr. Bill Matter and Dr. David Quanrud, I have learned more than I ever could have expected from you; your knowledge has been invaluable. I wish to thank my advisor, Dr. Scott Bonar for giving me this amazing opportunity and for his support throughout the project. Finally, I would like to thank my husband, Adam Barkalow, for his help in the field and lab and for helping to keep me sane and grounded throughout this process.

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## Abstract

Yaqui Chub *Gila purpurea* are small minnows native to the Rio Yaqui drainage in southeastern Arizona and northern Sonora, Mexico; in the U.S., they are endemic to Black Draw, a headwater stream of Rio Yaqui originating in southeastern Arizona. Historically, the range of Yaqui Chub included most of the northern Rio Yaqui basin; however, genetic and morphological analyses determined that the range is restricted to San Bernardino National Wildlife Refuge in the U.S. and extends less than 3 km south of the U.S.-Mexico international border. Yaqui Chub are federally endangered in the U.S. and Mexico; they are omnivorous and are capable of rapid population growth in the correct conditions.

Black Draw intersects the U.S.-Mexico international border and is (b) (7)(E) U.S. Border Patrol activities such as dragging unpaved roads to smooth the surface of the road and monitor foot traffic and patrolling on unpaved roads in heavy vehicles may threaten Yaqui Chub by increasing the rate of erosion on unpaved roads, thereby increasing sediment input to Black Draw. Black Draw is crossed by Geronimo Trail and the international border road, unpaved roads that (b) (7)(E). Hay Hollow Wash, a tributary to Black Draw which is dry until monsoon season, is also intersected by the international border road. Due to the ephemeral nature of Hay Hollow Wash, no fish exist in the wash, but it has potential to be a major source of sediment input to Black Draw. U.S. Border Patrol operations could increase sedimentation in both Black Draw and Hay Hollow Wash by increasing erosion on Geronimo Trail and the international border road.

Impacts of total suspended sediment (TSS) on Yaqui Chub are but have been well studied in other species. Excessive sediment in streams affect fish in many different ways. These can include changing food availability for fish, clogging and damaging gills and gill filaments, hindering reproductive efforts, reducing dissolved oxygen in streams, increasing mortality of fish especially sensitive life stages, and increasing healing time for injured fish. Effects of sediment on desert fishes is not always similar. Other desert cyprinids such as Humpback Chub *Gila cypha*, Bonytail Chub *Gila elegans*, Creek Chub *Semotilus atromaculatus* and members of the genus *Hybognathus* are adapted to live in streams with high sediment loads.

Elevated TSS can impact availability of food for fish by decreasing algal growth and decreasing macroinvertebrate abundance and diversity. Elevated TSS causes decreased algal growth by shading and abrading the stream bed, which can reduce food available for macroinvertebrate grazers. High levels of TSS can also impact macroinvertebrates by reducing their habitat through filling of interstitial spaces in substrate, or interfering with their feeding behavior and respiration.

I examined the impact of U.S. Border Patrol operations on sediment load in Black Draw and Hay Hollow Wash by comparing TSS and turbidity upstream and downstream of each road (1) Geronimo Trail at Black Draw, (2) International Border Road at Black Draw and (3) International Border Road at Hay Hollow Wash. I also sampled randomly selected perennially wetted sections of Black Draw to compare total suspended sediment concentration to macroinvertebrate metrics. I used automatic Nalgene stormwater samplers to collect TSS during storm runoff. I also collected water samples during baseflow conditions one time each in June, August, and October to analyze sediment



input during non-flood conditions. Black Draw had low turbidity (0.6-490.0 NTU) and low total suspended sediment (TSS) (10.7-320.2 mg/L) during baseflow conditions. High sediment input occurred from erosion during storms (TSS 20.1-18501.4 mg/L, turbidity 6 - >10000NTU). There was no significant difference between TSS and turbidity upstream and downstream of each stream crossing in Black Draw. The international border road crossing Hay Hollow Wash was not a significant source of sediment. However, there was significantly more sediment downstream of the confluence of Hay Hollow Wash and Black Draw; the Hay Hollow Wash drainage was a significant sediment source to Black Draw. Sediment appears to originate from non-point sources and is delivered to the streams through overland flow, it does not appear to result from U.S. Border Patrol Operations on the crossing roads.

Non-point sediment in Black Draw and Hay Hollow Wash may be prevented from entering the streams by use of buffer strips which slow overland flow and cause sediment to be trapped by vegetation. Effective sediment removal could also be provided by additional gabions, rock and wire structures, sediment removal curtains or sediment removal boxes placed in-stream. Gabions remove sediment from stream water by slowing velocity and causing sediment to fall out of suspension and become trapped behind the structure. Gabions are already extensively used in Hay Hollow Wash and Black Draw. I examined the impact of gabions on sediment concentration in Hay Hollow Wash and Black Draw by calculating the difference between sediment concentration upstream and downstream of gabions. Positive benefit extend for about 90 m downstream of gabions. To help prevent sediment from moving downstream, managers can place gabions across the channel, especially above areas important for fishes such as

spawning areas.

Turbidity is a much easier to measure than TSS; however, there is not always a strong correlation between the two. Therefore I also analyzed the relationship between TSS and turbidity to provide guidelines for future monitoring. Turbidity is often used as a surrogate for TSS because it can be measured in the field, whereas TSS must be measured in a laboratory. There was a strong relationship between TSS and turbidity in Black Draw, so turbidity could be used as a surrogate for TSS measurements; however, turbidity levels during some floods surpassed the maximum values that commonly-available turbidimeters are capable of measuring, 10,000 NTU. Therefore, at levels greater than 10,000 NTU, turbidity cannot be used as a surrogate for TSS.

I also examined impacts of various levels of TSS on sensitive life stages of Yaqui Chub, eggs and fry. In an indoor laboratory at the University of Arizona, I built sediment suspension aquaria and exposed eggs and fry to 6 sediment concentrations (0 mg/L, 300 mg/L, 500 mg/L, 1000 mg/L, 5000 mg/L and 10,000 mg/L), that bracketed levels experienced by the fish in Black Draw. I spawned adult Yaqui Chub in laboratory conditions to obtain eggs and fry for all trials. Eggs were exposed to different sediment concentrations until all eggs had either hatched or died. I analyzed effects of sediment exposure on 8-week old fry over a 5-d period. After the 5-d period, nitrate, nitrite, and ammonia reached high enough levels to stress fish and subjects in the control group began to die. Concentration of TSS that resulted in 50% hatch rate (i.e. median lethal concentration, LC<sub>50</sub>), was 3925 mg/L for eggs. The LC<sub>50</sub> of fry (concentration at which half died) was 8372 mg/L after 12-h exposure; however, after 5-d exposure, LC<sub>50</sub> was only 1,197 mg/L. Fry did not grow significantly (mean 12.8 mm TL at start of

experiment – mean 12.7 TL at end of experiment) in any of the treatments over the 5-d period. Conditions in Black Draw reached the 5-d LC50 during every flood in 2012. I recommend that resource managers utilize sediment removal structures, such as gabions, and natural structures such as buffer strips to enhance survival of sensitive life stages of Yaqui Chub in Black Draw.

Lastly, I examined the impact of TSS on food of Yaqui Chub and other fishes by analyzing the relationship between TSS concentration in Black Draw and dynamics of the aquatic macroinvertebrate community. Macroinvertebrate community measures included overall abundance, taxa richness, percent Ephemeroptera, Plecoptera and Trichoptera (EPT), and ratio of abundance of EPT taxa to Chironomidae abundance (EPT/C). Ephemeroptera, Plecoptera and Trichoptera are pollution sensitive macroinvertebrates that are often used to gauge the level of pollution in streams. Low percentages of EPT in samples indicate a polluted stream. Similarly, a low EPT/C indicates a polluted system. Chironomidae are pollution tolerant and are often found in environments with high sediment or low dissolved oxygen. If Black Draw was impaired by sediment, there would be a low EPT/C. Macroinvertebrates were sampled from designated sites along Black Draw in June, August, and October. Baseflow water samples were taken from all sites concurrently. Floods in the region are unpredictable and can rapidly reach dangerous flows. I could not take samples of macroinvertebrates during flood flows because of danger during collecting. I collected samples in June, pre-monsoon season, August, during monsoon season, and October, post-monsoon season. I used a standard macroinvertebrate sampling procedure at each site. I used a D-framed dip net to sample a 1-m<sup>2</sup> area of the stream and then collected one benthic core at the site

to sample substrate. I separated sediment from macroinvertebrates in all samples and identified macroinvertebrates to family or order. I analyzed taxa richness and abundance by combing dip net samples with core samples to examine temporal trends and verify that data from different sampling periods could be pooled for other analyses. I analyzed samples that were collected by dip net separately from those collected by corer for all other analyses. I analyzed abundance, taxa richness, percent EPT, and EPT/C for correlation to TSS concentrations. Finally, I compared the orders of macroinvertebrates that were sampled with those I identified with those identified in a previous diet study on Yaqui Chub.

I found no relation between macroinvertebrate measures and TSS at base flow levels. Ephemeroptera were plentiful in Black Draw; maximum ratio of EPT to Chironomidae was 79:1 in dip net samples and 2:1 in core samples. Macroinvertebrate taxa that are a food source for Yaqui Chub were present and often abundant in samples. Likely TSS concentrations during baseflow conditions (0-320 mg/L) were simply too low to have an impact on macroinvertebrates. Floods vary in duration from 12 h to 14 d. Higher duration of sediment pulses increases the impacts of TSS on macroinvertebrates. After flooding subsides, TSS concentrations decrease to pre-flood levels. Macroinvertebrates are able to rapidly recolonize disturbed streams from nearby source populations, so disturbance may not be recognizable if samples are not taken during or immediately after floods. Sampling during flood events may have produced more of a relationship between invertebrate metrics and TSS, but was not logistically possible; floods can produce flows that are dangerous for sampling.

In conclusion, I found no discernable impact of current U.S. Border Patrol

operations on sediment concentrations within Black Draw or Hay Hollow Wash. Most of the TSS in the system seems to be coming from overland sheet flow from other sources. TSS commonly reaches concentrations high enough in both Black Draw and Hay Hollow Wash during flood conditions to result in mortality of eggs and fry of Yaqui Chub. TSS concentrations might be reduced by sediment control devices such as gabions, buffer strips, sediment control curtains, mulching, or sediment removal boxes. There was no correlation between TSS and macroinvertebrate community dynamics under baseflow conditions; however, effects of flood conditions on the macroinvertebrate community are unknown.



## RELATION OF UNITED STATES BORDER PATROL OPERATIONS TO SEDIMENT LOAD IN TRIBUTARIES TO THE RIO YAQUI, ARIZONA-SONORA

### **Abstract**

Little is known about the impacts of U.S.-Mexico border operations on aquatic ecosystems. Black Draw, a tributary to the headwaters of the Rio Yaqui, originates in San Bernardino National Wildlife Refuge (SBNWR) in the United States (U.S.) above the U.S. - Mexico border and is home to several species of threatened or endangered fishes. U.S. Border Patrol activities near SBNWR have prompted concern about the possibility of increased sediment input to Black Draw and adjacent Hay Hollow Wash, a tributary to Black Draw. Increased sedimentation could elevate total suspended sediment (TSS) and turbidity in these tributaries, negatively impacting fishes inhabiting the system. I installed 32 Nalgene stormwater samplers, which automatically collect a single 1L first flush grab samples of storm water, along Black Draw and Hay Hollow Wash,. I compared TSS concentrations to turbidity at each site to determine if turbidity could be used as a surrogate measurement for TSS in this drainage. I compared TSS at paired sites immediately upstream and downstream of roads used by U.S. Border Patrol. There was no significant difference in sediment concentration between samples immediately upstream and downstream at any of the paired sampling sites except Hay Hollow. At Hay Hollow Wash, TSS was significantly higher upstream of the international border road than downstream. Hay Hollow Wash was a significant source of sediment for Black Draw. TSS concentrations ranged from 3.0mg/L to 67340.4mg/L and turbidity ranged from 0.6 nephelometric turbidity units (NTU) to greater than 10,000 NTU. Maximum TSS and turbidity exceeded tolerance levels for at least one endangered fish species in

Black Draw. TSS appears to originate from overland flow, not from areas disturbed by U.S. Border Patrol actions. TSS may be controlled through use of gabions, mulching, sediment curtains, and buffer strips to maintain it at a level within tolerance of endangered fish species.

## **Introduction**

The Secure Fence Act (Secure Fence Act of 2006) authorized construction of a reinforced, two-layered fence along 700 mi of the United States (U.S.)-Mexico border to prevent unlawful entry to the U.S.; however, construction and operation of the border fence and associated roads may have environmental implications. The REAL ID Act (REAL ID Act of 2005) gave the Secretary of Homeland Security authority to waive all laws that would inhibit completion of the border fence and roads, including environmental laws, thus increasing the potential for ecological degradation along the U.S.-Mexico border.

Increased border operations, including construction of a reinforced border fence, may be affecting many terrestrial species (Flesch et al., 2009; Lasky et al., 2011). In some cases, the border fence bisects ranges of species, fragmenting habitat. This fragmentation restricts interbreeding among U.S. and Mexican species such as jaguars *Panthera onca*, ferruginous pygmy owls *Glaucidium brasilianum*, and desert bighorn sheep *Ovis canadensis mexicana* (Flesch et al. 2009; Lasky et al., 2011). Wildlife can also be harmed by security operations near the border fence. Many border areas are illuminated at night by permanent and temporary lights to deter illegal entry. Artificial lighting along the border is thought to decrease prey availability for ocelots *Leopardus*

*paradalis*, as light intensity increases, prey activity decreases (Grigione and Mrykalo 2004).

Little is known about impacts of the border fence on aquatic ecosystems. Many aquatic ecosystems are either intersected by the border fence or adjacent to it. Major rivers in Arizona which cross the border fence are the San Pedro River, Santa Cruz River, and Colorado River; these rivers all support a variety of threatened and endangered species (Sprouse 2005). The San Pedro and Santa Cruz rivers both flow from south to north, and the Santa Cruz River crosses the U.S.-Mexico border twice (Sprouse 2005). Smaller aquatic ecosystems include Sycamore Creek, home to the endangered Sonora Chub *Gila ditaenia* and Quitobaquito Springs, home to the endangered Quitobaquatio Pupfish *Cyprinodon macularius eremus*. Another major aquatic ecosystem, the Rio Grande, forms the international border between Texas, the U.S. and Mexico and is home to the endangered Rio Grande Silvery Minnow *Hybognathus amarus* (Bestgen and Platania 1991).

San Bernardino National Wildlife Refuge (SBNWR) features one such aquatic system, located just north of U.S. - Mexico border. Construction of bridges and roads on or near SBNWR, and activities conducted by the U.S. Border Patrol, such as dragging roads to check for footprints and patrolling unpaved roads in and around SBNWR, have prompted concern about increased sediment input to tributaries of the Rio Yaqui, that cross the border. Increased sediment could elevate total suspended sediment (TSS) and turbidity in the Rio Yaqui stream system thus affecting diet and survival of fishes inhabiting the system.

Total suspended sediment is a measure of particles of silt, sand, and gravel which are suspended in the water column (Henley et al. 2000). Turbidity is caused by organic and inorganic particles which cause light to be reflected or absorbed rather than transmitted (Gippel 1989; Henley et al. 2000). Rapid testing of sediment loads can be important in dynamic streams (Gippel 1989). Therefore, turbidity is often used as an indicator of TSS concentrations because it can be measured instantly in the field, whereas water samples must be taken to the laboratory to test TSS. Turbidity is influenced by suspended sediment, but the relationship between TSS and turbidity can vary among streams, so it must be analyzed for individual streams (Gippel 1989; Henley et al. 2000).

[REDACTED] (b) (7)(E), bisect Black Draw, a perennially wetted tributary to the headwaters of Rio Yaqui in southeast Arizona and northern Sonora, Mexico. [REDACTED] (b) (7)(E)

[REDACTED]  
[REDACTED]. The International Border Road bisects Black Draw at the U.S./Mexico border and [REDACTED] (b) (7)(E).

Furthermore, a tributary to Black Draw, Hay Hollow Wash, is also bisected by the International Border Road. Roads can impact the environment by fragmenting habitat, increasing erosion and soil compaction, and by introducing harmful chemicals to the surrounding area (Molles and Gosz 1980; Trombulak and Frissell 2000). The surface of unpaved roads can act as a stream channel during storm events, funneling sediment and other contaminants into streams (Trombulak and Frissell 2000). Additionally, roads can change groundwater and surface water dynamics causing increased runoff during rainstorms, increased gully formations, and increased channel downcutting in streams

(Trombulak and Frissell 2000). Increased erosion of roads, which might be contributed to by vehicle traffic and dragging for footprints, could lead to increased suspended sediment concentration in nearby streams. Decrease in primary productivity, macroinvertebrate density, and fish survival have all been attributed to increased suspended sediment (Molles and Gosz 1980; Newcombe and MacDonald 1991; Davies-Colley et al. 1992; Quinn et al. 1992).

### *Objectives*

My objective was to determine if U.S.-Mexico border operations are an important source of sediment to Black Draw and Hay Hollow Wash. Specifically, my objectives are to:

- 1) Quantify turbidity and TSS levels in Black Draw and its tributary Hay Hollow Wash.
- 2) Determine the relation between turbidity and TSS levels in Black Draw to determine if turbidity can reliably be used as a surrogate for TSS in this stream.
- 3) Determine impact of border patrol activities by quantifying difference in TSS immediately upstream and downstream of roads used by U.S. Border Patrol.
- 4) Identify sources of sediment to selected stream segments.
- 5) Evaluate the impact of existing gabions on sediment concentrations.

### **Methods**

#### *Study area*

My study took place in Black Draw and Hay Hollow Wash, small tributaries to the 73,000 km<sup>2</sup> Rio Yaqui drainage basin located in southeastern Arizona and northeast



Sonora, Mexico (Figure 1.1). In the study area, Black Draw is a downcut stream with intermittent perennial flow. Black Draw is approximately 40 km long, and I sampled 6 km from its intersection with Geronimo Trail to its confluence with Hay Hollow Wash. Stream morphology ranges from small riffles with gravel and cobble substrate to long deep pools with deep silt substrate. Stream bank vegetation consists of cottonwood *Populus fremontii*, black willow *Salix gooddingi*, and honey mesquite *Prosopis glandulosa*; tall overhanging grasses including big sacaton *Sporobolus wrightii* and tobosa *Pleuraphis mutica*; and cattails, *Typha sp.* Seven of the eight species of fish in Black Draw are endangered or threatened in Mexico or the United States (USFWS 1995; SEMARNAT 2010). Yaqui Catfish *Ictalurus pricei* and Yaqui Beautiful Shiner, *Cyprinella formosa* are U.S. federally threatened, and Yaqui Chub, *Gila purpurea* and Yaqui Topminnow, *Poeciliopsis occidentalis sonoriensis* are U.S. federally endangered. Other species found in Black Draw include Yaqui Sucker, *Catostomus bernardini*, Mexican Stoneroller, *Campostoma ornatum*, Mexican Longfin Dace, *Agosia chrysogaster* sp. 1 and Roundtail Chub, *Gila robusta* as well as numerous species of herpetofauna and avifauna. Hay Hollow Wash is a tributary to Black Draw. It is dry until the late summer monsoon season. South of the international border, Hay Hollow Wash contains standing pools of water from the start of monsoon season to mid-September. There are no fish living in Hay Hollow Wash; however, it is densely populated by American Bullfrogs, *Lithobates catesbeianus*, when wetted. Substrate in the wash is primarily silt and clay. The dominant tree species along Hay Hollow Wash is cottonwood; big sacaton is also present.

I identified locations of 3 potential sediment sources in Black Draw and Hay Hollow Wash due to border security activity: (1) the intersection of Geronimo Trail with Black Draw, [REDACTED] (b) (7)(E); (2) the intersection of the U.S.-Mexico International Border with Black Draw, [REDACTED] (b) (7)(E) [REDACTED] and (3) the intersection of the U.S.-Mexico International Border with Hay Hollow Wash, which is also crossed by the international border road. I placed sample sites within 100 m upstream and downstream of these roads so I could measure differences in sediment loads between them and identify the source of sediment input. Within each site, I placed 3 samplers at randomly spaced stations

I also sampled other sites to identify potential sediment sources besides U.S. Mexico Border operations and to evaluate the effects of gabions on TSS concentrations. I placed sampling sites in Black Draw upstream and downstream of the confluence of Hay Hollow Wash; and in all perennially wetted locations 3 km above to 3 km below the U.S. Mexico Border. Three stations, each with a water sampler, were placed in each of these randomly-located sites as well.

At each sampling station, I obtained water samples to measure total suspended sediment (TSS) and turbidity, at base flow and during flood events. All samples were collected between 6/19/2012 and 10/17/2012. Baseflow samples were collected once in June 2012, before monsoon season, once in August 2012, during monsoon season, and once in October 2012, after monsoon season. Baseflow conditions were identified as water levels in the stream that were naturally maintained by drainage from headwater ponds on SBNWR.

To measure TSS and turbidity during flood events, I used Nalgene stormwater samplers, model 1160-1100 (Nalgene, Rochester, NY), in the locations identified above. Nalgene stormwater samplers fill when floodwater stage reaches a pre-designated height. When the stormwater samplers are full, they are automatically plugged with a floating ball so that only a single 1-L first flush grab sample is collected. Each Nalgene stormwater sampler was positioned so that it would collect stormwater when the floodwater rose 30.5 cm above baseflow level. Each sampler was attached to a 2.43- m long square tubular steel post which was pounded into the streambed about 1.21 m to prevent it from being dislodged during a flood.

Floodwater samples were collected within 4 d of a flood and immediately placed on ice in a cooler to prevent sample degradation (ASTM 2010). I transported chilled samples the University of Arizona for turbidity and TSS analysis and refrigerated them upon arrival.

Baseflow samples were obtained by dipping a clean 1-L Nalgene bottle into the center of the channel. These samples were also chilled to prevent sample degradation and transported to the University of Arizona for analysis.

I sampled water under baseflow conditions on 3 separate dates, and water under flood conditions from 4 separate flood events. I analyzed 44 water samples collected under baseflow conditions and 76 water samples collected under flood conditions.

Turbidity can change over time as organic material in the samples decomposes, so turbidity was measured immediately upon arrival at the laboratory (ASTM 2010). Water samples were gently shaken to ensure complete sediment suspension, and I took precautions to prevent introducing air bubbles to water samples which could impact

turbidity readings. I first used a Hach turbidimeter model 2100Q01 (Hach, Loveland, CO), which has a range of 0-1,000 NTU to measure turbidity. After the first flood, I discovered that turbidity levels in many samples exceeded these levels, so I switched to an HG Scientific laboratory turbidimeter model 20014 (HG Scientific, Fort Myers, FL), which has a range of 0-10,000 NTU. The highest turbidity that any turbidimeter on the market was capable of measuring was 10,000 NTU.

For TSS measurements, I filtered water samples through a pre-rinsed, pre-dried, and pre-weighed glass microfiber filter paper, model 934AH (Whatman, Piscataway, NJ). I dried the filter paper at 105°C until a constant weight was achieved. I calculated concentration by dividing the weight of the sediment (mg) by the volume of water (L) (ASTM 2010).

### *Statistical Analysis*

I used analysis of variance (ANOVA) to compare mean sediment concentration among sites. If the ANOVA revealed differences, I performed a Tukey's honest significant difference (HSD) test to determine which sites were significantly different from each other. I compared data from samplers downstream of road crossings to data from samplers upstream of road crossings. If suspended sediment concentration was significantly higher downstream of a potential sediment source than upstream of the potential source, I concluded that the potential sediment source significantly contributed sediment to the stream.

I regressed turbidity on TSS to evaluate the relation between the two for baseflow and flood conditions in Black Draw. I natural log transformed TSS and turbidity in floodwater samples to improve the fit of the regression. Baseflow samples were not

natural log transformed.

I analyzed the impact of existing gabions in Black Draw and Hay Hollow Wash on sediment load to evaluate current sediment sinks. I analyzed the difference in sediment concentration between one sampler within 200 m upstream and one sampler within 200 m downstream of gabions.

Lastly, I analyzed historical flood data from 2011 to estimate duration of flooding in Black Draw. SBNWR manages a stream gauge at the intersection of Black Draw with Geronimo Trail. The stream gauge within Black Draw malfunctioned during the entire flood season of 2012, therefore there were no flood stage data for 2012, the sampling season for my study. The sampler was operational during the 2011 flood season, so those data were used as a surrogate for 2012 flood stage data. The stream gauge was located in a dry part of the streambed, so I designated a flood as the period of time between the start of flow and end of flow.

## **Results**

The range in turbidity and TSS measured at different times was extreme. During baseflow conditions in Black Draw, TSS ranged from 0.2 mg/L to 320.2 mg/L (Table 1.1), whereas during flood conditions, TSS ranged from 20.1 mg/L to 18,501.4 mg/L (Table 1.1). Hay Hollow Wash was only wetted during flood conditions, so I could not compare baseflow conditions to flood conditions. However, TSS load in Hay Hollow Wash (803.9 mg/L to 67,430.4 mg/L) was considerably higher than it was in Black Draw (Table 1.1). Turbidity had a similar pattern. Turbidity in Black Draw ranged from 0.6 to 490 NTU during baseflow conditions and from 451 to greater than 10,000 NTU during



flood conditions (Table 1.2). All but 4 water samples in Hay Hollow Wash had turbidity that was too high ( $> 10,000$  NTU) to be measured by turbidity meters. Turbidity in Hay Hollow Wash ranged from 451 NTU to greater than 10,000 NTU. Sediment not only varied between the two drainages but also by individual flood (Table 1.3).

Regression analysis indicated that a relationship existed ( $R^2 = 0.82$ ,  $df = 38$ ,  $P = 0.005$ ) between TSS and turbidity in Black Draw during baseflow conditions (Figure 1.2). Regression analysis indicated that a relationship existed between the natural log of TSS and the natural log of turbidity in Black Draw during flood conditions ( $R^2=0.92$ ,  $df=28$ ,  $P<0.005$ ) (Figure 1.3).

Sediment input in both streams differed between baseflow and flood conditions. I found no differences in sediment concentration among sites during baseflow conditions (ANOVA;  $F=0.48$ ,  $df=40$ ,  $P=0.49$ ; Figure 1.4), indicating that sediment was not being added to the segment under baseflow conditions. However, TSS concentration among sites in Black Draw did differ under flood conditions (ANOVA;  $F=13.63$ ,  $df=46$ ,  $P<0.05$ )

Analysis of sediment levels among sites showed where sediment was being contributed to Black Draw and Hay Hollow Wash during floods. There was no significant difference in mean sediment concentration between sites immediately upstream (site 5) and downstream (site 7) of the U.S.-Mexico Border in Black Draw (ANOVA;  $F=13.63$ ,  $df=46$ ,  $P<0.05$ ; Figure 1.5). There was no significant difference between sites upstream (site 1) and downstream (site 2) of Geronimo Trail in Black Draw (ANOVA;  $F=13.63$ ,  $df=46$ ,  $P<0.05$ ; Figure 1.5). There was significantly more sediment at the site upstream (site 10) of the U.S.-Mexico border at Hay Hollow Wash than downstream (site 9) (ANOVA:  $F=9.60$ ,  $df=22$ ,  $P<0.05$ ; Figure 1.6). Hay Hollow Wash

was the only significant point source of sediment in Black Draw (Figure 1.5). Significantly higher levels of TSS were measured immediately downstream of the confluence of Black Draw and Hay Hollow Wash (site 11) than immediately upstream (site 8) (ANOVA;  $F=13.63$ ,  $df=46$ ,  $P<0.05$ ; Figure 1.5).

In Black Draw and Hay Hollow wash, sediment concentration downstream of gabions was 10-95% less than samples taken upstream of gabions (Figure 1.7). Sediment removal by gabions was most effective close to the structure, and decreased with distance from the structure. Effects were noted at a maximum distance of 90 m downstream (Figure 1.7).

In 2011, there were 6 flood events ranging from 4 h to 14 d in duration, an average of 4.6 d. Floods occurred from July 9 to August 9. In 2012, the gauge was not operational, but samplers were filled on 4 separate occasions, indicating some degree of flooding, but it was not possible to know how often the stream reached peak flow during the flood events from water samples collected by automatic samplers. All flood events in 2012 contained sediment concentrations which surpassed sediment tolerance of sensitive life stages of Yaqui Chub (Clark Barkalow, Chapter 2, this thesis).

## **Discussion**

Flooding is unavoidable in desert streams, but associated sedimentation can be controlled, either by preventing erosion at the source or by removing sediment from waterways. Controlling erosion at the source rather than removing sediment from a stream once it has been polluted is easier and less costly (Waters 1995). There are many ways to control erosion from roads and other sources including sediment control basins,

earth berms, mulching, and hay bale sediment checks (Burton et al. 1976; Waters 1995). However, the roads I had identified as potential sediment sources were not significant sources of sediment to either Hay Hollow or Black Draw, so controlling erosion at those sites would not reduce sediment input to streams. Sediment can potentially come from many different sources, and it is difficult to try to control erosion from all of them. As a result, resource managers must prevent sediment from entering streams or control sediment within streams instead of at erosion sources.

Buffer strips are commonly used to decrease harmful impacts of sediment on streams (Binkley and Brown 1993; Davies and Nelson 1994; Waters 1995). Buffer strips are spans of intact riparian forest immediately adjacent to streams. They function by slowing water during runoff events, decreasing its erosive power and catching sediment, thereby reducing the amount of sediment that enters streams. The width of buffer strips needed depends on the size of the stream; larger buffer strips protect streams from sediment input better than narrower ones. Regardless of soil characteristics in the watershed wide buffer strips are associated with greater abundance of macroinvertebrates and periphyton in streams than narrow buffer strips, due to fewer deleterious effects of TSS (Davies and Nelson 1994; Waters, 1995). Although the perennially wetted portion of Black Draw originates on SBNWR, the drainage extends north of SBNWR onto private land. For maximum efficacy, land owner cooperation would be needed to extend buffer strips along the entire length of Black Draw and its tributaries.

Methods of in-stream sediment removal include floating sediment control curtains and sediment control mats or boxes which are installed on the stream bottom (IDEQ 2005). A sediment control curtain is a piece of fabric with a fine mesh which allows

water to pass through and holds suspended sediment behind it; a gap is left between the bottom of the curtain and the stream bed to allow fish passage (IDEQ 2005). Sediment laden water can then be pumped out of the stream and filtered, to reduce TSS concentration. Sediment can also be removed using a sediment removal box. A sediment removal box is a sloped box which is placed in a streambed. As water flows up the slope it slows and sediment settles out into a collection box where it is pumped out of the stream into collection hoppers (IDEQ 2005). Both methods are effective at removing suspended sediment; however, they are expensive to implement and labor intensive to operate.

A less expensive method to control sediment in-stream is to dam the stream to create pools which dissipate water energy and cause sediment to fall out of suspension. Organic debris dams, accumulations of organic material in the stream which are capable of decreasing stream velocity, have been shown to decrease particulate matter exported by streams. Bilby (1981) found that removal of organic debris dams increased sediment output by up to 500% (Bilby 1981). A man-made log and brush check dam, or debris dam, can be an effective semi-permanent or temporary structure for slowing flood water and temporarily capturing sediment (Choctowhatchee, Pea and Yellow Rivers Watershed Management Authority 2000). To maximize suspended sediment removal potential of these dams, accumulated sediment can be removed from behind the debris dam and disposed of following storms. This makes man-made debris dams a labor intensive option for removal of sediment from storm water (Choctowhatchee, Pea and Yellow Rivers Watershed Management Authority 2000).

A more permanent in-stream option is a gabion, a stone-filled mesh basket placed in-stream perpendicular to the stream banks (IDEQ 2005). An in-stream gabion slows flood water behind it, causing it to lose energy and sediment to fall out of suspension (Choctowhatchee, Pea and Yellow Rivers Watershed management authority 2000). Existing gabions in Black Draw and Hay Hollow have a positive impact on sediment control (Figure 1.7). Once installed, gabions remove sediment each time a flood occurs; gabions need to be checked after major floods to make sure there has not been any damage done structurally (IDEQ 2005; Choctowhatchee, Pea and Yellow Rivers Watershed management authority 2000). A potential drawback of using in-stream gabions for sediment control is that, when used in streams with high sediment loads, the galvanized wire that holds the gabion together can rust and cause the gabion to fail (IDEQ 2005). With use, upstream of gabions will begin to infill with sediment that has fallen out of suspension. Overtime, this buildup of sediment will result in the stream being less downcut and channelized; decreasing channel incision is a common use of gabions and is intended to slow velocity of flood water (Colorado State Parks 1996). Additionally, aquatic and terrestrial vegetation will grow on sediments captured behind gabions. Vegetation that has been allowed to grow on accumulated sediments may decrease sediment in streams by further decreasing velocity during floods. Water velocity decreases and causes suspended particles to fall out of suspension and become trapped by vegetation (Madsen et al. 2001; Brooks et al. 2013). Gabions are effective immediately for decreasing water velocity and causing sediment to fall out of suspension, and they are effective long term by causing sediment and vegetation to build up and restore the original level of the stream.



In conclusion, I failed to detect any impact of current U.S. Border Patrol operations on roads crossing Black Draw and Hay Hollow Wash on sediment in the system. Sediment input appears to be from overland flow during floods. Sediment concentrations in Black Draw surpassed levels which sensitive organisms are able to tolerate (Clark Barkalow, chapter 2, this thesis). Sediment may be prevented from entering the systems by use of buffer strips. Sediment levels in system may be reduced by the use of in-stream structures such as organic debris dams, man-made organic debris dams, and gabions to remove sediment from Hay Hollow Wash and Black Draw. Resource managers should encourage the formation of debris dams whenever possible and prevent the removal of existing debris dams as a means to decrease sediment output in streams. Although gabions are more expensive to construct than man-made organic debris dams, they are permanent structures and are effective at removing sediment from Black Draw and Hay Hollow Wash. Resource managers should work to identify reaches of Black Draw that are sensitive to increased sediment input, such as areas used for spawning, to determine placement of gabions and other in-stream sediment removal structures.

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Table 1.1. Minimum, maximum, median, mean, total suspended sediment concentration for Hay Hollow Wash and Black Draw, Arizona-Sonora during flood and baseflow conditions, 2012. Standard deviations are in parentheses.

Stream	Conditions	Range (mg/L)	Median (mg/L)	Mean (mg/L)
Black Draw	Baseflow	3.6 – 188.8	14.4	42.2 (62.8)
Black Draw	Flood	20.1 -18,501.4	2,178.4	3,488.6 (3,673.1)
Hay Hollow Wash	Flood	803.9 –	2,7267.7	29,373.1 (18,818.9)

Table 1.2. Minimum, maximum, median, and mean turbidity for Black Draw and Hay Hollow Wash during flood and baseflow conditions. Standard deviations are in parentheses. Mean and median turbidity could not be calculated for Hay Hollow Wash because turbidity levels exceeded capabilities of the turbidimeter.

Stream	Conditions	Range (NTU)	Median (NTU)	Mean (NTU)
Black Draw	Baseflow	0.6-490	10.2	46.9 (94.4)
Black Draw	Flood	6- >10,000	3,563	2,884 (2990)
Hay Hollow Wash	Flood	451- >10,000	NA	NA

Table 1.3. Dates and magnitudes of total suspended sediment (TSS) in floods in Black Draw and Hay Hollow Wash. Standard deviations are in parentheses.

Stream	Date	Range	Median (mg/L)	Mean (mg/L)
Hay Hollow Wash	7/13/2012	25,016.7- 67,430.4	49,845.7	49,493.9 (14,761.9)
Black Draw	7/28/2012	20.1- 18,501.4	3,800.3	46,56.5 (4,645.5)
Hay Hollow Wash	7/28/2012	803.9- 48,871.3	38,295.8	31,219.1 (20,003.7)
Black Draw	8/18/2012	117.1- 22,537.3	3,358.4	5,446.8 (6,728.4)
Hay Hollow Wash	8/18/2012	6,913.6- 27,987.7	17,298.9	18,065.4 (8,136.7)
Black Draw	9/5/2012	34.1- 11,188.0	1,950.2	2,936.8 (3,113.2)
Hay Hollow Wash	9/5/2012	3,102.4- 32,466.4	20,110.4	18,714.2 (12,851.0)

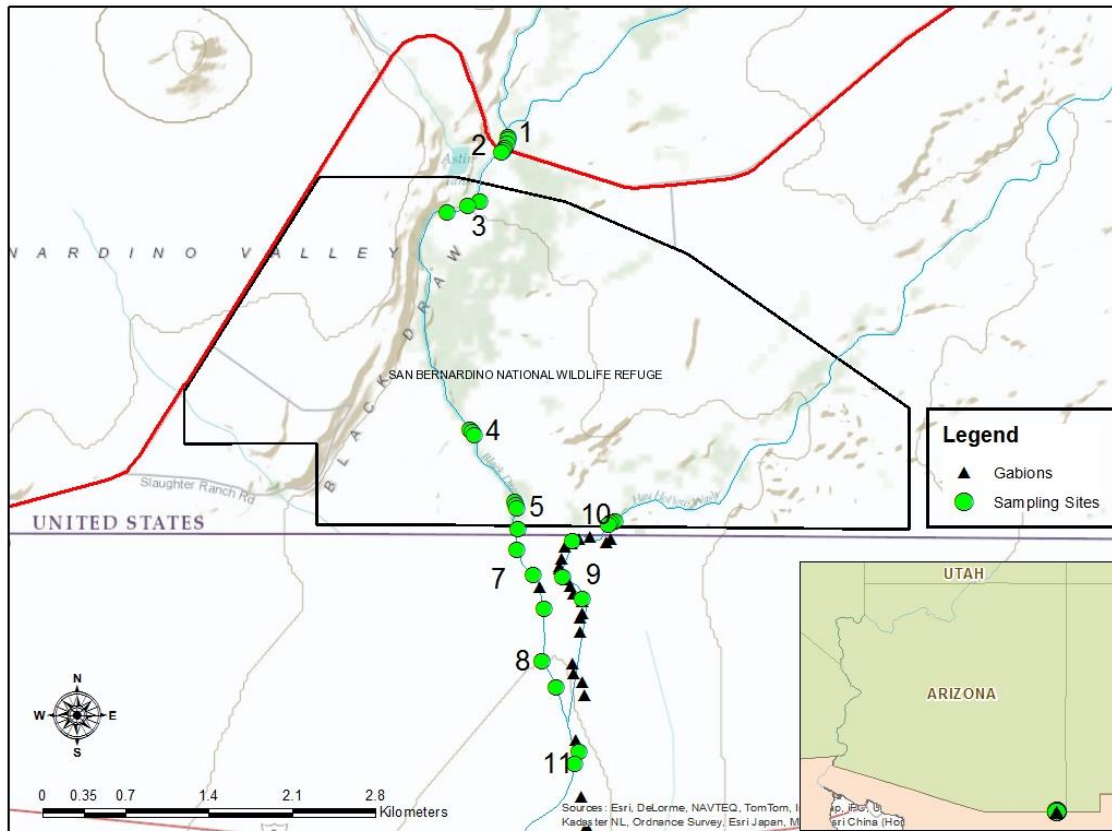


Figure 1.1. Black Draw is a small (40-km long) tributary to the Rio Yaqui basin, located in southeastern Arizona and Sonora, Mexico about 27 kilometers east of Douglas, Arizona/ Agua Prieta, Sonora. Hay Hollow Wash is an approximately 30 km dry wash which joins Black Draw approximately 3 km south of the U.S. - Mexico Border. Green circles indicate sampling stations. Numbers indicate sampling sites. Samplers at sampling site 6 were stolen at the beginning of the study, so data were excluded. I sampled 6 km of Black Draw and 1 km of Hay Hollow Wash.

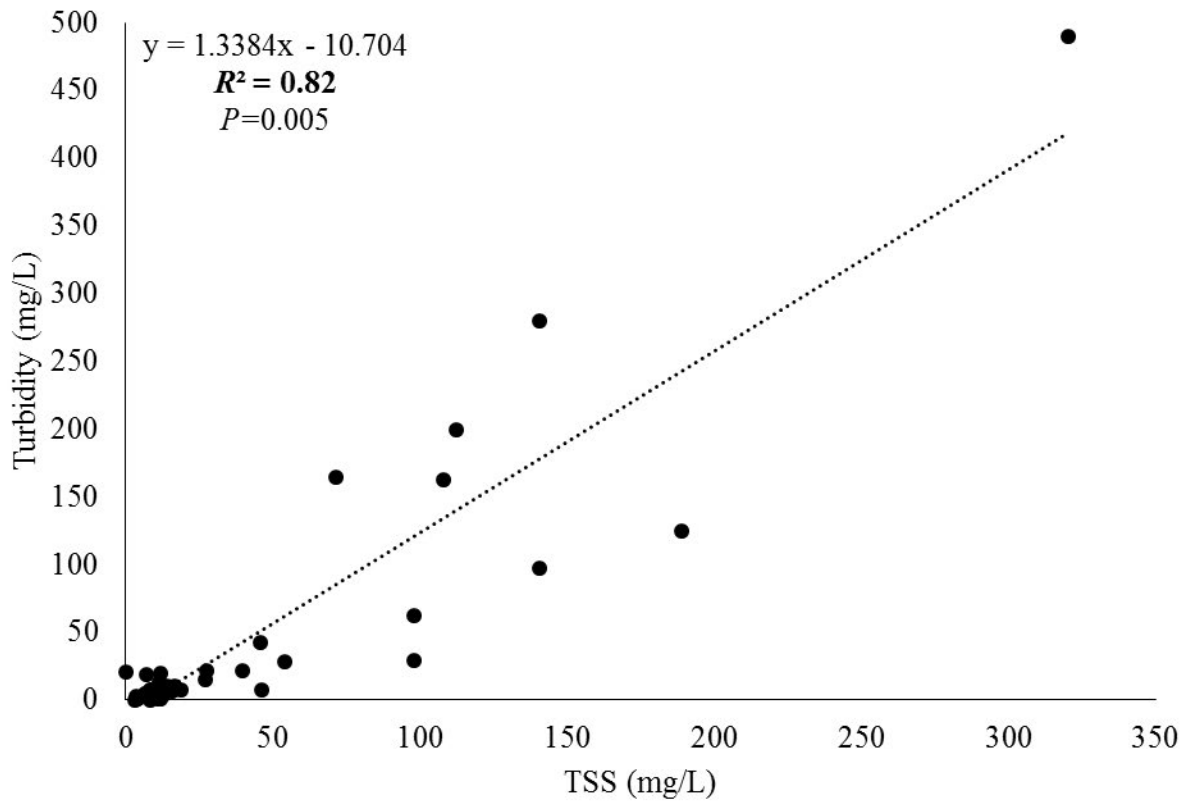


Figure 1.2. Relation between total suspended sediment (TSS) and turbidity in Black Draw under baseflow conditions.



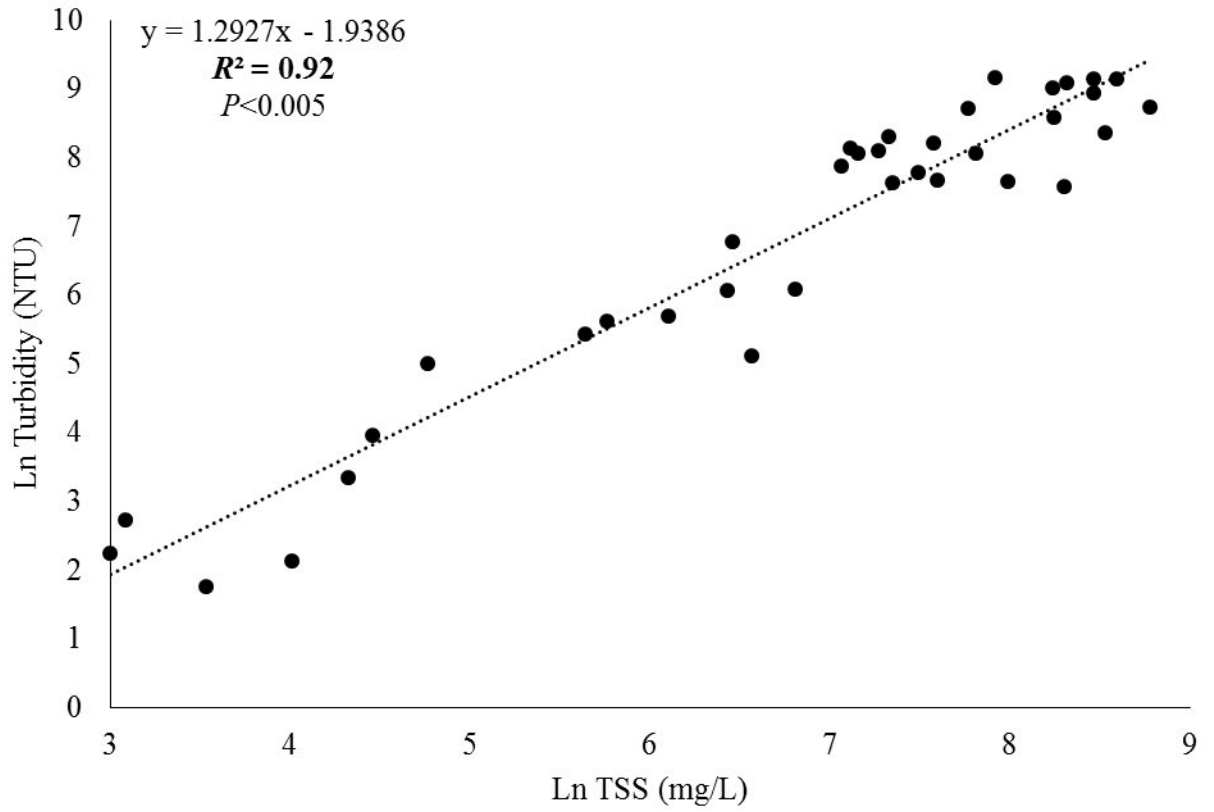


Figure 1.3. Relationship between natural log of turbidity and natural log of total suspended sediment (TSS) in Black Draw during flood conditions.

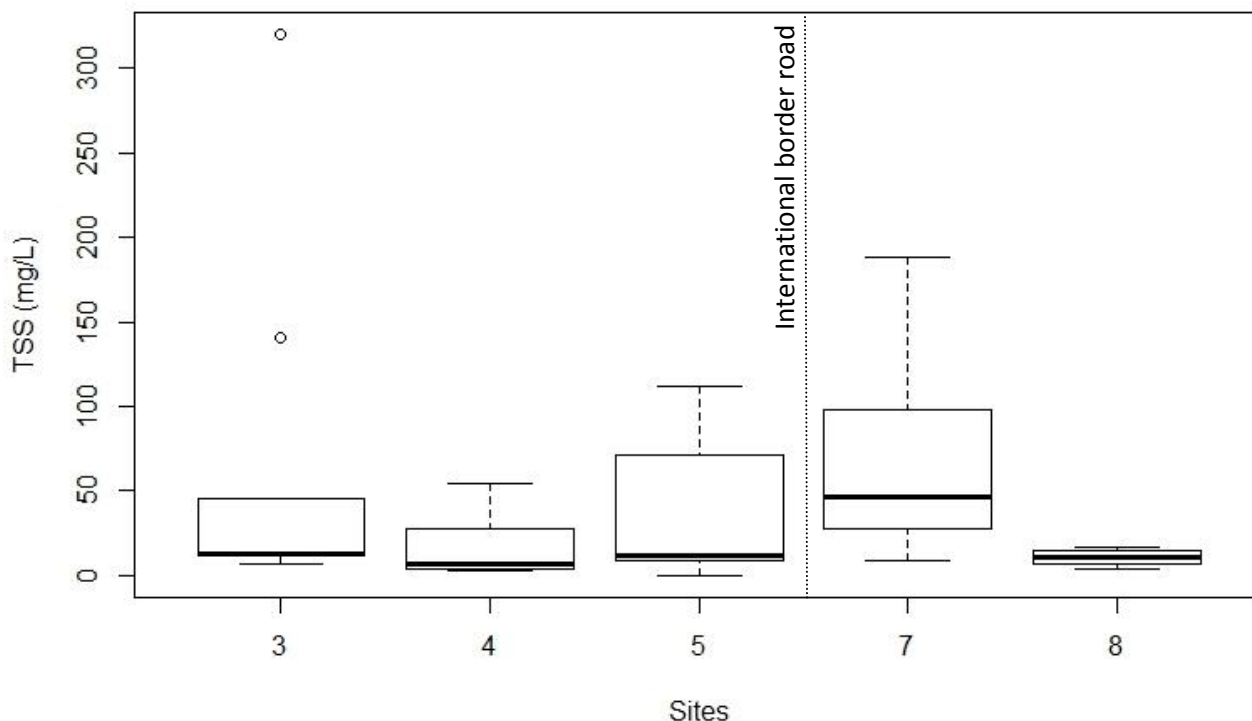


Figure 1.4. Total suspended sediment (TSS) concentration at sites in Black Draw, Arizona-Sonora during baseflow conditions. Site numbers correspond to site locations indicated in Figure 1.1. Sites 1, 2, and 11 are dry during baseflow conditions, so they are not included in the analysis. The whiskers on each boxplot represent the range of measurements within one box length of the box, the dark black line represents the median sediment concentration from each treatment group, and the box represents the 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> quartiles for TSS concentrations. Outliers exist as open circles outside extremes of whiskers. Sites are in order from farthest upstream (3) to farthest downstream (8) (ANOVA:  $F=0.481$ ,  $df= 40$ ,  $P=0.49$ ).

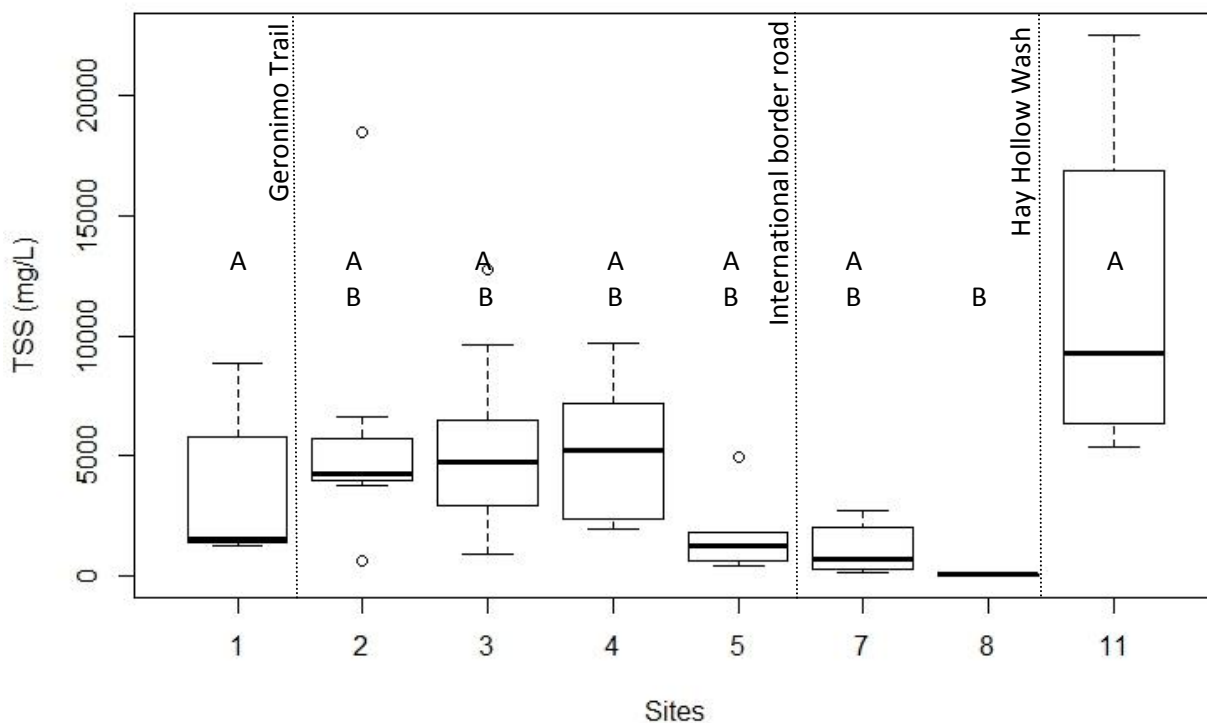


Figure 1.5. TSS concentration at sites in Black Draw during flood conditions. The whiskers on each boxplot represent the range of measurements within one box length of the box, the dark black line represents the median sediment concentration from each treatment group, and the box represents the 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> quartiles for TSS concentrations. Outliers exist as open circles outside extremes of whiskers. Site numbers correspond to site locations indicated in Figure 1.1. Sample sites are arranged on the x-axis from farthest upstream (1) to farthest downstream (11). Letters above site numbers indicate results of Tukey's HSD test. Sites with letters in common are not significantly different ( $P < 0.05$ ) (ANOVA:  $F=13.63$ ,  $df=46$ ,  $P<0.05$ ).

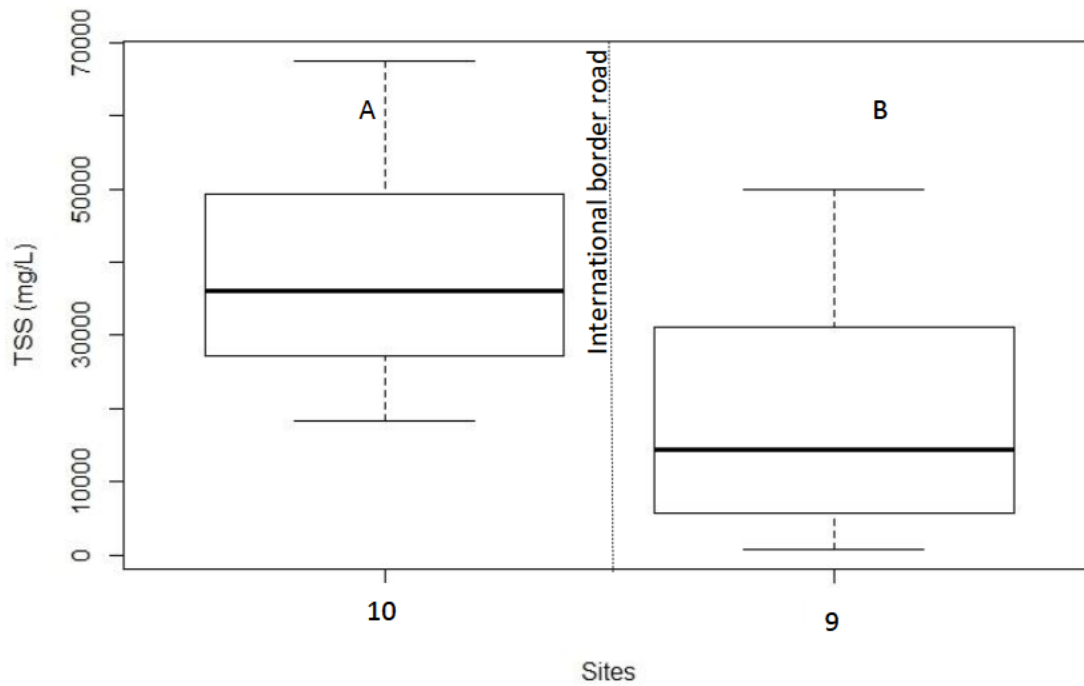


Figure 1.6. TSS concentration at site 10 (upstream of international border) and site 9 (downstream of international border) in Hay Hollow Wash during flood conditions. The whiskers on the boxplot represent the range of measurements within one box length of the box, the dark black line represents the median sediment concentration from each treatment group, and the box represents the 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> quartiles for TSS concentrations. Outliers exist as open circles outside extremes of whiskers. The letters represent results of Tukey's HSD test. Sites with letters in common are not significantly different (ANOVA:  $F=9.60$ ,  $df=22$ ,  $P<0.05$ ).

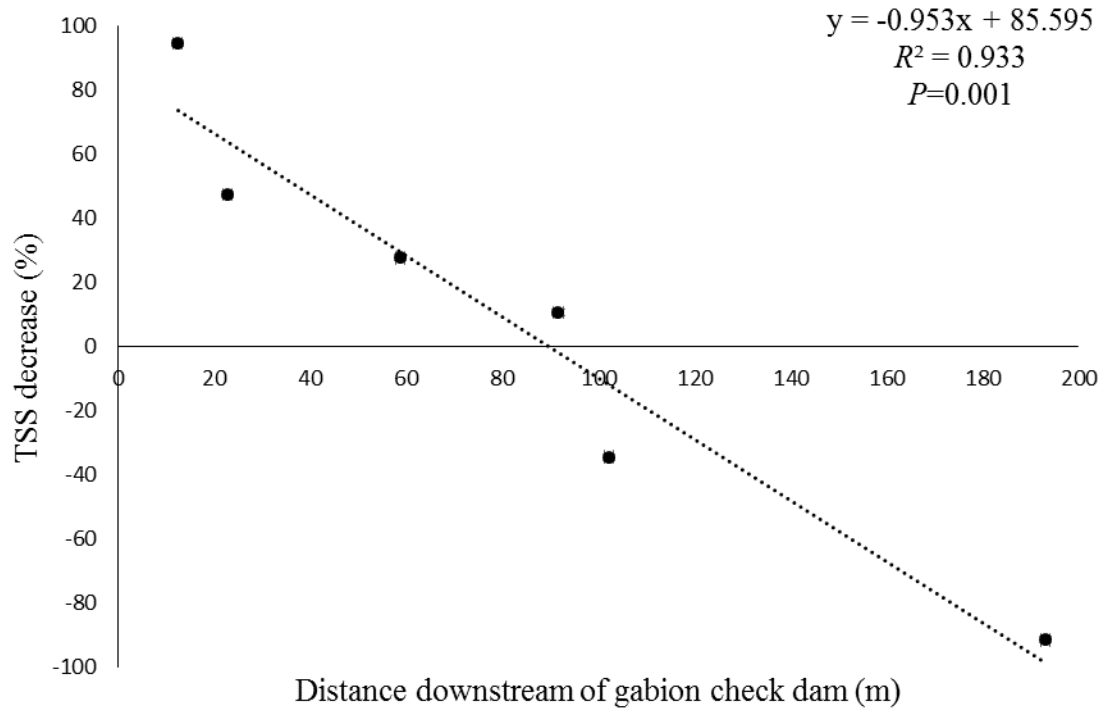


Figure 1.7. Relation between percentage decline total suspended sediment (TSS) and distance from upstream gabion during flood flows in Black Draw and Hay Hollow Wash, Arizona-Sonora.



## EFFECTS OF SUSPENDED SEDIMENT ON SURVIVAL OF SENSITIVE LIFE STAGES OF YAQUI CHUB

### **Abstract**

High levels of total suspended sediment (TSS) have negative consequences on fishes such as altering food supply, lowering food acquisition, clogging gills and disrupting reproduction. Yaqui Chub *Gila purpurea* is a federally-listed endangered cyprinid that lives in streams exposed to elevated sediment loads. I exposed Yaqui Chub eggs and fry (mean total length [TL]= 12.6 mm, SE=0.42) to a range of TSS levels commonly found in one of the few streams they inhabit, Black Draw, which crosses the Arizona/Mexico border. In two experiments, fry and eggs were stocked into 24-L containers, each outfitted with a propeller to suspend sediment collected from Black Draw. Sediment was sifted to 425  $\mu\text{m}$  and sterilized before use in sediment suspension aquaria. I tested effects of 0, 300, 500, 1,000, 5,000 and 10,000 mg/L TSS loads on fry and eggs, each stocked into three replicate containers for each treatment. I ran the sediment exposure experiment on eggs for 5 days at which time all had either hatched or died. Duration of trial with fry was dictated by fry survival in control aquaria. I exposed fry to sediment over a 5-d period; after the 5-d period, nitrate, nitrite, and ammonia levels became impaired enough to stress fish and fish in control aquaria began to die. Fifty percent hatch rate (i.e. median lethal concentration,  $LC_{50}$ ), was 3,925 mg/L for eggs. The  $LC_{50}$  for fry (concentration at which half died) was 8,372 mg/L after 12 h of exposure; however, after 5-d exposure, the  $LC_{50}$  was 1,197 mg/L and ended in an asymptote. Fry did not grow significantly in any of the treatments over the 5-d period. Turbidity levels in Black Draw reached levels lethal to eggs and fry during all 4 flood events in 2012.

Management to reduce TSS in Black Draw may increase survival of eggs and fry of Yaqui Chub.

## **Introduction**

Excess total suspended sediment (TSS) has long been known to harm fish. Suspended sediment may hinder reproductive efforts, reduce survival of sensitive life stages of fish, change diet of fish, clog and damage gills and gill filaments, and reduce dissolved oxygen concentration in streams. Suspended sediment may disrupt reproduction by changing behavior of fish that rely on visual signals for spawning (Bruton and Smith 1985). High concentrations of suspended sediment can reduce survivorship of eggs and larvae, typically the most sensitive life stages of fish, by scouring the epidermis of larvae and smothering and scouring eggs (Boehlert 1984; Berkman and Rabeni 1987). Abrasion of the yolk sac of eggs and epidermis of larval fish can increase exposure to pathogens from the environment (Boehlert 1984; Bruton and Smith 1985). Settling sediment, can smother eggs and create a localized toxic, anoxic environment around fish eggs (Bruton and Smith 1985). At high concentration, TSS can clog and damage gills of adult and larval fish, resulting in mortality and respiratory impairment (Bruton and Smith 1985; Sutherland and Meyer 2007; Kemp et al. 2011). Fish exposed to high sediment loads can also experience delayed healing times for wounds, which can lead to higher prevalence of infections (Herbert and Merkens 1961). Suspended sediment impacts food availability by lessening visibility for visual foragers, reducing macroinvertebrate abundance and diversity, and both shading and scouring algae (Newcombe and MacDonald 1991). High concentrations of suspended sediment

can reduce dissolved oxygen concentrations in streams by causing stream temperatures to increase (Newcombe and MacDonald 1991). Fish are affected by both the concentration of suspended sediment and duration of exposure to sediment, so exposure to a low concentration of suspended sediment over a long period of time can be as harmful as exposure to a high concentration of TSS for a short period of time (Newcombe and MacDonald 1991).

The effects of suspended sediment on salmonids and estuarine fish are well studied, yet less is known about possible negative impacts of sediment on desert fishes (Auld and Schubel 1978; Newcombe and MacDonald 1991). Some desert Cyprinids such as Humpback Chub *Gila cypha*, Bonytail Chub *Gila elegans*, and members of the genus *Hybognathus* are exposed to high concentrations of suspended sediment and have adapted to live in streams with high sediment loads (Minckley 1973; Gradall and Swenson 1982; Remington 2008).

Fish that are adapted for high suspended sediment conditions have developed means to live successfully in such environments. Often these species have smaller eyes and optic lobes and larger olfactory lobes, compared to fish living in clear water (Remington, 2008). In species that are adapted to live in conditions with high suspended sediment, turbidity can be beneficial by providing cover from predators. Creek Chub *Semotilus atromaculatus*, an eastern U.S. species that lives successfully in turbid water, become more active in turbid water and are associated more with the water column than they are in low turbidity water (Gradall and Swenson 1982). Turbidity isolates Creek Chub from predators, and their abundance is positively correlated with turbidity in streams in Illinois (Gradall and Swenson 1982). The degree to which most desert fish,

frequently associated with turbid streams, may have developed such coping mechanisms is unknown.

The Yaqui Chub *Gila purpurea* is a small endangered cyprinid restricted to the Rio Yaqui drainage in southern Arizona and northern Mexico (DeMarais and Minckley 1993). Historically, the range of Yaqui Chub included most of the northern Rio Yaqui basin; however, genetic and morphological analyses determined that the range is restricted to Black Draw, which was historically part of a cienega spring system (DeMarais and Minckley 1993). Black Draw is located on San Bernardino National Wildlife Refuge in the U.S. and extends less than 3-km south of the U.S.-Mexico international border (DeMarais and Minckley 1993; Minckley and Marsh 2009). Black Draw has low concentration of suspended sediment most of the year; however, it receives excessive sediment input during monsoonal floods (Clark Barkalow, Chapter 1, this thesis). Yaqui Chub are primarily found in slow moving water with dense aquatic vegetation and undercut banks that provide cover. Yaqui Chub consume small macroinvertebrates and algae, thus excessive sedimentation could negatively impact diet of the fish if it decreases abundance of benthic macroinvertebrates or scours algae from Black Draw (Galat and Gerhardt 1987; Minckley 1991). Yaqui Chub breed throughout the summer and are capable of rapid population growth under favorable conditions (DeMarais and Minckley 1993). In 1980, 32,000 fish were found in a site that had been stocked with only 200 individuals 4 years earlier (DeMarais and Minckley 1993).

Yaqui Chub are listed as endangered by the US Fish and Wildlife Service (USFWS) and were almost extirpated in the 1960's (USFWS 1984; DeMarais and Minckley 1993). At that time, the spring system began to fail as a result of long-term

human activity in the watershed such as groundwater pumping and cattle farming (DeMarais and Minckley 1993). The springs of Black Draw provided a steady supply of water, leading to development of wells in the late 1800s and increased farming in the area. As farming increased, streams were diverted for irrigation, and groundwater pumping increased (USFWS 1995). Groundwater pumping greatly reduced output from springs in the headwaters of Black Draw. In 1969, Astin Spring, the most permanent source of water in the basin, went dry. As water levels in Black Draw declined, 200 Yaqui Chub were captured and moved to Leslie Creek, a tributary to the Rio Yaqui, and some individuals were moved to Dexter National Fish Hatchery for propagation (DeMarais and Minckley 1993). Both populations reproduced rapidly and Yaqui Chub from Dexter National Fish Hatchery were released back into the river in 1980, following stream restoration (DeMarais and Minckley 1993). San Bernardino National Wildlife Refuge was created shortly after reintroduction of Yaqui Chub for the protection of the fishes of the Rio Yaqui.

Yaqui Chub breed and survive well in the remaining spring system as long as they have clean water with a variety of stream features such as pools and riffles (USFWS 1984). Loss of habitat is the biggest obstacle facing population recovery efforts (Minckley 1991). Part of this habitat loss is due to increased erosion. Cattle grazing in the area increased erosion, trampled the banks of Black Draw, and caused Black Draw to become downcut (DeMarais and Minckley 1993; USFWS 1995). Cattle have been excluded from wetted portions of Black Draw by SBNWR boundary fences, but cattle grazing is still prominent in the surrounding area and upstream of SBNWR.



Additionally, increased human activity along the U.S.-Mexico border has the potential for increased sediment input to Black Draw.

### *Objectives*

Knowledge of the effects of different TSS levels on Yaqui Chub has strong implications for resource managers controlling sediment input to streams of the area.

My goal was to evaluate effects of suspended sediment on sensitive life stages of Yaqui Chub. Specifically, my objectives were to:

- 1) Quantify hatch rate of Yaqui Chub eggs exposed to different levels of TSS
- 2) Quantify fry survival exposed to different levels of TSS.

### **Methods**

I conducted experiments on effects of TSS on Yaqui Chub at the University of Arizona's Campus Agricultural Center. I constructed 18 sediment suspension aquaria to test 5 experimental treatments and a control treatment; with 3 replicate aquaria per treatment. Each aquarium consisted of a 24-L clear cylindrical food safe Rubbermaid<sup>®</sup> container modified to suspend sediment. There are many ways to suspend sediment in aquaria including airlift, agitation, and use of propellers (Schubel et al. 1972; Chilton 1991; Schmidt-Dallmier et al. 1992). Mechanical suspension of sediments in aquaria is most common and was the method I used (Chilton 1991; Schmidt-Dallmier et al. 1992). Sediment suspension systems I used (Figure 2.1) consisted of a Dayton gear motor model # 3M258 (Dayton, Chicago, USA) with counterclockwise rotation attached using a 50.8-cm long, 0.79-cm diameter stainless steel rod to a 15.24-cm diameter, 4-bladed plastic propeller. The motor was attached to a piece of lumber placed above each experimental

aquarium. The motor caused the propeller to spin at 50 revolutions per minute which created uplift and suspended the sediment. The propeller was positioned so that it nearly touched the bottom of each container; this position was most effective for suspension of sediment. I constructed baskets to hold fish in each aquarium of 1.27-cm diameter mainline plastic irrigation tubing, fiberglass window screen, and fiberglass rods. Baskets had a volume of 9840 cm<sup>3</sup> and were elevated above the floor of the aquarium on 10-cm stilts. Propeller shafts ran through a 25.4-cm piece of 1.9-cm diameter polyvinyl chloride (PVC) pipe inserted into the base of each basket to prevent contact between fish and the propeller shaft (Figure 2.1). I inserted the mesh baskets above the propeller in the aquarium, to prevent contact between fish and the propeller. I randomly assigned a treatment to each aquarium at the beginning of the experiment. All trials were run at 21°C.

I collected sediment from a dry portion of Black Draw and sifted it through a 425- $\mu$ m sieve to make sediment easier to suspend (Auld and Schubel 1978; Schmidt-Dallmier et al. 1992). Before I added sediment to aquaria, I sterilized it by heating it in a drying oven to 200°C for 24 h (Trevors 1996).

I selected levels of TSS to simulate the range of TSS levels measured in Black Draw: 0, 300, 500, 1000, 5000, and 10000 mg/L. I measured turbidity in each aquarium at the beginning of the trial and once every 12 h during the experiment to ensure that sediment was not settling. If turbidity was significantly lower and sediment was settling on the bottom of the aquaria, I added more sediment until the original measured turbidity was reached.

Larval fish and eggs (Boehlert 1984) are usually some of the most sensitive life stages of fish to suspended sediments. However, initial experiments showed that larval fish were too sensitive to survive required handling, so I tested effects on 8 week old fry instead of newly hatched larvae.

To produce Yaqui Chub eggs, I induced spawning in adult fish held in a 189-L propagation tank with the bottom lined with 10 cm x 10 cm ceramic tiles covered with plastic light diffuser panels, according to the protocol of Kline and Bonar (2009). Light diffusers reduced predation on eggs by adult Yaqui Chub by limiting access to eggs. After spawning occurred, I removed tiles and attached eggs and moved them to experimental aquaria.

I tested effects of sediment on Yaqui Chub eggs in three replicates each of the 6 different treatments. Trials ran until all eggs either hatched or died, 5 to 6 days. Controls were held in sediment suspension aquaria in clear water; water was agitated in the same manner as experimental aquaria. I placed 1 tile with attached eggs on the bottom of the mesh basket, eggs facing up, and 1 tile at about a 45° angle. Eggs on the horizontal tile was more susceptible to sediment deposition, and eggs on the vertical tile were more susceptible to sediment scouring. Before putting tiles in each aquarium, I enumerated attached eggs so that hatch rates could be calculated. Because differing amounts of eggs were broadcast-spawned on each tile, number of eggs per aquarium varied; a total of 396 eggs were tested in all trials. Eggs began to hatch 4 d after spawning, so every 12 h after a tile was placed in the aquarium, I raised the basket, so that tiles were still submerged, and looked for any hatched fish or eggs that had died (Kline and Bonar 2009). I recorded this information every 12 h. I tested  $\text{NO}_3$ ,  $\text{NO}_2$ , and  $\text{NH}_3$  every 24 h to ensure there were

no harmful effects from poor water quality. I ended a trial when all eggs had either hatched or died. Dead eggs were identified by their cloudy appearance and sediment within the egg; live eggs were relatively clear and an embryo was visible within each. After all eggs had either hatched or died, I poured the contents of each aquarium through a larval dip net and used a dissecting scope to separate larvae from the sediment. I calculated hatch rate as the number of eggs hatched divided by the number of fertilized eggs laid on the two tiles (Auld and Schubel 1978).

For fry experiments, I first hatched eggs in a 75-L incubation tank. I allowed fish to grow for 8 weeks before using them in my experiment. Larvae were fed Zeigler larval AP100 diet (Zeigler, Gardners, PA) twice per day for 2 weeks, and larvae were held at 21°C. They were then fed Zeigler larval AP150-250 twice a day for 2 weeks; Zeigler larval AP250-450 was fed to fry for the final 4 weeks and during the experiment. I used a large pipette to transfer 10 Yaqui Chub fry to polypropylene fish bags and floated the sealed bags in sediment suspension aquaria to allow the temperature of water in the bags to match the temperature in the aquaria. Over a period of 7 h, I transferred 30 mL of water from each experimental aquarium into the floating bag once per hour to allow fish to acclimate to the experimental aquaria. When the bag was full of water, I submerged it and allowed fry to swim out into the experimental aquaria. Each experimental aquarium was treated with the recommended dose of Stress Coat® (API Fishcare, Chalfont, PA) prior to the introduction of fish to reduce transfer stress. Within the first 24 h, aquaria were treated with a second dose of Stress Coat®. Fry were held in the experimental aquaria without any sediment addition for 24 h before the start of the experiment to allow them to acclimate to the aquaria and prevent any mortalities related to transfer stress. I

mixed 15 mL Zeigler larval AP250-450 food with 60 mL of water. Each aquarium received 2 mL of food mixture once a day. Levels of  $\text{NO}_3$ ,  $\text{NO}_2$ , and  $\text{NH}_3$  in each aquarium were tested once per day. Amquel plus (Kordon, Hayward, CA) was added when needed to control potentially harmful concentrations of ammonia, nitrite, and nitrate which built up as the trial progressed. Fry were held in sediment suspension aquaria for 5 d, in order to examine the impact of duration of exposure. I turned motors off once per day and raised each basket so that fish were still submerged in water and counted surviving fish. I removed any dead fish and measured total length if fry were not bloated. I ended the experiment on the 5th day when water quality became toxic and control fish were dying. I euthanized any remaining fish in an MS222 solution in accordance with Institutional Animal Care and Use Committee protocol 12-363 and measured total length on each fish.

I used a logistic growth model to calculate median lethal concentration ( $\text{LC}_{50}$ ) for eggs and fry in experimental aquaria (Hosmer and Lemeshow 2000). For fry, I calculated  $\text{LC}_{50}$  from a logistic dose model at 12-h intervals to test the impact of duration of exposure of  $\text{LC}_{50}$ . In the egg trial, I used Sun-Shepard's formula to calculate adjusted mortality in order to correct for hatch rate that was less than 100% in the control group (Puntener 1981). The average hatch rate of the control group was 83.7%; Sun Shepard's formula is necessary when there is natural mortality in the control population in order to calculate an unbiased estimate of  $\text{LC}_{50}$  (Puntener 1981). I used one-way ANOVA to test for differences in mean growth rate among treatments, the control, and mean length of 10 fish subsampled from the cohorts at the beginning of the experiment.



## Results

### *Egg trials*

Hatch rate decreased as sediment concentration increased (Figure 2.2). Median lethal concentration (LC<sub>50</sub>) for Yaqui Chub eggs was 3925.9 mg/L (SE= 193.3) (Figure 2.2). There were no effects of sediment at concentrations of 0, 300, 500, and 1000 mg/L.

### *Fry trial*

After 24 h, all fry in the 10,000 mg/L treatment had died, and after 48 h, all fry in the 5,000 mg/L treatment had died. I ended trials after the 5<sup>th</sup> day because ammonia, nitrate and nitrite in all sediment suspension aquaria started to stress fish as revealed by deaths in the control aquaria (NO<sub>3</sub>= 20 ppm, NO<sub>2</sub>=3 ppm, NH<sub>3</sub>=1 ppm). Normally, water changes may be used to decrease levels of nitrite, nitrate, and ammonia in aquaria, but water changes were not a viable option because they would have created too much variability in TSS levels. The LC<sub>50</sub> for fry decreased the longer fry were exposed to TSS (Figure 2.3). After 12 h, the LC<sub>50</sub> was 8,372.1 mg/L (SE 747.7); after 108 h, LC<sub>50</sub> was 1197.3 mg/L (SE 255.9 mg/L).

### *Fry growth*

There was no significant difference in mean length of fish by the end of the trials in any of the treatments or in the controls (ANOVA:  $F= 0.87$ ,  $df=68$ ,  $P = 0.50$ ) (Figure 2.4).

## Discussion

### *Eggs*

The LC<sub>50</sub> for TSS for Yaqui Chub eggs (3925.9 mg/L) was much higher than the LC<sub>50</sub> of other fishes. Egg mortality can be caused by TSS concentration as low as 47 mg/L in salmonids (Newcombe and MacDonald 1991). However, Auld and Schubel (1978) found that eggs of Striped Bass, *Morone saxatilis*, and White Perch, *Morone americana*, are able to survive in TSS concentrations up to 2,200 mg/L and 5,200 mg/L, respectively. Most suspended sediment testing has been conducted on estuarine and salmonid species, which typically have low tolerance to suspended sediment. However, many desert fishes are adapted to live in streams with high turbidity. Fish that are adapted to streams with high turbidity often have physical and behavioral adaptations that allow them to survive in conditions with high sediment (Bruton and Smith 1985; Remington, 2008). Sediment tolerance of Yaqui Chub is likely high because it is a desert fish species adapted to live in higher sediment conditions than salmonids and other sensitive fishes.

Horizontal and diagonal tiles were in the same basket, so separating hatch rate of eggs that were susceptible to smothering (eggs on horizontal tiles) from hatch rate of eggs that were susceptible to scour (eggs on vertical tiles) was not possible. Eggs that died during trials tended to first fill with sediment then burst, so by the end of the experiment, dead eggs were difficult to differentiate from sediment on tiles. Other studies have found that eggs that have been smothered accumulate waste around the egg because the sediment coat prevents waste from dispersing (Boehlert 1984; Bruton and Smith 1985). Further, eggs covered by sediment can develop a local anoxic zone around the egg

because developing fish deplete oxygen there and a sediment layer prevents oxygen from reaching the egg (Boehlert 1984; Bruton and Smith 1985).

### *Fry*

Tolerance of fry to TSS depended on both TSS concentration and duration of exposure. This trend has been found in other sediment trials on fish, but was previously noted only in studies of non-sediment contaminants, as summarized by Newcombe and MacDonald (1991), and the relation is important for management of sediment effects on young Yaqui Chub in the wild. When fry were exposed to sediment for only 12 h,  $LC_{50}$  was 8372.1 mg/L. In Black Draw, flood pulses can create sediment concentrations as high as 18,501.4 mg/L. Such high concentrations of sediment, even occurring for short time periods, can negatively affect survival of young Yaqui Chub. Conversely, as exposure time increases to 5 d,  $LC_{50}$  decreased to 1,197.7 mg/L TSS (Figure 2.3).

1,197.7 mg/L is a fairly low concentration of sediment and was found in at least 1 sample site during every flood sampled in 2012; 68% of all flood samples in Black Draw had TSS levels greater than 1,197.7 mg/L. Concentrations of sediment greater than 8,372.1 mg/L were also observed during every flood in Black Draw in 2012, but values this high were uncommon and were observed in only 10% of floodwater samples from Black Draw. Lower sediment concentrations over a long duration may have a more important role in Yaqui Chub mortality than those of higher concentrations over short time periods. Sediment concentrations high enough to approach the  $LC_{50}$  are most common during monsoon season which typically occurs between June and October. Yaqui Chub spawn throughout spring and summer, so there are likely fry in Black Draw affected by high TSS.

Excessive TSS damages fry in many ways. It may damage or clog gills, causing mortality or impaired function (Berkman and Rabeni 1987; Sutherland and Meyer 2007). Exposure to TSS can decrease feeding efficiency (Bruton and Smith 1985). I screened sediment to a maximum size of 425  $\mu\text{m}$  while food was a maximum of 450  $\mu\text{m}$ . Particle sizes of sediment and food were similar, and in most aquaria, food particles were present in lower concentration than particles of sediment. Therefore, fish would have had difficulty obtaining food in sediment treatments, further contributing to mortality and stress. Furthermore, presence of suspended sediment, even for short periods of time, increases stress hormone, cortisol, in fish (Awata et al. 2011). All these factors can have a cumulative effect on stress levels in fry and help to explain why the  $\text{LC}_{50}$  for fry was only 1197.7 mg/L at the end of trials.

#### *Difference between fry and eggs*

$\text{LC}_{50}$  of TSS for Yaqui Chub eggs was 3,925.9 mg/L, whereas 5-d  $\text{LC}_{50}$  of sediment on Yaqui Chub fry was 1,197.7 mg/L. Auld and Schubel (1978) found that eggs of common estuarine fishes are more susceptible to exposure to suspended sediment than fry. Generally, fry, while fragile and susceptible to suspended sediment, are less vulnerable to suspended sediment than eggs because they are able to move and avoid smothering by clearing suspended sediment off their bodies (Auld and Schubel 1978). Although it has not been observed in Yaqui Chub, some cyprinid larvae exhibit “hopping” behavior where they swim to the surface of the water and then sink to aerate the epithelium (Bruton and Smith 1985). Additionally, larvae of Brown Trout *Salmo trutta* are able to keep their bodies free of sediment by pulsing the pectoral fins and creating a current which pushes sediment away; when brown trout larvae develop gills,

they are able to use a coughing motion to expel sediment from their gills to prevent suffocation (Auld and Schubel 1978). Eggs are not mobile, so they would have no chance to clear sediment from the chorion. My experiment tested concentrations of TSS up to 10,000 mg/L; previous studies, such as the one performed by Auld and Schubel (1978) contained lower concentrations of suspended sediment. Results in my experiment may have been different from previous studies due to the high concentration of sediment I used. Fry could be more susceptible to sediment than eggs due to the high concentrations of sediment tested.

Many adult and larval fishes swim to the edges of a stream where suspended sediment concentrations are lower; to reduce harmful impacts (Bruton and Smith 1985). However, in my experiment, sediment was mixed evenly throughout the experimental aquaria, so there was nowhere for fry to move to avoid sediment. In general, larvae and fry are able to avoid smothering by suspended sediment by moving around to clear it off their bodies and are able to cough to prevent sediment from clogging gills and gill rakers (Auld and Schubel 1978).

In my experiment, fry initially had high tolerance to suspended sediment (Table 1). A possible explanation for decreasing tolerance of fry to high TSS levels over time may be as exposure time increased, the harmful effects of sediment exposure produced enough stress to cause death. This idea is supported by Newcombe and MacDonald (1991) who developed a stress index based on the duration and concentration of sediment exposure,  $\text{stress index} = \ln(\text{concentration} \times \text{duration})$ . Their index reflects that stress can increase with increasing duration of sediment exposure, even when sediment concentration does not increase.

### *Fry growth*

There was no measurable growth of fry in any of the aquaria. Likely, the experiment was not of suitable duration to produce measurable increase in total length. However, other studies have found that suspended sediment can decrease growth rate among fish (Crouse et al. 1981; Newcombe and MacDonald 1991).

### *Summary*

I found Yaqui Chub eggs and fry are both susceptible to mortality from suspended sediment at concentrations commonly found in Black Draw during flood conditions. Yaqui Chub breed throughout the summer, so fry and eggs are likely present in Black Draw during monsoon season when Black Draw is most susceptible to sediment pulses from flooding and sediment concentrations are highest. To maximize survival of Yaqui Chub in Black Draw, resource managers need to control sediment during flood conditions and keep TSS less than 1197.7 mg/L, the 5-d LC<sub>50</sub> for fry which, in this experiment, equated to approximately 150 NTU. Maintaining TSS below 1197.7 mg/L would benefit Yaqui Chub egg survival as well. The LC<sub>50</sub> for eggs is higher than the 5-d LC<sub>50</sub> for fry, and there appears to be very little impact of sediment on eggs when it is less than 1,000 mg/L (Figure 2.2). By keeping TSS below the 5-d LC<sub>50</sub>, even for shorter time periods, survival of sensitive life stages of Yaqui Chub can be improved. In the U.S., the only stream Yaqui Chub occupy is Black Draw; however, this information can be applied to other streams where they occur in Mexico.

Controlling duration of sediment exposure is difficult; therefore, effort must be made to control concentration of sediment within Black Draw to keep TSS less than 1197.7 mg/L. Sediment can be controlled by structures such as sediment curtains,



organic debris dams, and stone and mesh baskets called gabions (Clark Barkalow, Chapter 1, this thesis). These structures cause water velocity to slow, creating pooling, which causes sediment to fall out of suspension and get caught behind the upstream side of structures.

Sediment can also be removed before it enters the stream by buffer strips (Binkley and Brown 1993; Davies and Nelson 1994; Waters 1995). Buffer strips are spans of intact riparian vegetation adjacent to streams. Buffer strips slow runoff, decreasing its erosive power and catching sediment, thereby reducing the amount of sediment that enters streams. Although the perennially wetted portion of Black Draw originates on SBNWR, over 30 km of stream channels extend north of SBNWR border onto private land. SBNWR is not able to manage land north of the refuge, so implementing buffer strips along the entire length of Black Draw would be difficult. For maximum efficacy, land owner cooperation would be needed to extend buffer strips along the entire length of Black Draw and its tributaries.

Use of gabions to control sediment in Black Draw and Hay Hollow Wash offers several advantages over other methods. Because they are relatively permanent, need little maintenance, and are able to capture up to 95% of sediment from flood water (Figure 1.8; Clark Barkalow, this thesis, Chapter 1). Flow in Black Draw is intermittent, so fish would not be able to move upstream, regardless of gabion placement. Prioritizing placement of gabions upstream of areas that are most in need of protection from sediment, such as stream reaches that are used for spawning, would reduce expense. With use of gabions and other sediment control methods, TSS concentrations in Black Draw may be able to be held below the LC50 for Yaqui Chub eggs and fry.

For maximum sediment control, gabion baskets may be used in conjunction with riparian buffer strips to remove sediment from Black Draw and prevent it from entering the stream channel.

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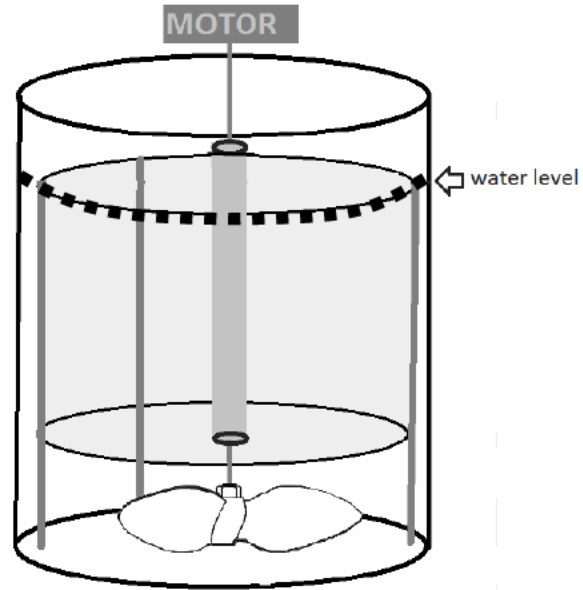


Figure 2.1. Sediment suspension aquaria consisted of a 24-L cylindrical container which housed a mesh basket and propeller for sediment suspension. A piece of PVC pipe prevented contact between fish and propeller shaft. Motor was supported by a piece of lumber suspended above aquaria. Water level was kept below top of the basket.

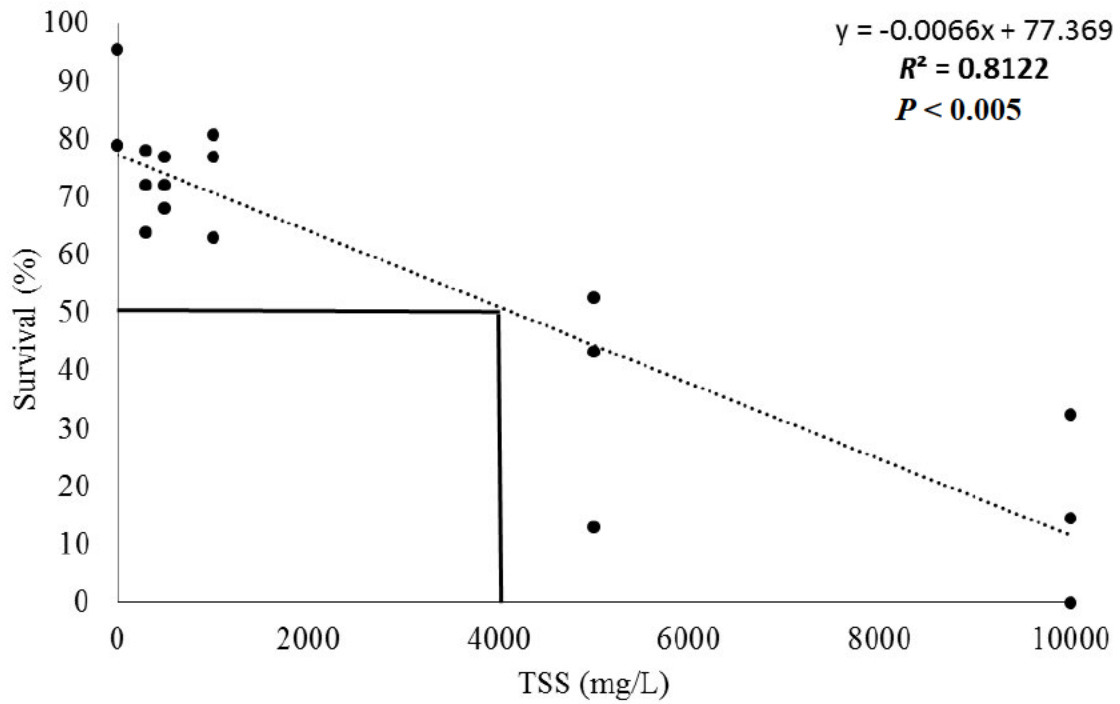


Figure 2.2. Yaqui Chub egg hatch rate as a function of total suspended sediment (TSS) concentration. The black lines show the location of the LC<sub>50</sub>, which was adjusted using Sun-Shepard's formula (Puntener 1981) for hatch rate that was less than 100% in control aquaria.

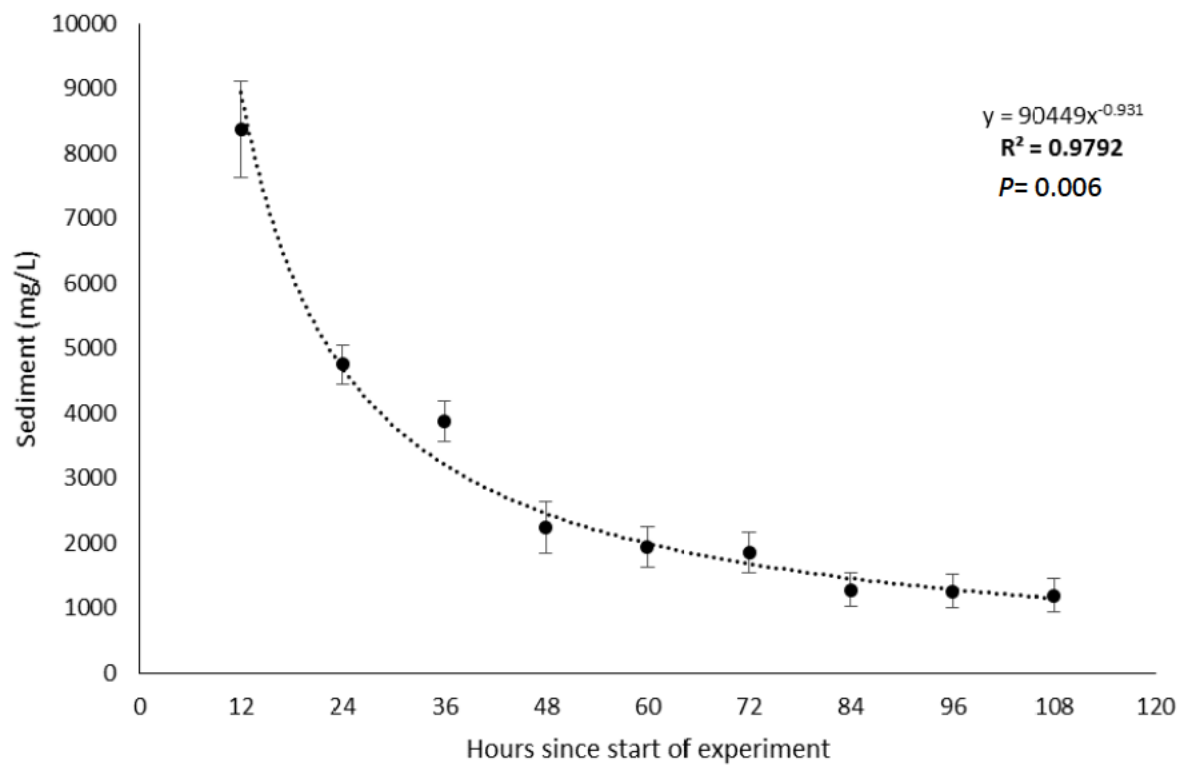


Figure 2.3. Lethal concentration of 50% ( $LC_{50}$ ) of Yaqui Chub fry exposed to total suspended sediment (TSS) as a function of exposure time.

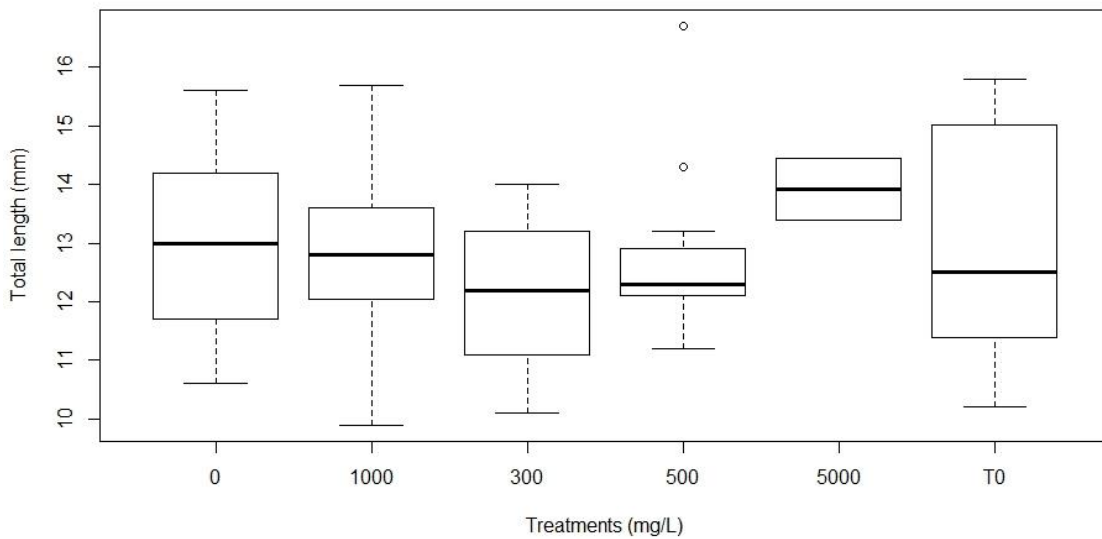


Figure 2.4. Total length of Yaqui Chub fry (mm) after exposure to sediment compared to lengths from  $T_0$ . The whiskers on the boxplot represent the range of measurements within one box length of the box, the dark black line represents the median sediment concentration from each treatment group, and the box represents the 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> quartiles for TSS concentrations. Outliers exist as open circles outside extremes of whiskers (ANOVA:  $F = 0.87$ ,  $df = 68$ ,  $P = 0.50$ ).

MACROINVERTEBRATE ABUNDANCE AND DIVERSITY IN A SONORAN  
DESERT STREAM AND THE RELATION WITH TOTAL SUSPENDED SEDIMENT  
**Abstract**

Spatial and temporal variation in macroinvertebrate abundance and species diversity has been less quantified in Sonoran Desert streams than in other regions. Furthermore, the relationship between total suspended sediment levels in desert streams and macroinvertebrates is unclear. I used benthic cores and a D-framed dip net to sample macroinvertebrates along 6 km of Black Draw, Arizona/Sonora. Macroinvertebrates were sampled once pre-, once during and once post- monsoon season 2012 and all samples were collected in combination with TSS measurements at each sampling site. I found most D-framed dip net samples were dominated by Ephemeroptera (28%), Daphniidae (27%) and Chironomidae (20%). Most benthic core samples were dominated by Chironomidae. No differences between abundance of macroinvertebrates or differences in species diversity and TSS were seen among pre-, during, or post monsoon periods. Decreased macroinvertebrate abundance and taxa richness was weakly correlated with increased TSS. I found no significant correlation between the ratio of Ephemeroptera, Plecoptera and Trichoptera (EPT) abundance to Chironomidae abundance (EPT/C) with TSS and %EPT in macroinvertebrate samples with TSS. Sediment pulses during floods are likely too short and baseflow sediment concentrations too low to affect long-term abundance, diversity, %EPT, or EPT/C of the macroinvertebrate community.



## Introduction

Aquatic invertebrates are frequently used as bioindicators of water quality and aquatic ecosystem health (Barbour et al. 1999; Bae et al. 2005; Hodkinson and Jackson 2005). Macroinvertebrates are commonly used to evaluate water quality because they are abundant and present in many different ecosystems, and they can have varied responses to impaired water quality (Bae et al. 2005). Various metrics have been used to evaluate water quality such as number of total taxa, number of EPT taxa, % EPT, % tolerant organisms, ratio of EPT taxa to Chironomidae, or number of intolerant taxa (Lenat 1988; Merritt and Cummins 1996; Barbour et al. 1999). The taxa represented in EPT, Ephemeroptera, Plecoptera, and Trichoptera, are typically sensitive to pollution, so their presence or absence in a system may aid in evaluation of water quality (Merritt and Cummins 1996; Barbour et al. 1999; Hodkinson and Jackson 2005). Conversely, taxa such as Chironomidae and Oligochaeta are pollution tolerant, so their presence, especially in the absence of more sensitive taxa may indicate degraded water quality (Merritt and Cummins 1996; Hodkinson and Jackson 2005).

Macroinvertebrate communities in the Sonoran Desert are characterized by frequent disturbance, seasonal variation in flow, and rapid generation times. Many Sonoran Desert macroinvertebrates are influenced by drought conditions and have rapid generation times to cope with temporary water (Gray 1981). Streams in the Sonoran Desert are often subjected to disturbance such as flooding and drying, so macroinvertebrate communities often rapidly recolonize from upstream sources or nearby streams following disturbance (Gray and Fisher 1981; Bogan and Lytle 2007). Disturbance may influence development time and macroinvertebrate community

assemblages in Sonoran Desert streams (Gray 1981; Jackson and Fisher 1986; Bogan and Lytle 2007). Macroinvertebrate community composition may change seasonally due to tolerance of individual taxa to changing conditions (Gray 1981; Bogan and Lytle 2007).

Total suspended sediment (TSS) has many effects on macroinvertebrates of Sonoran Desert streams and the ecosystems in which they live. Elevated TSS causes decreased algal growth due to shading and abrasion of the stream bed, and decreased algal growth can lead to a decrease in food availability for macroinvertebrate grazers and cause changes in aquatic food webs (Davies-Colley et al. 1992). High levels of TSS are typically associated with decreased macroinvertebrate density in streams due to changes in the food web and decreased habitat; suspended sediments can settle out of the water column into interstitial spaces in substrate, reducing habitat for macroinvertebrates (Quinn et al. 1992; Henley et al. 2000). Elevated concentration of TSS may also alter community makeup of aquatic macroinvertebrates; elevated TSS may lead to decreased dissolved oxygen (DO) in streams; macroinvertebrate taxa have different tolerances to low DO (Quinn et al. 1992; Henley et al. 2000). Elevated concentrations of sediment in streams have been associated with decreased biomass, taxa richness, density and abundance of macroinvertebrates and can impact feeding and respiration of macroinvertebrates (Wood and Armitage 1997). In general, macroinvertebrate taxa richness in a community declines as water quality declines (Quinn et al. 1992; Merritt and Cummins 1996). Oligochaeta and Chironomidae, taxa that are pollution tolerant, are frequently associated with fine sediment and Chironomidae utilize fine sediment to make tubes and cases (Wood and Armitage 1997). These taxa are less likely to be impacted by sediment pollution than others and may have high abundance in areas

impacted by sediment. High proportions of Chironomidae and Oligochaeta may indicate that a system is degraded.

When aquatic macroinvertebrates are impacted, effects can course through the system. For example, many fish species, eat macroinvertebrates as part of their diets. The aquatic macroinvertebrate diet of Yaqui Chub *Gila purpurea*, an endangered Sonoran Desert cyprinid fish consists of Cladocera, Ostracoda, Collembola, Odonata, Ephemeroptera, Coleoptera and Diptera (Galat and Gerhardt 1987). Increases in total suspended sediment (TSS) may change food supplies by reducing light availability and algal growth and changing the makeup of the macroinvertebrate community (Berkman and Rabeni 1987). Elevated TSS may reduce macroinvertebrate abundance, thus reducing available food supply for these threatened and endangered fish. Monitoring of macroinvertebrates is valuable not only to gauge water quality but also to assess prey availability. However, baseline values of many macroinvertebrate parameters are unavailable for streams of the desert Southwest. Furthermore, although effects of flooding on macroinvertebrate communities are well known, the relationship between TSS at baseflow conditions and macroinvertebrates has been little studied in this region.

### *Objectives*

Therefore, my goal is to provide basic abundance and species diversity information on a Sonoran Desert aquatic macroinvertebrate community, with emphasis on identifying the relationship between TSS and diversity and abundance in a small desert stream, Black Draw, Arizona and Sonora. Specifically, my objectives were to

- 1) Quantify macroinvertebrate diversity and abundance before (June), during (August) and after (October) monsoon season in Black Draw.
- 2) Look for differences in macroinvertebrate diversity and abundance during pre-monsoon (June), monsoon (August), and post monsoon (October) times.
- 3) Measure the relation between macroinvertebrate diversity, abundance and TSS under baseflow conditions.

## Methods

### *Study Site*

Black Draw is an intermittent stream in southeastern Arizona and northern Sonora, Mexico. Black Draw is often pool-like where there is little flow. Black Draw supports 2 species of U.S. federally threatened fish, Yaqui Catfish *Ictalurus pricei* and Yaqui Beautiful Shiner *Cyprinella formosa*, and 2 species of federally endangered species of fishes, Yaqui Chub *Gila purpurea* and Yaqui Topminnow *Poeciliopsis occidentalis sonoriensis*. Other species found in Black Draw include Yaqui Sucker *Catostomus bernaldini*, Mexican Stoneroller *Campostoma ornatum*, Mexican Longfin Dace *Agosia chrysogaster* sp. 1 and Roundtail Chub, *Gila robusta* as well as numerous species of herpetofauna and birds. Seven of the 8 species of fish in Black Draw are endangered or threatened in Mexico or the U.S. (USFWS 1995; SEMARNAT 2010). Riparian vegetation consists of Cottonwood, *Populus fremontii*, Black Willow, *Salix gooddingi*, and Honey Mesquite *Prosopis glandulosa*; tall overhanging grasses including Big Sacaton *Sporobolus wrightii*, and Tobosa *Pleuraphis mutica*; and cattails, *Typha* sp. Black Draw may be impaired due to road crossings used by the U.S. Border

Patrol which may increase sediment load to streams. Black Draw receives sediment input from overland flow during flood events and has low turbidity and TSS during baseflow conditions (Clark Barkalow, chapter 1, this thesis). I sampled 3 km of Black Draw in permanently wetted sections in SBNWR north of the U.S.-Mexico border.

### *Macroinvertebrate sampling*

I sampled macroinvertebrates from Black Draw once in June, August, and October corresponding to before, during, and after monsoon season. Sites were randomly selected from perennially wetted stream reaches; (Figure 1.1; Clark Barkalow, Chapter 1, this thesis). At each sample site I took 1 benthic sample for macroinvertebrates, 1 water column sample for macroinvertebrates and 1 water sample for TSS.

I used a D-frame dip net to collect water column samples. Dip netting produces semi-quantitative results in a variety of environments when a standardized protocol is used (Merritt and Cummins 1996; EPA 2002). I used a D-framed dip net with 500  $\mu\text{m}$  mesh and 30.5 cm diameter (Ben Meadows, Janesville, WI) to semi-quantitatively sample macroinvertebrates by sweeping a 1- $\text{m}^2$  section of stream water at the surface of the stream, mid-channel, and at the bottom of the stream (Merritt and Cummins 1996; EPA 2002). The same person took dip net sample every time to minimize variation among people. In most places, Black Draw has little to no flow, so dip-netting was a reliable method of obtaining samples from the water column. Samples were preserved in 95% ethanol (EtOH).

I built a core sampler based on Madsen et al. (2007) in order to quantitatively sample benthic macroinvertebrates. The core sampler designed by Madsen et al. (2007) had a diameter of 15 cm, but a smaller diameter is necessary when water is shallow or

substrate is loose, as it is in Black Draw, so I decreased the diameter to 10 cm to ensure effective sampling in shallow environments and loose substrate (Gale 1971). The corer tip had height of 20 cm and removed 1,570 cm<sup>3</sup> of sediment with each sample. I took the core sample from mid-channel and preserved the sediment and macroinvertebrates in 95% EtOH. In the laboratory at the University of Arizona, I rinsed sediment from samples in a 425- $\mu$ m sieve (ATM, Milwaukee, WI), replaced samples in a container, and filled the containers with fresh 95% EtOH.

I collected grab samples of water for TSS measurements concurrently with macroinvertebrate samples by dipping a clean 1-L Nalgene bottle into the center of the channel at each site with perennial water. TSS samples were placed in a cooler on ice to prevent sample degradation and transported to my laboratory at the University of Arizona for analysis. I filtered water samples through a pre-rinsed, pre-dried, and pre-weighed glass microfiber filter paper, model 934AH (Whatman, Piscataway, NJ). I then dried the filter paper at 105°C until a constant weight was achieved. I calculated concentration by dividing the weight of the sediment (mg) by the volume of water (L) (ASTM 2010).

I used a Zeiss Stemi-2000 binocular dissecting scope (Carl Zeiss Microscopy, Thornwood, NY) to sort macroinvertebrates from debris in samples and identify all macroinvertebrates, with the exception of Oligochaeta, Hirudinea, and Ostracoda, to family.

### *Data Analysis*

I used 2 biomonitoring metrics to evaluate water quality. Percent of EPT in samples and the ratio of abundance of EPT taxa to abundance of Chironomidae (EPT/C).



I calculated coefficient of correlation for both biomonitoring metrics and TSS. I used a one-way analysis of variance to test the hypothesis that taxa richness and macroinvertebrate abundance did not vary among pre-, during- and post- monsoon season. Furthermore, this test was run to evaluate whether I could pool data from across sampling periods to investigate macroinvertebrate relationships with TSS. I calculated macroinvertebrate abundance and taxa richness in core samples and D-net samples separately. I used a Pearson correlation analysis to compare macroinvertebrate abundance, taxa richness and EPT of the community to TSS along Black Draw under baseflow conditions to measure relation between number of pollution tolerant taxa and overall macroinvertebrate density and turbidity and TSS levels (Brown and Austen 1996).

## **Results**

There was no significant difference in macroinvertebrate abundance (Figure 3.1) or taxa richness (Figure 3.2) across pre-, during- and post-monsoon periods. Because there was no significant difference in abundance or taxa richness across sampling periods, data from separate sampling periods were grouped for other analyses. I identified 29 families and 15 orders of macroinvertebrates (Table 3.2). Fewer families of macroinvertebrates were present in core samples than in dip net samples (Tables 3.1 and 3.2).

### *Correlation between macroinvertebrate abundance and TSS.*

Core samples contained fewer macroinvertebrates than samples taken by dip net (Figures 3.3 and 3.4). There was no correlation between benthic macroinvertebrate abundance and baseflow TSS (Pearson correlation:  $r = -0.18$ ,  $df = 23$ ,  $P = 0.36$ ; Figure

3.3). No correlation was also observed between water-column macroinvertebrate abundance and baseflow TSS concentration (Pearson correlation:  $r = -0.18$ ,  $df = 23$ ,  $P = 0.39$ ; Figure 3.4).

*Correlation between macroinvertebrate taxa richness and TSS.*

Core samples contained fewer taxa than dip net samples (Figures 3.5 and 3.6). No correlation was observed between taxa richness and TSS in core samples (Pearson correlation:  $r = -0.15$ ,  $df = 23$ ,  $P = 0.47$ ; Figure 3.5). No correlation was observed between taxa richness and TSS concentration in dip net samples (Pearson correlation:  $r = -0.21$ ,  $df = 23$ ,  $P = 0.30$ ; Figure 3.6).

*Evaluation of water quality by using macroinvertebrate biomonitoring metrics.*

No Plecoptera were found in any samples, but Ephemeroptera and Trichoptera were present. In core samples, EPT represented between 0% and 66% of macroinvertebrates. There was no correlation between percent EPT and TSS concentration in core samples (Pearson correlation:  $r = -0.25$ ,  $df = 17$ ,  $P = 0.31$ ; Figure 3.7). In dip net samples, EPT represented as much as 77% of macroinvertebrates. There was no correlation between percent EPT and TSS concentration in samples collected by dip net (Pearson correlation:  $r = -0.16$ ,  $df = 23$ ,  $P = 0.45$ ; Figure 3.8).

EPT/C was a maximum of 2:1 in core samples. Most samples contained no EPT. There was no correlation between EPT/C and TSS concentration in core samples (Pearson correlation:  $r = -0.26$ ,  $df = 16$ ,  $P = 0.29$ ; Figure 3.9). EPT/C was a maximum of 79:1 in dip net samples. Only 1 sample contained no EPT. There was no correlation between EPT/C and TSS concentration (Pearson correlation:  $r = -0.15$ ,  $df = 23$ ,  $P = 0.48$ ; Figure 3.10).

## Discussion

I found no relationship between TSS and aquatic macroinvertebrate metrics. Correlation between macroinvertebrate abundance, taxa richness, percent EPT, and EPT/C with TSS concentration was not significant in samples from either dip netting or coring. Others have found high levels of suspended sediment linked to low abundance and taxa richness of macroinvertebrates (Quinn et al. 1992; Henley et al. 2000; Bilotta and Brazier 2008). TSS may negatively impact macroinvertebrates by causing increased drift, decreased abundance, decreased richness or elimination of populations at concentrations of 8 mg/L to 25,000 mg/L (Bilotta and Brazier 2008). In some studies, concentrations of sediment from 1,000 mg/L to 20,000 mg/L had no impact on rates of macroinvertebrate drift (Bilotta and Brazier 2008). In addition to concentration of sediment, duration of sediment exposure influences the effects of TSS on macroinvertebrates (Shaw and Richardson 2001; Bilotta and Brazier 2008). Shaw and Richardson (2001) found that as duration of sediment pulse increased, macroinvertebrate abundance and family richness decreased.

My results may differ from the findings of others because I conducted my analysis at baseflow conditions, which did not encompass a wide range of TSS. In Black Draw, suspended sediment concentrations are low during baseflow conditions; TSS increases substantially during flood season. Water and macroinvertebrate samples were taken during baseflow conditions; the maximum TSS concentration measured was 320 mg/L, all other samples had TSS concentration less than 150 mg/L. Baseflow conditions

have sediment concentration that may be too low to impact biota (Clark Barkalow, Chapter 1, this thesis).

Flood duration in Black Draw, which lasts between 4 h and 14 d (Clark Barkalow, Chapter 1, this thesis), may be too short for long-term effects on macroinvertebrates, or macroinvertebrates may rapidly recolonize following floods. Sediment in Black Draw enters during rain events, so duration of sediment pulses corresponds to flood duration. Sediment pulses in Black Draw have high concentrations of TSS, up to 18501.4 mg/L, but duration of pulses is short. Duration of sediment pulses in Black Draw may be too short to have an impact on macroinvertebrate community dynamics.

If macroinvertebrates are removed following disturbance by flood, there are several ways they can rapidly recolonize a stream. Downstream drift, aerial movements, movement from deep substrates, and movement upstream are all recolonization pathways, though in permanent streams, downstream drift is the most common method of recolonization (Gray and Fisher 1981). In Aravaipa Creek, a nearby desert stream, macroinvertebrate abundance declined by 86% after a flood, yet complete recolonization occurred within 14 d (Meffe and Minckley 1987). The headwaters of Black Draw are a series of managed spring-fed ponds. Water is pumped into ponds from the aquifer and flows from the ponds into Black Draw via pipes. Ponds receive little disturbance during floods and do not receive the same sediment input that Black Draw receives. Water from ponds flows through pipes and into the Black Draw stream channel. These ponds likely provide rapid recolonization via drift from ponds through the pipes into Black Draw. If macroinvertebrates were removed during sediment pulses, the community could recover by recolonization from ponds.

Ephemeroptera and Trichoptera, pollution sensitive taxa, were numerous and often outnumbered Chironomidae, a pollution tolerant taxon. A macroinvertebrate community in favorable conditions would display similar numbers of EPT and Chironomidae leading to EPT/C of around 1 (Plafkin et al., 1989). EPT/C ratio in core and dip net samples was often greater than 1 indicating a stream with low pollution. Though sediment pulses in Black Draw achieved high TSS concentrations, sediment load was low during baseflow and did not seem to greatly affect pollution sensitive taxa. However, pollution tolerance values for macroinvertebrates, such as the EPT index, are usually developed for organic pollutants not inorganic pollutants (Merritt and Cummins 1996). The effects of TSS on EPT/C may be less than high levels of organic pollution. Sovell et al. (2000) found no difference in EPT/C between sites impacted by agriculture with high and low sediment loads. Similarly, Miserendino et al. (2008) found no significant relationship between the EPT/C and TSS. They did, however, find a negative relation between % EPT and TSS.

In summary, I found most D-framed dip net samples were dominated by Ephemeroptera (28%), Daphniidae (27%) and Chironomidae (20%). Most benthic core samples were dominated by Chironomidae. Abundance and diversity of macroinvertebrates did not vary among pre- during- and post- monsoon seasons. Only weak correlations were found between TSS and macroinvertebrate abundance, diversity, %EPT and EPT/C. Future studies should sample Black Draw immediately after sediment pulses to more clearly analyze the impacts of sediment pulses and flood waters on macroinvertebrates. Recolonization of macroinvertebrates following a flood may be rapid due to undisturbed upstream ponds which flow into Black Draw. Future studies

should also sample drift after sediment pulses to analyze macroinvertebrate movement, and avoidance, of sediment pulses and the timing of recolonization. Examining macroinvertebrate relation to TSS is important to provide indications of stream condition and the ability of the stream to support fish; macroinvertebrate monitoring in Black Draw is particularly important due to the number of threatened and endangered fish that are present in the stream. However, my data do not indicate substantial impacts of TSS on macroinvertebrate communities under baseflow conditions, or differences in communities measured at three different dates across monsoon (flood) season.



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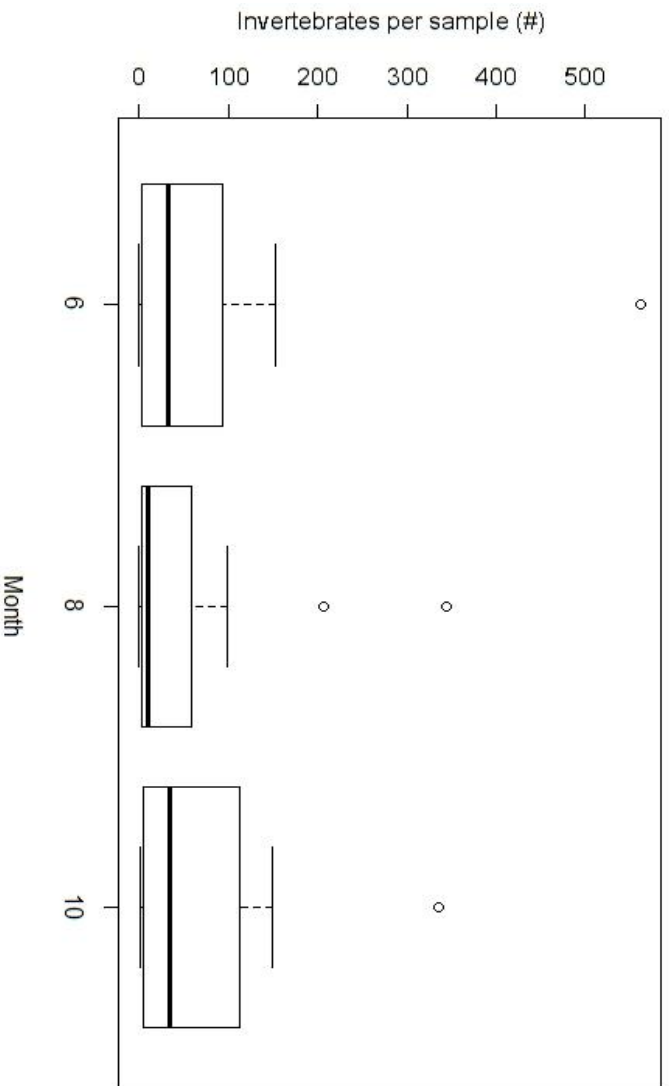
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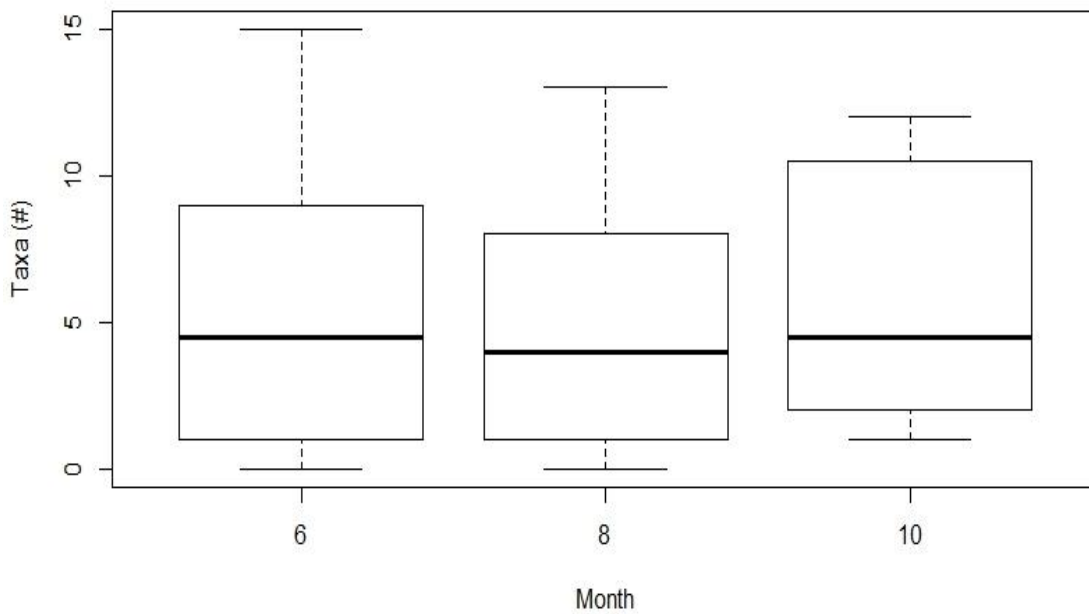
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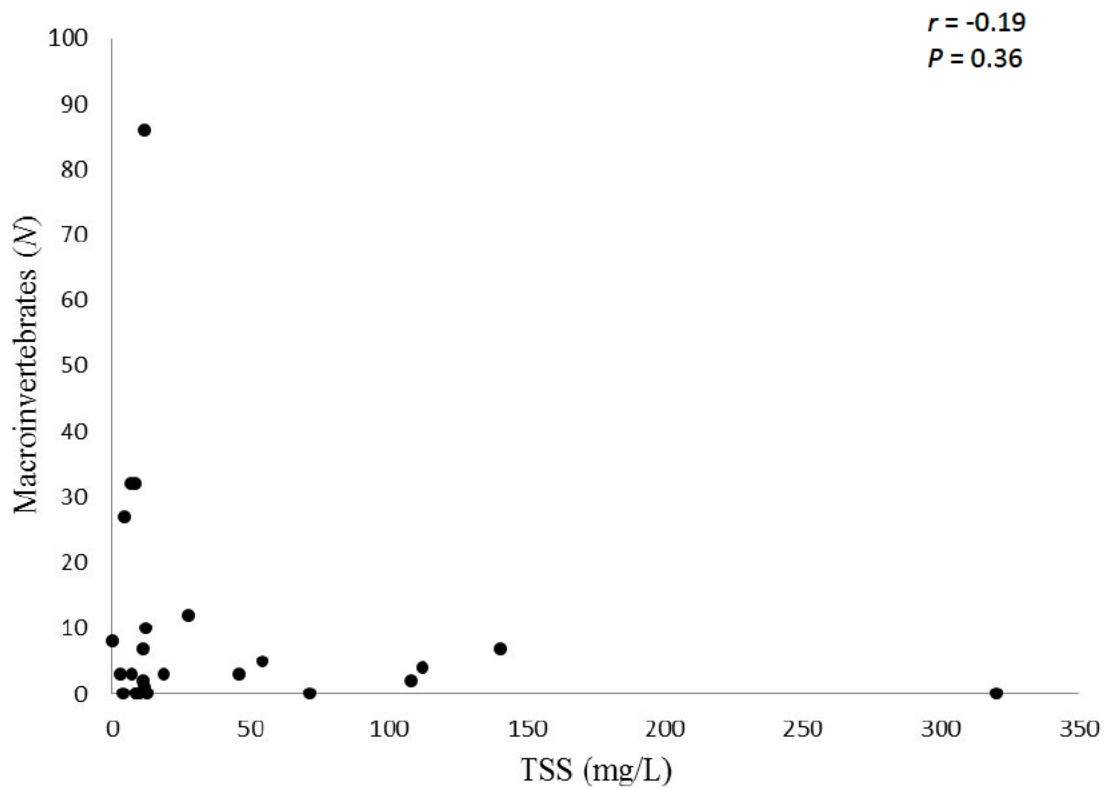


**Figure 3.1.** - Macroinvertebrate abundance in combined dip net and core sample by month, Black Draw, Arizona. The whiskers on the boxplot represent the range of measurements within one box length of the box, the dark black line represents the median sediment concentration from each treatment group, and the box represents the 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> quartiles for TSS concentrations. Outliers exist as open circles outside extremes of whiskers. (ANOVA:  $F = 0.0$ ,  $df = 48$ ,  $P = 0.99$ ).

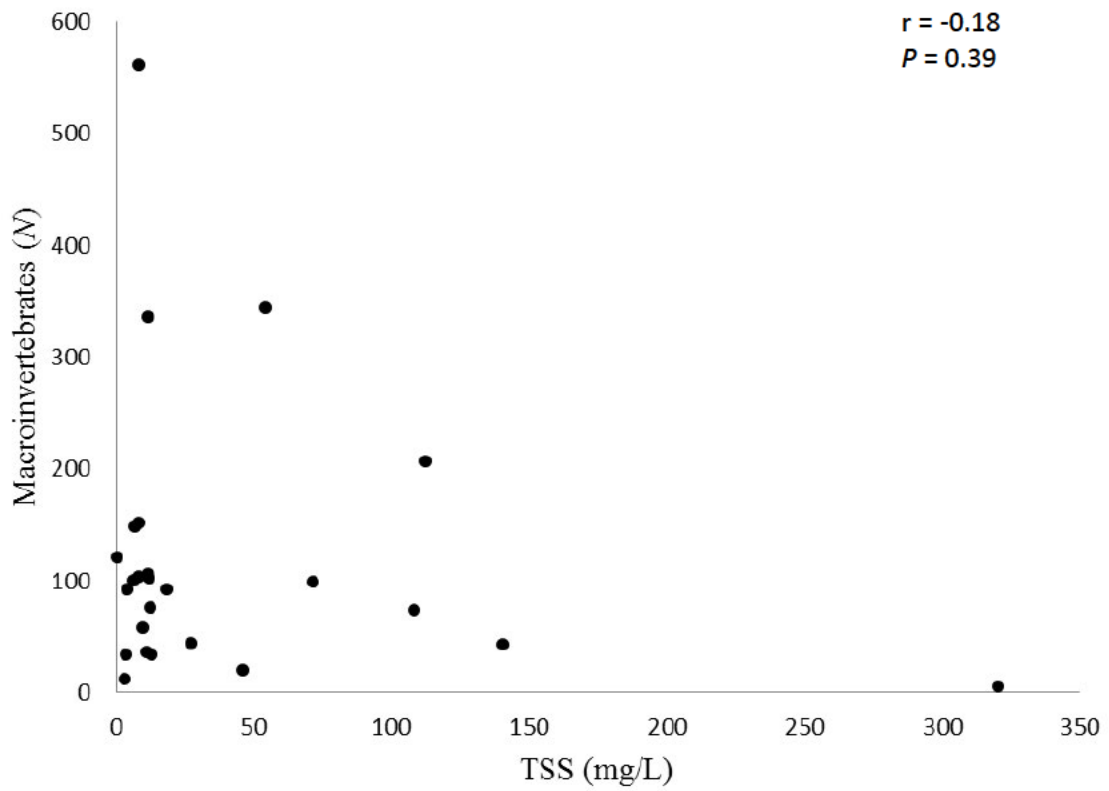




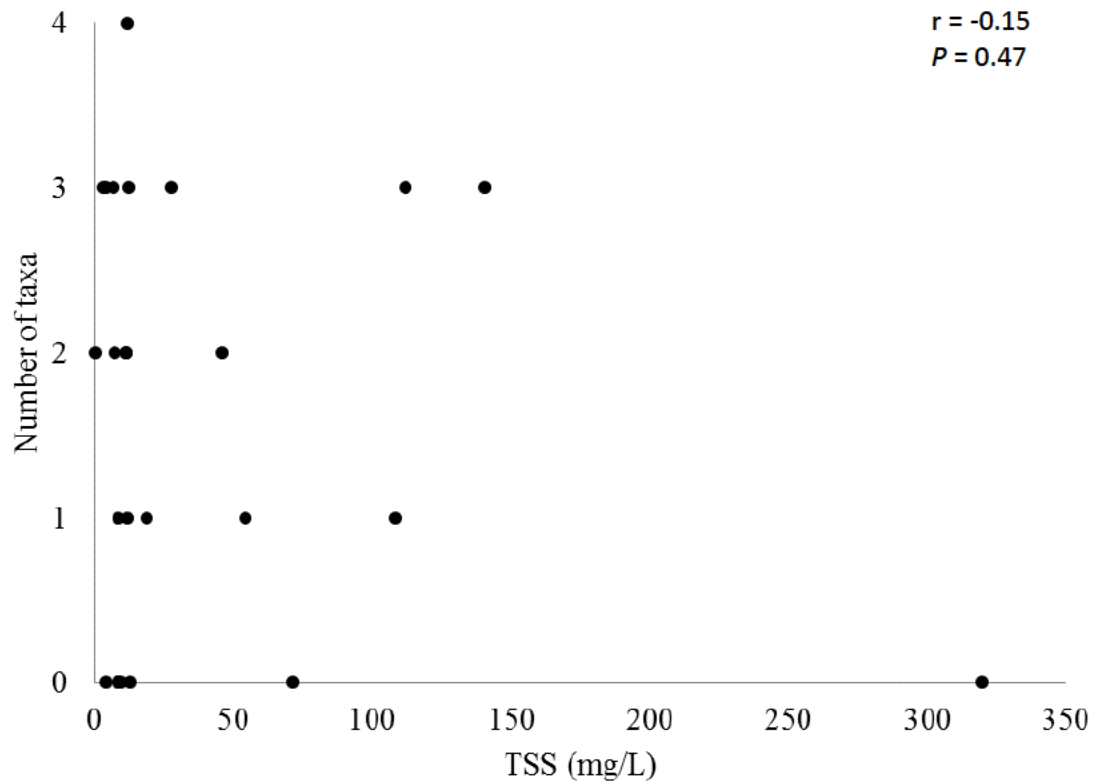
**Figure 3.2-** Macroinvertebrate taxa richness in combined dip net and core sample by month. There is no significant difference in macroinvertebrate taxa richness between sampling periods. The whiskers on the boxplot represent the range of measurements within one box length of the box, the dark black line represents the median sediment concentration from each treatment group, and the box represents the 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> quartiles for TSS concentrations. Outliers exist as open circles outside extremes of whiskers. (ANOVA:  $F=0.02$ ,  $df=48$ ,  $P=0.88$ ).



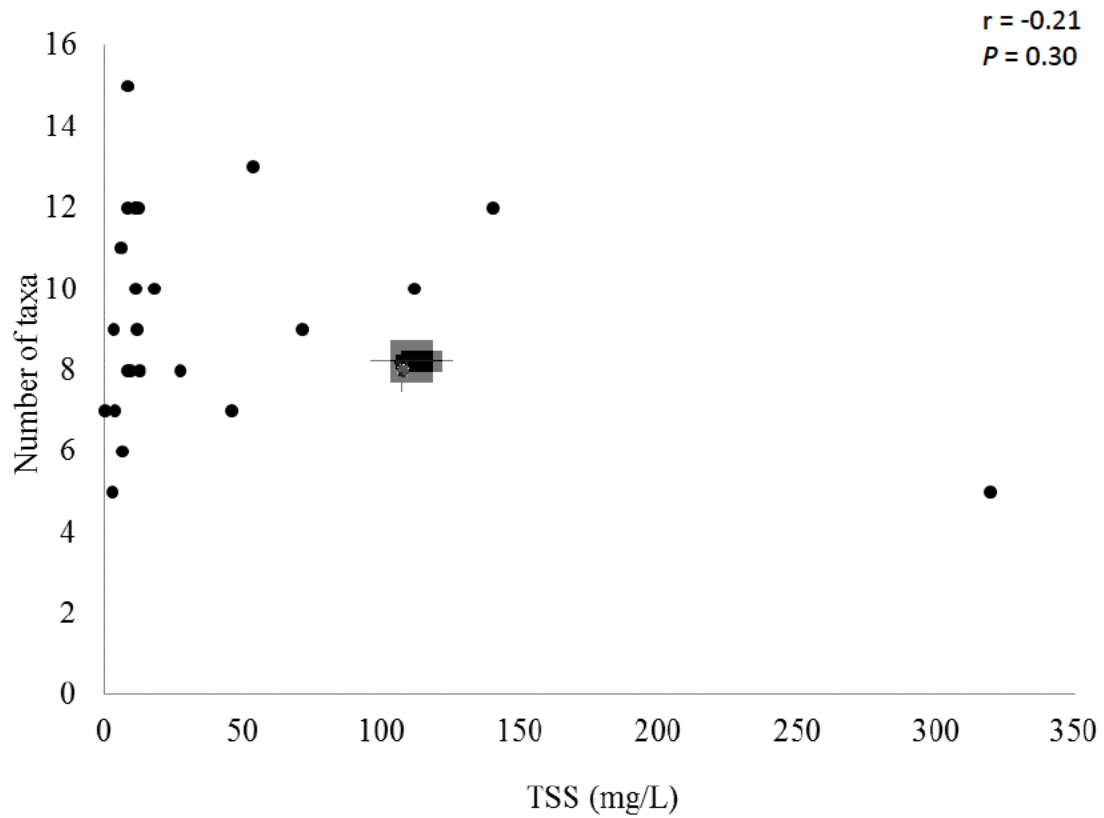
**Figure 3.3-** Relationship between macroinvertebrate abundance and total suspended sediment (TSS) in benthic core samples (Pearson correlation:  $r=-0.18$ ,  $df=23$ ,  $P=0.36$ ).



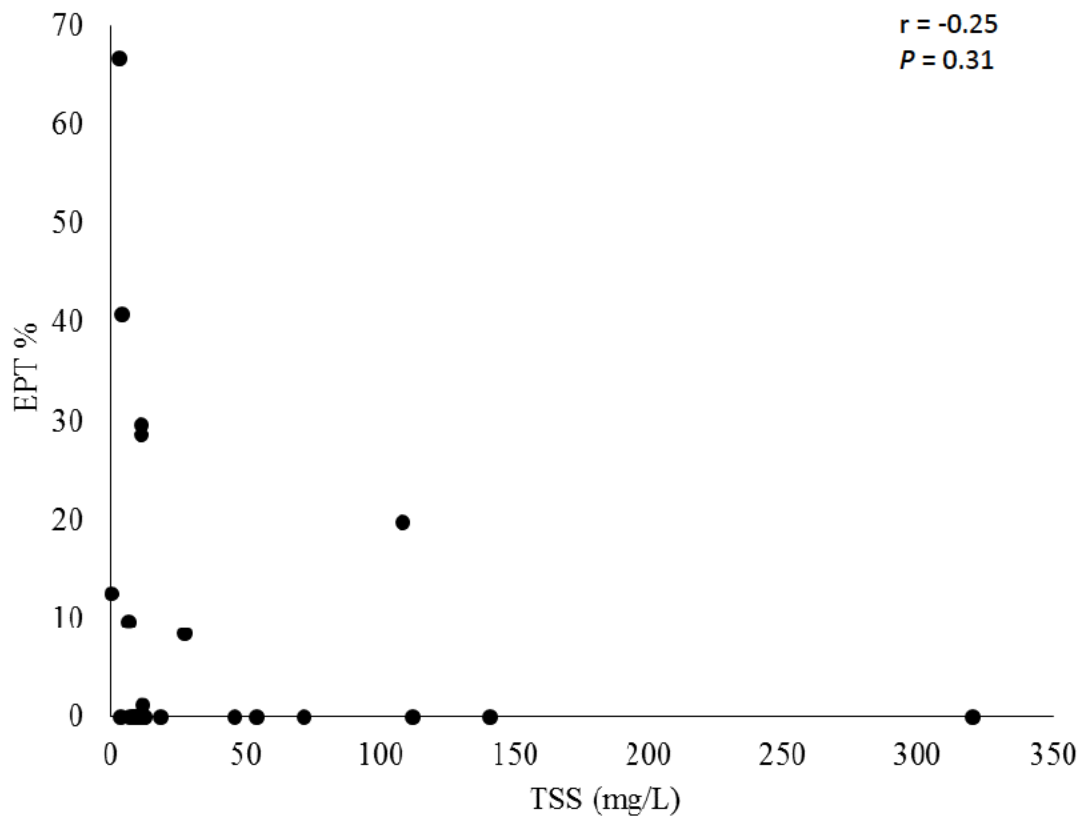
**Figure 3.4-** Relationship between macroinvertebrate abundance and total suspended sediment (TSS) in dip net samples. (Pearson correlation:  $r=-0.18$ ,  $df=23$ ,  $P=0.39$ ).



**Figure 3.5-** Relationship between macroinvertebrate taxa richness and total suspended sediment (TSS) in benthic core samples. (Pearson correlation:  $r=-0.15$ ,  $df=23$ ,  $P=0.47$ ).

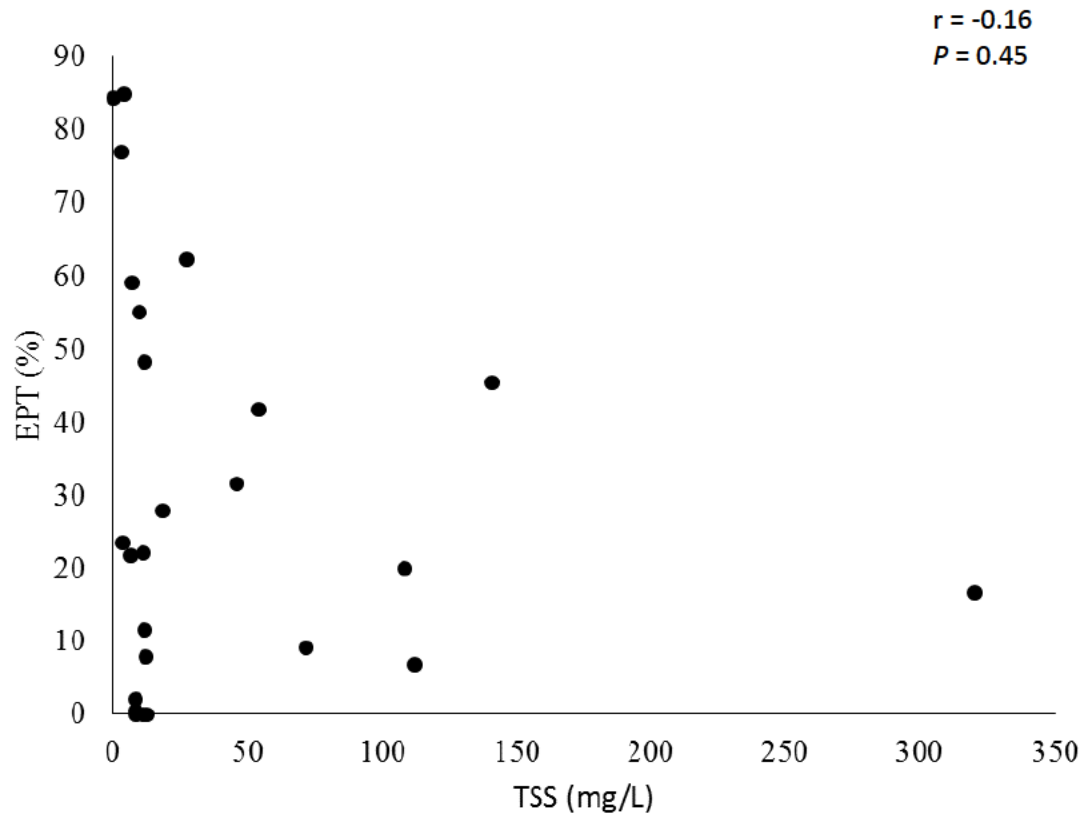


**Figure 3.6-** Relationship between macroinvertebrate taxa richness and total suspended sediment (TSS) in dip net samples. (Pearson correlation:  $r=-0.21$ ,  $df=23$ ,  $P=0.30$ ).

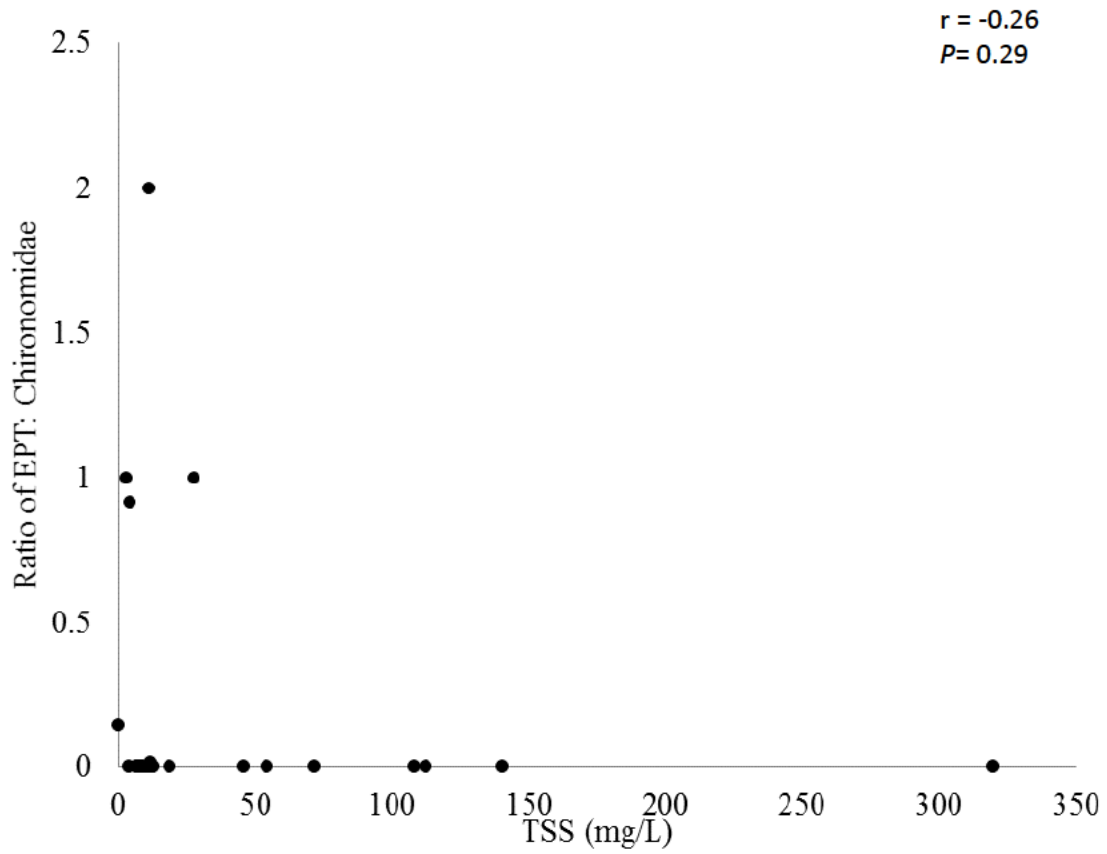


**Figure 3.7-** Relationship between percent Ephemeroptera, Plecoptera, and Trichoptera (EPT) and total suspended sediment (TSS) in benthic core samples. (Pearson correlation:  $r=-0.25$ ,  $df=17$ ,  $P=0.31$ ).

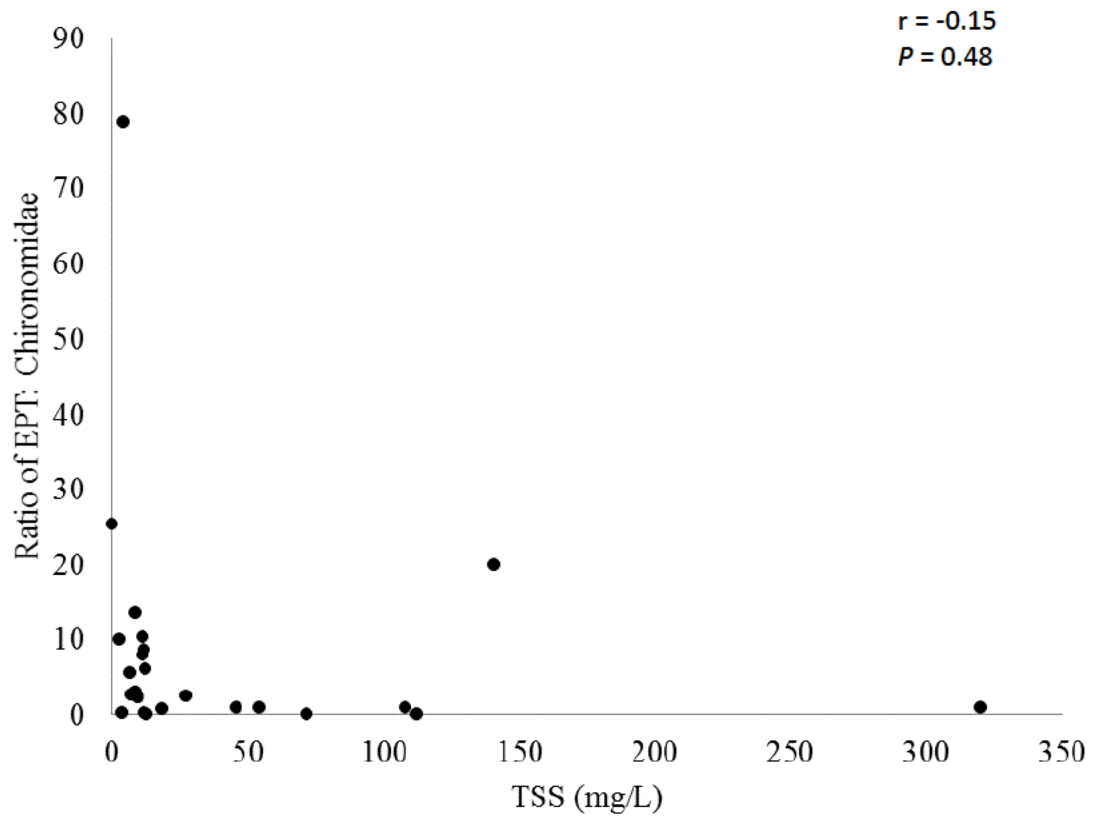




**Figure 3.8-** Correlation between percentage of Ephemeroptera, Plecoptera and Trichoptera (EPT) in samples and total suspended sediment (TSS) in dip net samples. (Pearson correlation:  $r=-0.16$ ,  $df=23$ ,  $P=0.45$ ).



**Figure 3.9-** Relationship Ephemeroptera, Plecoptera and Trichoptera /Chironomidae (C) and total suspended sediment (TSS) in benthic core samples. Higher ratios indicate a higher number of pollution sensitive taxa which suggests low pollution (Pearson correlation:  $r=-0.26$ ,  $df=16$ ,  $P=0.29$ ).



**Figure 3.10- Relationship** between Ephemeroptera, Plecoptera, and Trichoptera/ Chironomidae (C) and total suspended sediment (TSS) in dip net samples (Pearson correlation:  $r=-0.15$ ,  $df=23$ ,  $P=0.48$ ).

**Table 3.1-** Numbers and percentages of macroinvertebrate taxa in benthic core samples.

Order	Family	<i>N</i>	% of samples
Coleoptera	Dytiscidae	4	1.62
	Haliplidae	1	0.40
Diptera	Ceratopogonidae	2	0.81
	Chironomidae	175	70.85
Ephemeroptera	Baetidae	5	2.02
	Caenidae	1	0.40
	Leptohyphidae	14	5.67
Gastropoda	Physidae	14	5.67
Odonata	Libellulidae	1	0.40
Oligochaeta		28	11.33
Trichoptera	Limnephilidae	1	0.40
	Rhyacophilidae	1	0.40

**Table 3.2-** Numbers and percentages of macroinvertebrate taxa in dip net samples.

Order	Family	<i>N</i>	% of samples
Acariformes	Hydrachnidae	20	0.66
Cladocera	Daphniidae	804	26.69
Coleoptera	Dytiscidae	87	2.89
	Elmidae	1	0.03
	Haliplidae	36	1.20
	Hydrophilidae	15	0.50
Diptera	Ceratopogonidae	7	0.23
	Chironomidae	602	19.99
	Culicidae	71	2.36
	Simuliidae	1	0.03
	Stratiomyidae	4	0.13
	Tabanidae	2	0.07
	Tipulidae	2	0.07
Ephemeroptera	Baetidae	584	19.39
	Caenidae	116	3.85
	Leptohyphidae	169	5.61
Gastropoda	Physidae	56	1.86
	Planorbidae	28	0.93
Hemiptera	Belostomatidae	26	0.86
	Naucoridae	23	0.76
	Nepidae	4	0.13
	Notonectidae	14	0.46
Heteroptera	Veliidae	7	0.23
Hirudinea		1	0.03
Lepidoptera	Pyralidae	1	0.03
Neuroptera	Sisyridae	2	0.06
Odonata	Lestidae	7	0.23

	Coenagrionidae	217	7.20
	Libellulidae	30	1.00
Oligochaeta		32	1.06
Ostracoda		39	1.29
Trichoptera	Limnephilidae	4	0.13

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From:

(b) (6), (b) (7)(C)

To:

Cc:

Bcc:

Subject: RE: ENV Branch Call

Date: Fri Jan 29 2016 10:49:26 EST

Attachments:

(b) (6), (b) (7)(C) and (b) (6), (b) (7)(C) - Are you able call in?

All times listed are in the following time zone:(UTC-08:00) Pacific Time (US & Canada)

-----Original Appointment-----

From: (b) (6), (b) (7)(C)

Sent: 1/28/2016 5:34:05 PM

To: (b) (6), (b) (7)(C)

Subject: ENV Branch Call

Where: Call In: 1 (b) (6), (b) (7)(C), Pin: (b) (6), (b) (7)(C)

\*~\*~\*~\*~\*~\*~\*~\*~\*~\*

From:

(b) (6), (b) (7)(C)

To:

Cc:

Bcc:

Subject: Canceled: Bi-Weekly ENV Branch/EED Review Call

Date: Fri Jan 22 2016 17:26:02 EST

Attachments: Env Status - Facilities and TI Projects.xls

All,

Our biweekly meeting scheduled for Monday, January 25th has been cancelled. Our next meeting is scheduled for February 8, 2016.

Please remember that you still need to update the project spreadsheet.

SharePoint link:

(b) (7)(E)

Attached is also a copy of the report in case you don't have access to SharePoint.

<<Env Status - Facilities and TI Projects.xls>>

(b) (6), (b) (7)(C)

Data Analyst

Dos Logistics, Inc.

Border Patrol Facilities and Tactical Infrastructure

Program Management Office

Facilities Management and Engineering

Office: (b) (6), (b) (7)(C) | Mobile: (b) (6), (b) (7)(C)

Excel as a trusted strategic partner enhancing Border Patrol's proud legacy.

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
Facilities			2013 EPCRA Reporting		Exploring methods to ensure facilities comply with EPCRA 312 reporting requirements by March 1, 2013.	Awaiting final submittal of forms by sectors to SERCs, LEPCs, fire departments, and PMO in April.	(b) (6), (b) (7)(C)	3/10/14
Facilities			Tucson Master Plan		Submitted comments to (b) (6), (b) (7)(C) on the Statement of Work and environmental questionnaire to develop the Tucson sector master plan.	Comments submitted 1/30/2013. Next step: Participate as sustainability sme in the development of the master plan.	(b) (6), (b) (7)(C)	3/18/13
Facilities	TCA	Multiple	Environmental Compliance Support		All facility visits conducted, awaiting final report.	Final report received, deficiencies closed in TRIRIGA, one follow-up visit still pending.	(b) (6), (b) (7)(C)	7/13/15
Facilities			(b) (7)(E) Design Build		Design kickoff meeting is scheduled for February 27 - 28, 2013.	Participated in Design and Partnering Session. Design meetings should begin in the coming weeks.	(b) (6), (b) (7)(C)	3/18/13
Facilities			(b) (7)(E) Master Plan and Design-Build Projects		Review all design-build award documents in preparation for the meeting.	Design meetings are held every Wednesday from 10am to noon EST	(b) (6), (b) (7)(C)	3/18/13
Facilities			(b) (7)(E) and (b) (7)(E) Solar Project		The decision was made to install ground based solar PVs at (b) (6), (b) (7)(C) FOB and HVAC at (b) (7)(E)(b) (7)(E) DHS performed an assessment of (b) (6), (b) (7)(C) FOB in January, 2013 and is scheduled for a follow-up visit in this month.	It appears the DHS has selected Tier II compliant generators and will install solar panels.	(b) (6), (b) (7)(C)	3/18/13
Facilities	Multiple		Firing Ranges		Contracts to perform maintenance at 5 locations are awarded. Field work has begun	There are now 5 contract packages as follows: (1) DRT (b) (7)(E) and (b) (7)(E) (2) LRT TCA (b) (7)(E) and (b) (7)(E) (b) (7)(E); (3) BBT (b) (7)(E) (4) EPT (b) (7)(E) (5) (b) (7)(E). Anticipate all field work to begin early 2016 and final reports to be completed by Summer 2016. CBP legal and EED approved a Memo for the file to document our NHPA compliance using the Air Force (b) (7)(E) NHPA PA.	(b) (6), (b) (7)(C)(b) (6), (b) (7)(C)	1/12/16
<b>PROJECTS</b>								
Facilities	TCA, EPT		Environmental Compliance Support		Project just awarded.	Will provide compliance support to facilities in TCA and EPT throughout the compliance tasker process (see line 25).	(b) (6), (b) (7)(C)	6/15/15
<b>CURRENT INITIATIVES</b>								
Facilities	Multiple		FY15 Compliance Deficiency Tasker		Tasker to resolve outstanding compliance deficiencies	Tasker issued. Due 9/1.	(b) (6), (b) (7)(C)	7/13/15

FME#	In FITT?	Env Action Initiated?	Env Action Title

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME
Facilities	BUN	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) BPS - new station	EA	Final EA routed for signature	Finalize EA and Route FONSI for USAF and CBP signature	(b) (6), (b) (7)(C)
Facilities	BUN	(b) (7)(E)	(b) (7)(E)	Facility Modification	CATEX	SHPO consultation initiated 7/14/15. Finding of No Adverse Effect issued 7/23/15. CATEX pending.	Draft and finalize CATEX.	(b) (6), (b) (7)(C)
Facilities	BUN	(b) (7)(E)	(b) (7)(E)	Facility Modification	CATEX	SHPO consultation initiated 7/14/15. Finding of No Adverse Effect issued 7/23/15. CATEX completed and executed 8/13/15.	Environmental work complete. No further action required. Construction scheduled for Spring 2016.	(b) (6), (b) (7)(C)



Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
12/11/15	(b) (7)(E)	Yes	Yes	Environmental Assessment		
7/27/15		No	No	(b) (7)(E) BPS Porch and Siding Replacement		
9/30/15		No	No	(b) (7)(E) BPS Porch and Siding Replacement.		

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)
TI	DRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Cane Veg Removal	CATEX, FWS	FWS letter provided to FWS on 2/28/14 Followed up with FWS on 3/10/14 Sent SHPO LTR on 3/11/14	CATEX completed 5/7/14 – Provided to PM/COR. FWS consultation resulted in requirement to leave a narrow connectivity corridor, currently working with Sector on identifying area to conserve per FWS consult. (b) (7)(E) to visit project site September 3 & 4, 2014 to discuss corridor with PM/COR. [Confirmed with PM/COR that conservation connectivity corridor will be maintained directly along the (b) (7)(E) Cane in the conservation corridor (b) (7)(E)	(b) (6), (b)	12/14/15					
TI	DRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Veg Clearing	CATEX, FWS	Wait on response from FWS on (b) (7)(E) veg removal and then follow up with FWS on (b) (7)(E) request. (b) (7)(E) project is higher priority than (b) (7)(E)		(b) (6), (b)	12/14/15					
TI	DRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E)	CATEX, 106	Visited (b) (7)(E) 1st week of April	(b) (7)(E) existing roads on the (b) (7)(E) where ENV cleared in December 2015, FITT has been updated.	(b) (6), (b)	12/14/15					
TI	DRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E)	CATEX, 106	Visited (b) (7)(E) 1st week of April	Received requirements from Baker GIS team in early May 2015. Need to issue cultural WO to review roads.  Estimate received, waiting on confirmation from DRT TI PM/COR that landowners will allow for survey. Permission from landowner to conduct Cultural surveys on the (b) (7)(E) could not be obtained at this time. The original cultural survey WO included requirements for the (b) (7)(E) – he work for the (b) (7)(E) was complete in 4th quarter of CY2015, work for the (b) (7)(E) has not yet occurred.	(b) (6), (b)	12/14/15					

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)
FAC	DRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Checkpoint Expansion	EA	(b) (5), (b) (6) participated in telecon the week of Jan 20th to discuss requirements for checkpoint expansion. (b) (5)	Draft EA is currently on public review through July 29. Final EA routing package to be circulated this week (8/10) for OBP/EED Signature EA and FONSI has been completed. This project is ENV green.	(b) (5), (b) (6)	12/14/15					
TI	DRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) - New TIMR requirements	TIMR EA or Exis ing CATEX	Baker GIS forwarded a new requirement for clearance known as (b) (7)(E). This road appears to (b) (7)(E) he vicinity of he (b) (7)(E) If the road is on he (b) (7)(E) is ENV clear via existing CATEX, if road is (b) (5)	Waiting for confirmation from Baker on who submitted the requirement and when? Wai ing on clarificaion from RE regarding whether the road is on the (b) (7)(E) or is on (b) (5)	(b) (5), (b) (6)	12/14/15					
FAC	DRT	(b) (7)(E)	(b) (7)(E)	Renovate (b) (7)(E) (b) (7)(E)	CATEX/REC or EA	Received PRD week of July 6 h. PRD call to be held 7/15/15 Work Order for EA and Phase 1 approved 11/27/15	Waiting on ROE-S in order to proceed with ENV survey work	(b) (5), (b) (6)	12/14/15					
FAC	DRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) - Demolish Modulars	CATEX/REC	Received requirements from PM on 7/10/15. Project also includes the construc ion of a new processing office which was received by PM on 12/1/15.	SHPO letter sent on 12/2/2015	(b) (5), (b) (6)	12/14/15					
FAC	DRT	(b) (7)(E)	(b) (7)(E)	Disposal of Old station and Checkpoint	CATEX/106/Due Diligence	Work order issued for phase 1 ESA of old (b) (7)(E) BPS and checkpoint. Final phase 1 ESA was compelted and delivered by HDR. Section 106 coordiantion in iated on 12/1/2015.	Complete 106 and then finalize CATEX	(b) (5), (b) (6)	12/14/15					

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)
FAC	DRT	(b) (7)(E)	(b) (7)(E)	Install Emergency Generator	CATEX/106	NEPA and 106 have been completed		(b) (6), (b) (7)(C)	12/14/15					
TI	DRT	(b) (7)(E)	(b) (7)(E)	TIMR - Maintain road and Boat Ramp for (b) (7)(E)	CATEX/106	(b) (6), (b) (7)(C) visited the road and boatramp with station personell and TI PM/COR in November of 2015. Waiting for requirments to be trimmed and routed through FITT for clearance.		(b) (6), (b) (7)(C)	12/14/15					
(b) (7)(E)	DRT	(b) (7)(E)		New site	CATEX/SHPO/Trie	draft catex prepared, sent SHPO and tribe	waiting on SHPO due 01/07/16	(b) (6), (b) (7)(C)	12/14/15					

Project Completed ? (Y/N)

<b>Project Completed ? (Y/N)</b>



<b>Project Completed ? (Y/N)</b>

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items
Facilities	DTM	(b) (7)(E)	(b) (7)(E)	Detroit Sector - Master Plan	Master Plan	Weighing alternatives now.	
				(b) (7)(E) BPS	SEA	(b) (5) for station.	Work with design team to evaluate potential. No alternative energy will be completed for this project. No further action.
Facilities	DTM	(b) (7)(E)		GSA leased property where we are adding parking and upgrades to the building.	REC	Were unable to find GSA EA for station construction. Are proceeding with NEPA coverage for current undertakings.	Cultural and ecological work awarded

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items
FAC	DTM	(b) (7)(E)	(b) (7)(E)	Sector HQ MCA	CATEX, SHPO	Repape lighting, repair sidewalks, remove asbestos, install (b) (7)(E)	<p>(b) (6), (b) (7)(C) received PRD on 4/24/14. Held intial discussions with Sector Facility Manager (b) (6), (b) (7)(C) on work</p> <p>Reached out to (b) (7)(E) and obtained a copy of the (b) (7)(E) Integrated Cultural Resource Plan. Plan indicated that DTM SHQ is a (b) (7)(E) a (b) (7)(E)</p> <p>Next step is for (b) (6), (b) (7)(C) to submit (b) (7)(E) initiation form--following receipt of the form, (b) (7)(E) ENV staff will provide recommendations on environmetnal clearance requirements to include whether we can utilize thier existing Section 106 PA</p> <p>(b) (6), (b) (7)(C) requires re-engagement with PM (8/10/15), prior to (b) (6), (b) (7)(C) departure she had requested that we place this on hold pending her notification to (b) (7)(E) regarding proposed scope of work.</p>

**Environmental Status - Facilities and TI Projects**

<b>Program Office Lead</b>	<b>Sector</b>	<b>Station</b>	<b>City</b>	<b>Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)</b>	<b>NEPA Action / Other Compliance</b>	<b>Status</b>	<b>Next Steps / Action Items</b>
Facilities	DTM	BPSHQ	Detroit	Stormwater Investigation	Stormwater	Sector requested investigation of large amounts of standing water, lack of drainage at the facility	Survey completed, remote camera investigation of sanitary sewers to follow.

ENV SME	Date Updated	FME#	In FITT?	Env Action Initated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
(b) (6), (b) (7)(C)	4/1/13		No - Supposed to be in the next month	N/A - We are not doing separate env like NEPA for this planning.			
(b) (6), (b) (7)(C)	10/28/13		Yes	Yes			
(b) (6), (b) (7)(C)	6/29/12		No				

ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
(b) (6), (b) (7)(C)	8/10/15						

<b>ENV SME</b>	<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initiated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
(b) (6), (b) (7)(C)	7/13/15						



Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title
TI	EPT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) drainage repair and replace legacy fence	EA/106/WUS	Work Order for EA, Cultural Survey, Bio, WUS awarded to Northland on May 20.  Cultural Surveys executed May 27	Kick-off meeting tentatively scheduled for June 2  Bio/WUS surveys to occur first week of June  Received EED comments on 7/10/15  Draft EA will be submitted for web-posting on 7/14/15. Public Review begins July 20, 2015.  EA/FONSI completed. This project is ENV Green.	(b) (6), (b) (7)(E)	12/14/15	(b) (7)(E)	Yes	No, this is a study only effort at this point...once it transitions to an actual TI construction project, ENV action will be initiated.	
TI/M&R	EPT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Crossing [MILCON]	CATEX/404	Project involves using military construction to re-establish a crossing over an irrigat on canal (b) (7)(E). SOW calls for installing culvert in the irrigation canal, and installing gate to block public access or crossing.  (b) (6), (b) (7)(E) reviewed USACE design drawings the week of Feb 16, 2015	(b) (6), (b) (7)(E) provided comments on PRD 12/8/11...EED has reviewed and approved 106 coordination letters for dissemination to SHPO on March 22.  (b) (6), (b) (7)(E) visited site week of April 16th, straightforward project with minimal impact. No effect to listed species.  CATEX has been finalized and distributed to PM  Issued WO to Northland in early September to conduct phase 1 ESAs of RE requirements...Also ordered cultural survey of access road--Waiting on ROE-SE.	(b) (6), (b) (7)(E)	12/14/15	(b) (7)(E)	Yes	Yes	EPT (b) (7)(E) [MILCON]
TIMR	EPT	(b) (7)(E)	TIMR	TIMR	EA	IAA between CBP and NM (b) (7)(E) for cost recovery executed in September 2014  Revised EA/BA provided to (b) (7)(E) for review and comment on September 19, 2014--(b) (7)(E) agreed on a one month review period.  (b) (6), (b) (7)(E) held telecon with (b) (7)(E) on 12/12/14 to discuss (b) (5), (b) (7)(E), (b) (6), (b) (7)(E)  NM TIMR began public review on March 16, 2015  Final EA to be routed for signature in Early June 2015. EA has been signed by OBP - Currently Pending FME Signature.  NM (b) (7)(E) is drafting thier own FONSI off of CBP EA (Update from (b) (7)(E) on 8/6/15), (b) (7)(E) will post EA and FONSI on (b) (7)(E) website for 30 days and then will sign (b) (7)(E) FONSI. This action was completed, minimal comments received.	Amended ROW application and revised EA/BA submitted to (b) (7)(E) on 12/20/13  Revised Cooperating Agency MOU sent to (b) (7)(E) on 8/20/12. Discussed with (b) (7)(E) the desire to have executed MOA by 8/31.  DOI HQ (b) (6), (b) (7)(C) requested in-person meeting at (b) (7)(E) office in Las Cruces on 9/25.. (b) (7)(E) employees reached out to (b) (6), (b) (7)(E) to request smaller sess on in advance of large CBP/DOI HQ meeting. Smaller meeting to occur 9/5 in Las Cruces--(b) (6), (b) (7)(E) and EPT PLLA to attend.  9/25/12 meeting went well.. (b) (7)(E) will approve work via ROW (b) (5)  Many action items resulted from meeting which are being tracked separately to this spreadsheet.  Received (b) (7)(E) lawyer comments on cooperating agency MOU and will revise and finalize MOU the week of 10/30/12  (b) (5), (b) (7)(E), (b) (6), (b) (7)(C)	(b) (6), (b) (7)(E)	12/14/15				

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title
	EPT	(b) (7)(E)	(b) (7)(E)	Mowing & Maintenance OAS		Participate in call with USIBWC on 7/9/13 to discuss finalizing IAA to support mowing.  IAA's to be executed after the start of FY14  (b) (6), (b) (7)(E) participated in internal call on (b) (7)(E) mowing IAA on 10/25/13  Need to determine who has lead on this act on given (b) (6), (b) (7)(E) retirement	Participated in call on 7/19 with IBWC..IBWC indicated on the call that they are open to BPFTI using TIMR contractor to complete required Mowing--very good news for BPFTI. (b) (6), (b) (7)(E) to work with Sector PMO and PM/COR to create shapefiles to provide to IBWC identifying priority mowing areas. IBWC to provide (b) (6), (b) (7)(E) with shapefiles identifying city of (b) (7)(E) designated "no mow" zones. Work to be coordinated through (b) (7)(E) Mowing MOA.  Similar to mowing, IBWC has agreed in principal to allow BPFTI to maintain (b) (7)(E) road with TIMR contractor. (b) (6), (b) (7)(E) to produce CATEX to clear M&R of (b) (7)(E) road, simple CATEX involves blading of (b) (7)(E)  BPFTI delegation heading to USIBWC headquarters in El Paso in February 2015 to hammer out MOU/MOAs	(b) (6), (b) (7)(E)	12/14/15				
	EPT	(b) (7)(E)	(b) (7)(E)	- Support relocation due to (b) (7)(E) project	CATEX	(b) (6), (b) (7)(E) reviewed PRD 5/14/14  Team call to review PRD with RE and OCC was requested by (b) (6), (b) (7)(E) the last week of May 2015	(b) (6), (b) (7)(E) to get additional info from TMRP and get TXDOT ENV POC to see what coordination has been completed to date.  TXDOT contacted EED cultural specialist in late August to discuss the scope of the project and weather it includes the relocation of several light poles on IBWC lands. (b) (6), (b) (7)(E) followed up with	(b) (6), (b) (7)(E)	12/14/15				
FAC	EPT	(b) (7)(E)	(b) (7)(E)	Firing Range Study	CATEX	Reviewed PRD for firing range study at (b) (7)(E) Range. Study will look at what upgrades are required to make (b) (7)(E) range functional and will also assess other options that may be available to support EPT range needs (i.e. look at private vendors).		(b) (6), (b) (7)(E)	12/14/15				
(b) (7)(E)	EPT	(b) (7)(E)	(b) (7)(E)	MOU and POAM	Research	MOU may expire. Prepared POAM.	Start on actions in 2016.	(b) (6), (b) (7)(E)	12/14/15				
FAC	EPT	(b) (7)(E)	(b) (7)(E)	replace Firing Range Floor	CATEX/106	SHPO consult routed early December 2015		(b) (6), (b) (7)(E)	12/14/15				
FAC	EPT	Various	(b) (7)(E)	received SOWs for 17 MCAs to be completed via CBP procurement. Projects range from roof replacement, vehicle lift replacement at even facilities, exterior building repairs, interior building repairs	CATEX/ SW PA	(b) (6), (b) (7)(E) completed CATEXs for MCAs that will be covered by SW PA and loaded them to FITT in early December 2015. (b) (6), (b) (7)(E) will route CATEXs for signature this week.		(b) (6), (b) (7)(E)	12/14/15				
FAC	EPT	Sector HQ	(b) (7)(E)	replace Rooftop HVAC	CATEX/106	EED indicated that project could not proceed under SW PA. As such consultation with SHPO was initiated in November 2015 and has been completed.	CATEX and 106 have been completed.	(b) (6), (b) (7)(E)	12/14/15				

<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>

<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME
FAC	GFN	(b) (7)(E)	(b) (7)(E)	Clean up indoor firing range	NEPA, RCRA	Received requirements on 6/26/14	<p>(b) (5)</p> <p>Reviewed GSA SOW for Indoor Firing Range investigation, provided feedback to CBP PM.</p> <p>BPFTI received report from industrial hygenist the first week of April 2015, currently under review by (b) (6), (b) (7)(C)</p> <p>Recieved updated lead report the last week of June 15, (b) (6), (b) (7)(C) provided comments in early July.</p>	(b) (6), (b) (7)(C)

Date Updated	FME#	In FITT?	Env Action Initated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
12/14/15	(b) (7)(E)					

**Environmental Status - Facilities and TI Projects**

<b>Program Office Lead</b>	<b>Sector</b>	<b>Station</b>	<b>City</b>	<b>Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)</b>	<b>NEPA Action / Other Compliance</b>	<b>Status</b>	<b>Next Steps / Action Items</b>	<b>ENV SME</b>	<b>Date Updated</b>
(b) (7)(E)	HVM			(b) (7)(E) Site	CatE s	received notice from BP that site was no longer acceptable with (b) (7)(E) BP to set up follow up call to determine new site location; SOW cancelled	complete ENV clearance for site location once selected	(b) (6), (b) (7)(C) (b) (6), (b) (7)(C)	6/1/15
Facilities	HVM	(b) (7)(E)		(b) (7)(E) BPS Lease Termination	CATEX	Project information received. Preparing CATEX and Site Summary Report.		(b) (6), (b) (7)(C)	6/2/14



<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initiated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
	Yes	Yes			

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME
(b) (7)(E)	HLT	All	Many	Helo Sites w some new build, some improvements	CATEX and/or EA/SHPO/arch surveys/Bio	Gathering documents for each site. Had phone w (b) (6), (b) (7)(C) Met w/ (b) (6), (b) (7)(C) to discuss SOW 031815. Spoke w/ (b) (6), (b) (7)(C) 040215	WSPD is to provide us with drawings/env info. Prepared env matrix. Continue support as needed.	(b) (6), (b) (7)(C)
(b) (7)(E)	HLT	(b) (7)(E)(b) (7)(E)	(b) (7)(E)(b) (7)(E)	CATEX and state permit	CATEX/SHPO	Working with (b) (6), (b) (7)(C) at State to complete LURC permit. Site being improved.	Look at previous permit to see what needs updated. Find out about avoidance for thrush.	(b) (6), (b) (7)(C)
(b) (7)(E)	HLT	(b) (7)(E)(b) (7)(E)	(b) (7)(E)(b) (7)(E)	CATEX for (b) (7)(E)	CATEX/SHPO	Prepared draft CATEX and sent SHPO, USFWS letters. Sent SHPO a second time.	Have USFWS concurrence. Waiting on SHPO.	(b) (6), (b) (7)(C)

<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
12/14/15						
12/14/15						
12/14/15						

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title
Cane Removal	LRT	(b) (7)(E)	(b) (7)(E)	Cane Removal Annual Report	Annual Report (5 years) USFWS accepted finding of mostly no temporal loss of habitat and "act of nature" for remaining planting failures	Contract let to GSRC (\$300K), Repairs complete, replanting complete, Revegetation analyses submitted for routing 2/24/2012 Field Sampling for Year 2 report completed May 18	Fourth Year Monitoring Report transmitted to FWS in early October 2014. Letter seeks concurrence from FWS to terminate monitoring, thus relieving CBP from the fifth and final year of monitoring.  FWS did not concur with discontinuing monitor. (b) (6), (b) (7)(E) and (b) (7)(C) held telecon with FWS on July 8, 2015 to discuss this project. FWS suggested (b) (5)	(b) (6), (b) (7)(E)	8/10/15	None	No	No	
Facilities	LRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) BPS	EA/FONSI	met with USFWS on 10/16/14 to discuss path forward, waiting for information from CBP P (b) (5)	(b) (6), (b) (7)(E) and (b) (7)(C) spoke with (b) (6), (b) (7)(E) about project. (b) (6) spoke with (b) (6), (b) (7)(C) (b) (5), (b) (6), (b) (7)(C)	(b) (6), (b) (7)(E)	12/8/14		Yes		
Cane Removal	LRT	(b) (7)(E)	(b) (7)(E)	Re-vegetation (b) (7)(E) Road Projects - Re-vegetation		irrigation system installed, plantings complete	monitor	(b) (6), (b) (7)(E)	12/11/15	None	No	No	
	LRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) (b) (7)(E) installations for maintenance and repair	REC, SHPO and (b) (7)(E) coordination required		(b) (7)(E) removed from above (b) (7)(E) action due to CR sensitivity potentially eligible for listing, but field work revealed no indications. We will file with the SHPO for no eligibility for listing and therefore no potential to affect, and no need for on-site monitoring.	(b) (6), (b) (7)(E)	12/24/13				
	LRT	(b) (7)(E)	(b) (7)(E)	MILCON road construction (b) (5) (AKA (b) (7)(E) All Weather Road)	EA/CWA/Sec 106/Sec 7	Team site visit December 17; Draft SWPPP sent to team for review; Draft EA should be submitted to CBP on 12/11/15 for internal review and approval, updates based on 90%	approve EA and prepare for public distribution	(b) (6), (b) (7)(E)	12/11/15				
TI	LRT	(b) (7)(E)	(b) (7)(E)	TIMR Roads	CATEX/CWA 404 Section 106	Complete ENV clearances under TX TIMR (b) (7)(E) (b) (7)(E) Access Road -ENV green for M&R	conduct cultural resources surveys and consultations as necessary	(b) (6), (b) (7)(E)	12/11/15				
TI	LRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Boat Ramp-Sandbar Removal	CATEX/CWA 404/ESA	received follow up questions from TPWD, workign to respond to questions	finalize ARRP and send to TPWD	(b) (6), (b) (7)(E), (b) (6), (b) (7)(E)	12/11/15				
TI	LRT	(b) (7)(E)	(b) (7)(E)	all (b) (7)(E)	CATEX	continue to coordinate with OTIA, add CATEXs to FITT as available		(b) (6), (b) (7)(E)	12/11/15		multiple RE #s		
TI	LRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) np	CATEX/CWA 404 Section 106	waiting on RE access	complet CR survey, SHPO consultation, 404 compliance, NEPA clearance	(b) (6), (b) (7)(E)	12/11/15				

Completion Date (Anticipated/ Final)	Project Completed ? (Y/N)

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)
TI	BBT	(b) (7)(E)	(b) (7)(E)	TIMR (b) (7)(E) of road M&R on (b) (7)(E)	CATEX	Received call on 4/17 from BBT PM/COR informing me that (b) (7)(E) is currently maintaining (b) (7)(E) of road within the (b) (7)(E) on a reimbursable basis via an existing IAA. Now that (b) (7)(E) Contract has been awarded, BPFTI wants to compete this road maintenance using TIMR contractor. PM setting up meeting between (b) (6), (b) (7)(C) and staff to determine environmental compliance needs to support the proposal.  Real Estate is working with PM/COR on providing a draft SUP for the (b) (7)(E) to review	(b) (6), (b) (7)(C) reached out to (b) (7)(E) ENV POC on 5/8/13 to set up call to discuss ENV planning to support request. (b) (6), (b) (7)(C) will attempt to contact (b) (7)(E) ENV POC again next week and if unsuccessfull will engage PM/COR to facilitate communications.  (b) (6), (b) (7)(C) contacted (b) (6), (b) (7)(C) from (b) (7)(E) several times over the past few weeks. Will continue to try and engage (b) (6), (b) (7)(C) for the remainder of this week and then will engage BBT Sector PM/COR for assistance in setting up a meeting.  (b) (6), (b) (7)(C) notified (b) (7)(E) PM/COR on 6/24/13 of difficulty getting call back from (b) (7)(E) ENV and suggested BPFTI set up larger meeting/telecon with (b) (7)(E) to discuss the overall effort. PM/COR concurred with advice and indicated he will set up a meeting.  (b) (7)(E) provided feedback that they do not want CBP contractor exectuing requirements on the the (b) (7)(E). As such, current understanding is that CBP will utilize CTIMR to provide materials (crushed rock) to the	(b) (6), (b) (7)(C)	8/10/15					
FAC	BBT	(b) (7)(E)		Asphalt Replacement	CATEX, 106	Received Requirements from PM first week of April '15	CATEX Complete	(b) (6), (b) (7)(C)	8/10/15					
FAC		(b) (7)(E)		Asphalt Replacement	CATEX, 106	Received Requirements from PM first week of April '15	CATEX Complete	(b) (6), (b) (7)(C)	8/10/15					
FAC	BBT	(b) (7)(E)		Dispose of old (b) (7)(E) BPS	CATEX, 106, Due Diligence	WO for phase 1 sent to LMI for an estimate  LMI completed site visit for Phase 1 in June of 2015, currently waiting for report submittal  Draft report submitted in early August 2015, (b) (6), (b) (7)(C) to review Phase 1 ESA this week.	Phase 1 ESA came back with a recognized ENV site condtion. As such, BPFTI will proceed with compelling soil removal and testing for the burn pit area recognized as environmetnal condition. GSA requested that CBP resolve issue prior to disposal. (b) (6), (b) (7)(C) is drafting a WO for the soil removal and testing and hopes to route for an estimate the week of 12/14/15.	(b) (6), (b) (7)(C)	12/14/2015					
TI	BBT	(b) (7)(E)		Maintain approxiamtely (b) (7)(E) of (b) (7)(E) access roads	CATEX, 106	(b) (6), (b) (7)(C) received SHPO concurrence on action on 6/10/15.  Notified TI PM/COR that requirement is green and covered via Texas TIMR EA		(b) (6), (b) (7)(C)	8/10/15					
(b) (7)(E)	BBT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E)	CATEX/SHPO and tribes	just starting. May have archeology in area.		(b) (6), (b) (7)(C)	11/16/15					

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)
TI	BBT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Road - TIMR	Section 106	Project includes maintenance and repair of between (b) (7)(E) of existing roads known as (b) (7)(E) and associated access road.	(b) (6), (b) (7)(C) is confirming the requirements that were routed through FITT clearance process accuratley reflect all the requirements. This is coordiation with the station and FITT GIS began in early December 2015.	(b) (6), (b) (7)(C)	12/14/15					
TI	BBT	(b) (7)(E)	(b) (7)(E)	Boat Ramps and Access Roads in (b) (7)(E) AOR - TIMR	Section 106	Project includes maintenance and repair of apprximately (b) (7)(E) boat ramps and (b) (7)(E) of maintenance and repair. (b) (6), (b) (7)(C) conducted site visit with station personell and sector TI PM/COR in November of 2015.	(b) (6), (b) (7)(C) is confirming the requirements that were routed through FITT clearance process accuratley reflect all the requirements. This is coordiation with the station and FITT GIS began in early December 2015.	(b) (6), (b) (7)(C)	12/14/15					
FAC	BBT	(b) (7)(E)	(b) (7)(E)	Lease renewal	CATEX	CATEX compelted		(b) (6), (b) (7)(C)	12/14/15					
FAC	BBT	(b) (7)(E)	(b) (7)(E)	Lease renewal	CATEX	CATEX completed		(b) (6), (b) (7)(C)	12/14/15					
FAC	BBT	(b) (7)(E)	(b) (7)(E)	Lease renewal	CATEX	CATEX compelted		(b) (6), (b) (7)(C)	12/14/15					



<b>Project Completed? (Y/N)</b>

Project Completed? (Y/N)

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
(b) (7)(E)	NLL	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) lease rooftop sites	CATEX, SHPO	Draft CATEX working. Need more info from (b) (6);(b) (7)(C)	Followup wi (b) (6);(b) (7)(C)	(b) (6), (b) (7)(C)	11/16/15
(b) (7)(E)	NLL	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) lease land	CATEX, SHPO	Draft CATEX working. Need more info from (b) (6);(b) (7)(C)	Followup wi (b) (6);(b) (7)(C)	(b) (6), (b) (7)(C)	11/16/15

<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>

**Environmental Status - Facilities and TI Projects**

<b>Program Office Lead</b>	<b>Sector</b>	<b>Station</b>	<b>City</b>	<b>Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)</b>	<b>NEPA Action / Other Compliance</b>	<b>Status</b>	<b>Next Steps / Action Items</b>	<b>ENV SME</b>	<b>Date Updated</b>

<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
Facilities	New Orleans	Sector HQ	New Orleans	Move/Consolidation of Sector HQ	GSA completing NEPA; CBP CATEX once GSA CATEX Complete	CATEX complete; need to conduct due dilligence and CATEX for parking space rental once location determined		(b) (6), (b) (7)(C)	6/9/15
Facilities	New Orleans	(b) (7)(E) BPS	(b) (7)(E)	Consolidation of CBP into GSA leased facility owned by (b) (7)(E) (b) (7)(E)	Addition of (b) (7)(E) to proposed action	REC previously prepared, need to determine if additional NEPA need for (b) (7)(E) No update yet.	Need to determine if additional NEPA need for (b) (7)(E)	(b) (6), (b) (7)(C)	1/6/2014
Facilities, Air and Marine	New Orleans	(b) (7)(E)	(b) (7)(E)	or the lease of unoccupied and un-developed land parcel adjacent to the south side of the (b) (7)(E) facility to support critical mission requirements and capabilities	CATEX/SHPO	waiting for information from PM to begin environmental clearance		(b) (6), (b) (7)(C)	8/10/2015
(b) (7)(E)	NLL	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) lease	CATEX, SHPO	Draft CATEX done, SHPO sent (no tribal). Have concurrence.	document reason for floodplain	(b) (6), (b) (7)(C)	11/16/15
(b) (7)(E)	NLL	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) lease	CATEX, SHPO	Draft CATEX done. SHPO complete	finalizing CATEX	(b) (6), (b) (7)(C)	12/14/15



FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
(b) (7)(E)					


Environmental Status - Facilities and TI Projects

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TI	RGV	(b) (7)(E)	(b) (7)(E)		(b) (7)(E)	This project was extensively discussed with IBWC the week of Feb. 9th, 2015...Construction start date is projected for August 2015. TX DOT is still working to complete EA.  NEPA/ BO renegotiation  Received PRD from USACE ENV in May of 2014, reviewed by (b) (6), (b) (7)(E) Awaiting next steps	(b) (5), (b) (7)(E)  New BO by SHA.	(b) (6), (b) (7)(E)	12/14/15		None	No	No
	RGV	(b) (7)(E)		(b) (7)(E) Border and Access Road Repairs	CATEX/ 404 - Nationwide General Permits/SHPO/Coordination with IBWC, USFWS and USDA	(b) (7)(E) Road was realigned in March of 2015  Final rotation is currently under way, last day of construction is April 17th...ENV needs funds to address Haz Waste Issue--Issue has been resolved. PCD funded.  <b>Project is complete, however need to make sure that USACE/CBP execute payment for FWS reveg/restoration. Work continues with USACE/FWS to coordinate funds transfer. (b) (6), (b) (7)(E) approved CR in FITT for funds transfer in early December 2015.</b>	Arch site located by FWS biologist the week of Jan 12th in the arroyo work area. (b) (6), (b) (7)(E) issued WO to northland who visited site on Jan 19th, 2015. Northland recommend site not eligible and (b) (6), (b) (7)(E) secured SHPO concurrence that project may proceed as planned on January 20th, 2015.  ENV monitoring contract for FY15 deployment (2 rotations) has been awarded to Northland.  Kick-off Meeting to occur at (b) (7)(E) BPS on 1/16/14  CATEX for new water filling station for FY15 has been complete	(b) (6), (b) (7)(E)	12/14/15		None	No	No
TI	RGV		RGV	(b) (7)(E)	EA	(b) (5)  GSRC has accompanied USACE site walk and looks on two weekly visits to the field.  GSRC to begin conducting full blown surveys the last week of July 2015. Site Visit Request form submitted by (b) (6), (b) (7)(E) the Second week of July 2015. First round of surveys went well, current plan is to conduct second round of ENV surveys the week of 8/17/15.	ENV funds transferred from OTIA to BPFTI PMO ENV Branch on June 9, 2014... Project kick-off meeting scheduled for (b) (5) in RGV  Received update from CBP procurement on July 24, 2014--currently anticipate award of env contract on or around (b) (5)  (b) (5)  Contract awarded September 5, 2014!!  ENV Kick-off Meeting Held 9/22/14	(b) (6), (b) (7)(E)	12/14/15				
FAC	RGV			RGV (b) (7)(E) facilities and (b) (7)(E) (b) (7)(E)	CATEX	ENV provided language for PRD which was routed late May 2014 for signature.  (b) (6), (b) (7)(E) to complete CATEX/REC by January 1, 2015. Currently in process of compiling building history and NHPA adjacencies to support effect determination for additional (b) (7)(E) (b) (7)(E)	(b) (6), (b) (7)(E) sent SHPO letters for (b) (7)(E) facilities and (b) (7)(E) (b) (7)(E) on 8/12/14  SHPO Clearance received for (b) (7)(E) and (b) (7)(E) (b) (7)(E)  CATEX completed for (b) (7)(E) (b) (7)(E) in September '14--Signed CATEX provided to PM (b) (6), (b) (7)(E)  Waiting on confirmation of (b) (7)(E) (b) (7)(E) (b) (7)(E) (based on 15% design) before executing a CATEX for (b) (7)(E) (b) (7)(E).  CATEX for (b) (7)(E) Facilities and (b) (7)(E) (b) (7)(E) completed in November 2014	(b) (6), (b) (7)(E)	12/14/15				
TI	RGV			RGV (b) (7)(E) Legacy (b) (7)(E)	CATEX	ENV provided language for PRD which was routed late May 2014 for signature.	Review existing env documents to see if legacy upgrades already have existing coverage. (b) (7)(E), (b) (5)	(b) (6), (b) (7)(E)	12/14/15				

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TI	RGV	(b)	all	TIMR Roads	CATEX/CWA 404 Section 106	Complete ENV clearances under IX TIMR EA; coordinating with USACE to determine which roads can be cleared on (b) (7)(E) under SWPA	conduct cultural resources surveys and consultations as necessary	(b) (6), (b) (7)	12/11/2015				
TI	RGV	(b) (7)(E)	all	Continue to work with OTIA to complete ENV clearance for installation, operation, and M&R of (b) (7)(E) sites and access roads. OTIA completing CATEXs and BPFTI is providing support and adding final CATEXs to FITT	CATEX	continue to coordinate with OTIA, add CATEXs to FITT as available		(b) (6), (b) (7)	12/11/2015		multiple RE #s		
TI	RGV			(b) Proposed Boat Ramps in RGV	CATEX/CWA 404 Section 106	supporting development of PRDs and conducting environmental clearance for (b) proposed boat ramps in RGV, conducting site visit with RE and Engineering		(b) (6), (b) (7)	12/11/2015				
TI	RGV	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Boat Ramp	CATEX/CWA 404 Section 106	PRD in development, Northland on contract to complete CR survey, waiting for PRD and RE access	complet CR survey, SHPO consultation, 404 compliance, NEPA clearance	(b) (6), (b) (7)	12/11/2015				
(b) (7)(E)	RGV	(b) (7)(E)		(b) (7)(E)	CATEX/Phase I/SHPO	Completed WO. Did research on land.	provide support as needed. Draft CATEX.	(b) (6), (b) (7)	12/14/15				

Completion Date (Anticipated/Final)	Project Completed? (Y/N)

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	SWB	(b) (7)(E)		SWB (b) (7)(E) New (b) (7)(E) (b) (7)(E) Design & Construction	EA, to completed by OTIA, BPFTI to support ENV clearance as needed and review draft ENV documents	PRD being routed for approval; FAA awarded EA contract to GSRC; coordinating with OITA (b) (6), (b) (7)(C) regarding support needed from BPFTI on EA reviews	review draft ENV documents developed by OTIA	(b) (6), (b) (7)(C)

<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initiated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
11/16/15						



NO	Facility Name	State	Year	Category	Priority	Status	Comments	Agency	Region	Other
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TI	ELC			(b) (7)(E) Road Maintenance and Repair (includes (b) (7)(E) access road)	EA	Phase (b) (7)(E) complete. SOW for Phase (b) (7)(E) monitoring sent to Northland.	(b) (5), (b) (7)(E)	(b) (6), (b) (7)(C)	12/14/15
TI	ELC			(b) (7)(E) Maintenance and Repair	REC	(b) (7)(E) requested special attention to this non-owned operational road. Discussed with (b) (7)(E) on June 3. (b) (7)(E), (b) (5) working real estate with Caltrans.	(b) (7)(E) supports this project and restoration of the impact areas outside of the roadway.	(b) (6), (b) (7)(C)	7/27/15
TI	ELC			(b) (7)(E) Barrier Maintenance and Vegetation Management	CATEX	Surveys complete. CATEX complete. Information entered into EPIIF.	Implement BMPs in CATEX.	(b) (6), (b) (7)(C)	12/14/15
TI	ELC			(b) (7)(E) Vegetation Management	EA	Request received for vegetation removal along (b) (7)(E) north of the border. Requirement not in FITT. EA needed due to known occurrence of and suitable habitat for (b) (7)(E) rail.	Await further instructions from OBP.	(b) (6), (b) (7)(C)	11/16/15

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Facilities	ELC			(b) (7)(E) BPS UST Removal	CATEX	USTs removed. Closure report submitted to DTSC and EPA. Prepared SOW for additional site remediation measures. Working with RE to get LMI subcontractor access to the site.	Awaiting estimates from Contractors.	(b) (6), (b) (7)(C)	6/15/15
Facilities	ELC/Yuma	(b) (7)(E)	Multiple	CATEX needed	CATEX	on hold	participate in meetings as needed	(b) (6), (b) (7)(C)	11/16/15

FME#	In FITT?	Env Action Initated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
(b) (7)(E)	Yes	Yes	EA (b) (7)(E) (b) (7)(E) AWR Construction	12/31/2016	No
	No	No		12/31/2016	No
	Yes	No			
	No	No			

<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
	No	No		3/15/2016	No

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Facilities	SDC	(b) (7)(E)		(b) (7)(E) Checkpoint Mitigation	EA/FONSI	NNIS removal mitigation and puncture vine removal ongoing. Another round of treatment completed in late September.	Incorporate puncture vine removal and eradication program into checkpoint landscaping contract or lease. Discuss SOW and path forward with CDFW and FWS.	(b) (6), (b) (7)(C)	11/16/15
Facilities	SDC	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) BPS	N/A	On-going UST cleanup	SVE and air sparge system installed. Additional GW wells installed off site for free product delineation. System operational since Oct. 2011. Ongoing GW monitoring and AS/SVE report reviews. Prepared EFL. VI report reviewed and requested changes (conf call 10/08/14). Reviewed revised VI report (DD 11/25/14). Additional VI report revisions were made. Conference call for VI 012215. Ctr making edits.	(b) (6), (b) (7)(C)	02/29/15
Facilities	SDC	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Checkpoint Upgrade (b) (7)(E)	EA/FONSI	Construction expected to begin in (b) (5).	Implement BMPs in EA and FONSI.	(b) (6), (b) (7)(C)	11/16/15
Facilities	SDC	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Checkpoint (b) (7)(E) Road and Interim Checkpoint (b) (7)(E)	REC	Consultation letter sent to USFWS; expecting response soon.	Complete REC for (b) (7)(E) road and temporary checkpoint.	(b) (6), (b) (7)(C)	11/16/15

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
TI	SDC			Gapfiller	SWPPP, SPCCP, and Re-vegetation Plan	401/404 permit applications submitted. 401 Certification held up due to CEQA consistency issues -- need CEQA addendum. 404 permit delayed with request for additional information. Got authorization and registered for data entry role in SMART.	Send permit checklist to TIMR for completion. Enter project information in SMART. Contract QSP to complete SWPPP and monitor SWPPP implementation during work.	(b) (6), (b) (7)(C)	2/18/14
TI	SDC			(b) (7)(E) Re-vegetation effort	Re-vegetation Plan	Year 4 maintenance ongoing. Monitoring conducted in early June. Monitoring report received and under review.	Work with (b) (6), (b) (7)(C) to remove equipment and material from temporary staging area and prepare it for revegetation.	(b) (6), (b) (7)(C)	9/21/15
TI	SDC			(b) (7)(E) Vegetation Management Plan	Re-vegetation Plan	Year 5 maintenance ongoing. Monitoring conducted in early June. Monitoring report received and under review.	Continue Year 5 maintenance and monitoring.	(b) (6), (b) (7)(C)	9/21/15
TI	SDC			(b) (7)(E) Real Estate Disposal	Phase 1 ESA and CATEX	Working with PMO Real Estate to transfer property through GSA. Sent letter documenting completion of wetland mitigation at (b) (7)(E) to Corps LA District. USFWS expressed interest in helping to transfer both properties.	(b) (6), (b) (7)(C) taking lead on GSA excess.	(b) (6), (b) (7)(C)	1/6/14



Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
TI	SDC			(b) (7)(E) - JTF FY11 Project	ESP	Year 3 maintenance ongoing. Monitoring report received and under review.	Continue Year 3 maintenance and monitoring.	(b) (6), (b) (7)(C)	9/21/15
Other	SDC			Brand's Phacelia Annual Inventory	?	RECON completed Year 2 weed removal and monitoring. Survey complete. Final report submitted to USFWS. Annual meeting with working group held in October.	Implement Year 3 weed removal and monitoring.	(b) (6), (b) (7)(C)	11/16/15
TI	SDC			(b) (7)(E) (b) (7)(E) Brush Clearing	MFR/ESP	Request received for additional vegetation removal. Requirement not in FITT.	Prepare MFR for additional vegetation removal as necessary.	(b) (6), (b) (7)(C)	2/2/15
TI	SDC			(b) (7)(E) Trail Maintenance	CATEX	USFWS concurrence received. Finalizing CATEX.	Enter information into EPIIF.	(b) (6), (b) (7)(C)	12/14/15
TI	SDC			(b) (7)(E) Road Maintenance	EA/FONSI	Request made by SDC for maintenance up to and potentially including wilderness. Support from the (b) (7)(E), USFWS, and CDFW. Requested input from (b) (6), (b) (7)(C)	Confirm TIMR requirement status. Send work order to Northland for estimate and begin scoping process.	(b) (6), (b) (7)(C)	4/14/14
TI	SDC	(b) (7)(E)		(b) (7)(E) Vegetation Control	EA/FONSI	Preliminary draft EA revised. IBWC agreed to be cooperating agency. BA and draft EA being prepared.	Send draft EA for public comment. Send out CZMA, 401 water cert, 402 aquatic herbicide, and 404 permit applications. Submit draft BA.	(b) (6), (b) (7)(C)	12/14/15

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
TI	SDC			(b) (7)(E) Vernal Pool Impacts	REC	USFWS requested again assessment and mitigation proposal for (b) (7)(E) vernal pool impacts from BP operations. Discussed report with (b) (6), (b) (7)(C).	Negotiate mitigation with USFWS. Submit vernal pool report to USFWS.	(b) (6), (b) (7)(C)	12/14/15
TI	SDC			(b) (7)(E) (b) (7)(E) Vegetation Removal	MFR/ESP	Request received for additional vegetation removal around (b) (7)(E) Gate and (b) (7)(E). Requirement not in FITT.		(b) (6), (b) (7)(C)	9/21/15
Facilities	SDC			(b) (7)(E) Remediation	REC	Requirement received. Prepare REC.	Complete REC. Send letters to SHPO and tribes. Implement BMPs in REC.	(b) (6), (b) (7)(C)	11/16/15
Facilities	SDC			(b) (7)(E) Checkpoint Water Treatment System Installation	REC	Preliminary Design Report received conditional approval from DDW. NSF 61 certification documentation, final design, and NEPA documentation requested.	Provide additional materials. Prepare letters to USFWS, SHPO, and Tribes. Prepare REC.	(b) (6), (b) (7)(C)	6/29/15
Facilities	SDC	(b) (7)(E)	Multiple	UESC contract, CATEX needed	CATEX	Draft CATEX has been prepared and reviewed. Sent SHPO and tribal letter out.	waiting on SHPO/tribal timeframe	(b) (6), (b) (7)(C)	12/14/15

FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
(b) (7)(E)	Yes	Yes	SEA (b) (7)(E) Checkpoint Improvements	12/31/2017	No
(b) (7)(E)	Yes	Yes			
(b) (7)(E)	Yes	Yes	EA (b) (7)(E) Checkpoint Upgrade	12/31/2015	No
(b) (7)(E)	Yes	Yes	EA (b) (7)(E) Checkpoint Upgrade	12/31/2015	No

FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
	No	No			
(b) (7)(E)	Yes	Yes	ESP (b) (7)(E) Construction	12/31/2016	No
	No	No		8/1/2016	No
	No	No			

FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
(b) (7)(E)	Yes	Yes	Environmental Stewardship Plan for Construction, Operation, and Maintenance of Tactical Infrastructure, (b) (7)(E)	12/31/2017	No
	No	No		12/31/2018	No
	No	No			
	No	No		9/1/2015	No
	No	No			
	No	No		11/1/2015	No

<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initiated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
	No	No			
	No	No			
	No	No			
	No	No			

**Environmental Status - Facilities and TI Projects**

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME
TI/Fac?	SPW	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) BPS - (b) (7)(E) to support operations	CATEX	Met with (b) (7)(E) to identify level of environmental coordination needed for project (REC). OBP provided funding for cultural work. Mission Suport real estate to complete (b) (7)(E) permit.	Cultural work completed. Pending permit package from Mission Suport. SHPO provided concurrence on 04/01/13. (b) (7)(E) requests EA be prepared for operations and maint. Draft EA submitted to (b) (7)(E), awaiting comments.	(b) (6), (b) (7)(C)
TI				(b) (7)(E) Road Repair and Maintenance	EIS	Final proposed action identified. NOI in routing for approval. EIS chapters 1 and 2 with FS for review. SOW and IGCE for follow-on contract completed.	Submit BA to FWS. Complete MOA. Finalize NOI. Award follow-on contract. Update schedule. Circulate chapters 1 and 2 for internal review.	(b) (6), (b) (7)(C)
Facilities	HVM	(b) (7)(E)		Remove 4 10,000 gallon USTs	Montana Tank Closure	CATEX previously signed (2010)	Tanks removed. Analytical data imminent.	(b) (6), (b) (7)(C)
(b) (7)(E)	SPW			Lease and M&R of site	CATEX/SHPO	CATEX draft and SHPO done	followup with SHPO was due Oct 22	(b) (6), (b) (7)(C)



Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
10/28/2015	(b) (7)(E)	Yes	No			
12/14/2015		No	No		12/31/2016	No
7/13/15						
11/12/15						

### Environmental Status - Facilities and TI Projects

<b>Program Office Lead</b>	<b>Sector</b>	<b>Station</b>	<b>City</b>	<b>Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)</b>	<b>NEPA Action / Other Compliance</b>	<b>Status</b>
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Facilities	TCA			(b) (7)(E) and (b) (7)(E) status - Facilities and TI Projects FOB Modification		SEA for Expansion of (b) (7)(E) and (b) (7)(E)
Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	status Cooperating Agency Request Letters sent to (b) (7)(E) and (b) (7)(E) on 6/7/13 Initial Scoping letters sent to stakeholders on 6/10/13 Work Order to HDR approved week of 6/1/13 for bio and cultural surveys Preliminary Draft SEA circulated for CBP
						internal review comments due by 6/14/13 Field Surveys to occur 6/25/13  **Decieson made last week of June to exectue CATEX/REC to provide coverage. CATEX/REC routed for signature on 7/1/13  Recieved concurence from (b) (7)(E) Ecological Services Department-- concurences forwarded to (b) (6) w/ (b) (7)(E) RE on 7/30/13  Letters informing stakeholders of decieson to utilize CATEX will be sent out in early August.
Facilities	TCA	(b) (7)(E)	(b) (7)(E)	Cleanup of existing (b) (7)(E) Firing Range	CERCLA	RI/FS draft document completed. Wating on determination from USACE FUDs to determine if site is eligible for FUDs program and funding.

TI	TCA	(b) (7)(E)		Upgrade (b) (7)(E) Station - Facilities and TI Projects		
Program	Sector	Station	City	Activity Area (CTIMR, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status
Office Lead	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E)		Northland incorporating CBP comments on cultural survey and (b) (7)(E) reviewing Section 7 consultation letter
TI	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Permanent Lighting	EA/ESP Add?	Legal opinion with (b) (6), (b) (7)(C) and (b) (6), (b) (7)(C) awaiting direction
TI	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Wash Crossover	Hard Look	PRD in review w team
TI	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Crossover	Hard Look	PRD in review w/ team. This is slated to be a MILCON design effort. (b) (6), (b) (7)(C) received requirements early December 2015.
TI	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Wash Crossover	Hard Look	Will be included under associated WARD

TI	TCA			EA for (b) (7)(E) Status - Facilities and TI Projects other road segments on		EA and BABE ready for FS review
Program Office Lead	Sector	Station	City	(b) (7)(E) Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status
						Decision has been made in late May 2015 to remove requirements located within the IRA. FS provided extensive comments on the draft EA to CBP the last week of May 15.  Public review has been completed, minimal comments received. (b) (6), (b) (7)(C) working with SWCA in early December 2015 to respond to comments. Once FWS completes consultation CBP will sign FONSI.
TI	TCA	(b) (7)(E)	(b) (7)(E)	Reconstruct (b) (7)(E) Road	Need to complete 106 , Section 7 and NEPA	DOE returned from SHPO to NPS for revision
TI	TCA	(b) (7)(E)	(b) (7)(E)	Construct (b) (7)(E) Secondary Fence	MFR/Stormwater	MFR completed. SWPPP complete. Project extent confirmed 10/07/14. NOI was completed.
TI	TCA	(b) (7)(E)	(b) (7)(E)	Use and maintenance of (b) (7)(E) (b) (7)(E) of roads in (b) (7)(E) wilderness	EA	FY 2015 Start
FAC	TCA	(b) (7)(E)	(b) (7)(E)	Install well at (b) (7)(E) FOB and (b) (7)(E)	(b) (7)(E) is ENV green (b) (7)(E) will required CATEX and 106	Project is in PRD stage only and (b) (6), (b) (7)(C) provided information to USACE PM the week of Feb 16th.
TI	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Erosion Control	Reveg	(b) (5), (b)(6);(b)(7)(C), (b) (7)(E)

TI	TCA			(b) (7)(E) - Facilities and TI Projects		Work with (b) (7)(E) to provide NEPA clearance to ensure access to (b) (7)(E)
TI	TCA	(b) (7)(E)	(b) (7)(E)	CTIMR	NEPA, 106	Clear two access roads to be used for (b) (7)(E) fence replacement project
Program Office Lead	Sector			Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status
TI	TCA	(b) (7)(E)		TIMR - (b) (7)(E) Road	NEPA, 106	Awarded Northland WO to perform Cultural Survey of (b) (7)(E) of existing (b) (7)(E) road located in (b) (7)(E) Station AOR - portions of road are located on (b) (7)(E)
(b) (7)(E)	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E)	CATEX/SHPO and tribes	ust starting, lease for land access for (b) (7)(E)
(b) (7)(E)	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E)	CATEX/SHPO and tribes	Need CATEX based off previous EA. Prepare asap

<b>Next Steps / Action Items</b>	<b>ENV SME</b>	<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initiated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final )</b>	<b>Project Completed? (Y/N)</b>
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<p>Per discussions with (b) (6), (b) (7)(C) CBP may execute the required SEA in-house.</p>	<p>(b) (6), (b) (7)(C)</p>	<p>12/14/15</p>						
<p><b>Next Steps / Action Items</b> Waiting on formal requirements approval by OBP so they can be incorporated into a letter of intent.</p>	<p><b>ENV SME</b></p>	<p><b>Date Updated</b></p>	<p><b>FME#</b></p>	<p><b>In FITT?</b></p>	<p><b>Env Action Initiated?</b></p>	<p><b>Env Action Title</b></p>	<p><b>Completion Date (Anticipated/Final )</b></p>	<p><b>Project Completed? (Y/N)</b></p>
<p>(b) (6), (b) (7)(C) provided ENV language for (b) (7)(E) and (b) (7)(E) LOIs, draft LOI currently being reviewed by PMO prior to submission to (b) (7)(E)</p> <p>Meeting on the (b) (7)(E) scheduled for 9/13/12 to meet with (b) (7)(E) and review upgrades to (b) (7)(E) and (b) (7)(E)</p> <p>(b) (6), (b) (7)(C) advised to begin NEPA clearance...Planning to create SEA in-house. Update on SEA as of 4/12/13 -- draft document is in great shape and is nearly complete and ready for internal review. (b) (6), (b) (7)(C) needs to issue WFO to have bio/cultural surveys of expanded footprint and incorporate results of surveys into SEA.</p> <p>(b) (6), (b) (7)(C) attending site visit requested by EPA to survey CBP drinking water</p>								
<p>Proceed with cleanup of firing range property separately from adjacent parcels while FUDS program investigates UXO on neighboring properties.</p>	<p>(b) (6), (b) (7)(C)</p>	<p>2/4/13</p>	<p>(b) (7)(E)</p>	<p>es</p>	<p>Yes</p>			

Post Final EA	(b) (6), (b) (7)(C)	12/14/15		Yes	Yes			
<b>ENV Complete</b>								
<b>Next Steps / Action Items</b>	<b>ENV SME</b>	<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env</b>	<b>Env Action</b>	<b>Completion Date</b>	<b>Project</b>
Survey Report submitted to (b) (7)(E) in early March 2015. Continue to press (b) (7)(E) for response on Report (b) (6), (b) (7)(C) to meet with (b) (7)(E) on 8/11/15 regarding CR survey report	(b) (6), (b) (7)(C)	12/14/15	(b) (7)(E)	es	Yes	TI M&R (b) (7)(E)	(Anticipated/Final )	Completed? (Y/N)
Covered by waiver (Check status with (b) (6), (b) (7)(C))	(b) (6), (b) (7)(C)	3/18/13						
Covered by waiver, ENV Stewardship Memo under preparation when funded (Check status with (b) (6), (b) (7)(C))	(b) (6), (b) (7)(C)	3/18/13						
Covered by waiver, ENV Stewardship Memo under preparation when funded (Check status with (b) (6), (b) (7)(C))	(b) (6), (b) (7)(C)	12/14/15						
Covered by waiver, ENV Stewardship Memo under preparation when funded (Check status with (b) (6), (b) (7)(C))	(b) (6), (b) (7)(C)	3/18/13						

Need to resolve Inventory Roadless Area issue with FS	(b) (6), (b) (7)(C)	12/14/15	N/A	No	No			
<b>Next Steps / Action Items</b>	<b>ENV SME</b>	<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initiated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final )</b>	<b>Project Completed? (Y/N)</b>
Sector issuing letter to Forest Service in Early April 2015 to discuss exemption of (b) (7)(E) from IRA								
Received comments from FS on Draft EA. CBP responded to comments and is seeking to set up teleconference the week of July 13, 2015 to review CBPs responses to FS comments.								
Teleconference held with FS the first week of August 2015 to review comments, (b) (6), (b) (7)(C) indicated on call that plan is to complete ENV planning in CY 2015. (b) (6), (b) (7)(C) has follow up call with FS on 8/13/15 to review each FS comment on EA and Bio Evaluation.								
CBP to prepare draft EA schedule and draft Cooperating Agency Agreement.	(b) (6), (b) (7)(C)	12/15/15	N/A	Yes	No	N/A		
Followup at project end	(b) (6), (b) (7)(C)(b) (6), (b) (7)(C)	1/12/15	N/A	No	No			
Agree on SOW with NPS and develop MOU	(b) (6), (b) (7)(C)	12/14/15						
Work Currently Unfunded	(b) (6), (b) (7)(C)	12/14/15						
WO awarded. First round of hydro-seeding occurred in late May 2015. Hydrseeding was completed the week of July 6, 2013	(b) (6), (b) (7)(C)	8/10/15						

CBP team working on Plan of Development as requested by (b) (7)(E)	(b) (6), (b) (7)(C)	12/14/15							
Verify RE status and issue WO for cultural survey.	(b) (6), (b) (7)(C)	12/14/15							
<b>Next Steps / Action Items</b>	<b>ENV</b>	<b>ME</b>	<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initiated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final )</b>	<b>Project Completed? (Y/N)</b>
WO for cultural survey has been awarded, waiting on RE clearance to perform survey									
Surveys completed and ENV is green for two of the three access roads. Decieson was made to not pursue the third road due to landowner concerns.									
Draft Report submitted by Northland on 8/7/15	(b) (6), (b) (7)(C)	12/14/15							
SHPO concurrence finally received in November of 2015. SHPO agreed that CBP can plate site. Work to occur December 16, 2015. (b) (6), (b) (7)(C) coordinated for Northland monitor to be in place during site capping.									
	(b) (6), (b) (7)(C)	11/16/15							
working on draft	(b) (6), (b) (7)(C)	12/14/15							

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME
TI	YUM			(b) (7)(E) ESPC Border Lighting Retrofit	REC	New project information received. Preparing SHPO and tribal consultation letters. Preparing REC.	Prepare REC.	(b) (6), (b) (7)(C)
TI	YUM		Yuma	(b) (7)(E) (b) (7)(E)	EA	Construction underway. RECON performing monitoring. Fire management plan and revegetation plan complete.	Continue construction monitoring; mod needed for additional hours. Implement revegetation plan.	(b) (6), (b) (7)(C)
TI	YUM			(b) (7)(E) Fence Replacement	CATEX	CATEX signed. BUOW survey completed. Construction underway.	Implement BMPs in CATEX.	(b) (6), (b) (7)(C)
TI	YUM			(b) (7)(E) Border Road Improvements	MFR	Planning underway for (b) (7)(E) of border road improvement and maintenance east of the (b) (7)(E) POE. Area and type of activity likely covered by (b) (7)(E) waiver. Surveys and impact analysis of similar activity done as part of a 2005 EA.	(b) (5), (b)(6);(b)(7)(C) Prepare MFR.	(b) (6), (b) (7)(C)
Facilities	YUM			(b) (7)(E) FOB (b) (7)(E) (b) (7)(E)	REC	Reviewed previous environmental documents. Agreement to (b) (7)(E) (b) (7)(E) out of wilderness. (b) (6), (b) (7)(E) agrees a REC will suffice for this activity. (b) (6), (b) (7)(E) completed cultural survey and will complete Section 7 requirements.	Follow up with (b) (6), (b) (7)(E) about survey and consultation results. Prepare REC.	(b) (6), (b) (7)(C)
Facilities	YUM			(b) (7)(E) FOB well and leach field	REC	PRD reviewed and comments submitted. (b) (7)(E) completed arch survey; awaiting write-up.	Complete REC.	(b) (6), (b) (7)(C)

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME
Facilities	YUM			(b) (7)(E) BPS Lease Renewal	CATEX	Request received. Preparing CATEX.	Complete CATEX and enter information into EPIIF.	(b) (6), (b) (7)(C)
TI	YUM			Complete environmental planning for establishment of replacement vegetation along (b) (7)(E) limitrophe	CATEX, Section 7, 404 Permit	Environmental compliance completed for CBP action	(b) (7)(E) wants CBP to complete environmental compliance for the proposed action (CBP has completed environmental compliance for its proposed action)	(b) (6), (b) (7)(C)
TI	YUM			Vegetation Treatment at (b) (7)(E)	CATEX	Draft CATEX under review by Yuma Sector		(b) (6), (b) (7)(C)

Date Updated	FME#	In FITT?	Env Action Initated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
12/14/15	(b) (7)(E)	Yes			12/30/2015	No
11/16/15	(b) (7)(E)	Yes			6/30/2016	No
12/14/15	(b) (7)(E)	Yes			12/31/2015	No
9/21/15						
8/10/15					9/30/2015	No
11/16/15					12/31/2016	No



<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
12/14/15		No	No			
6/2/14						
10/20/14						

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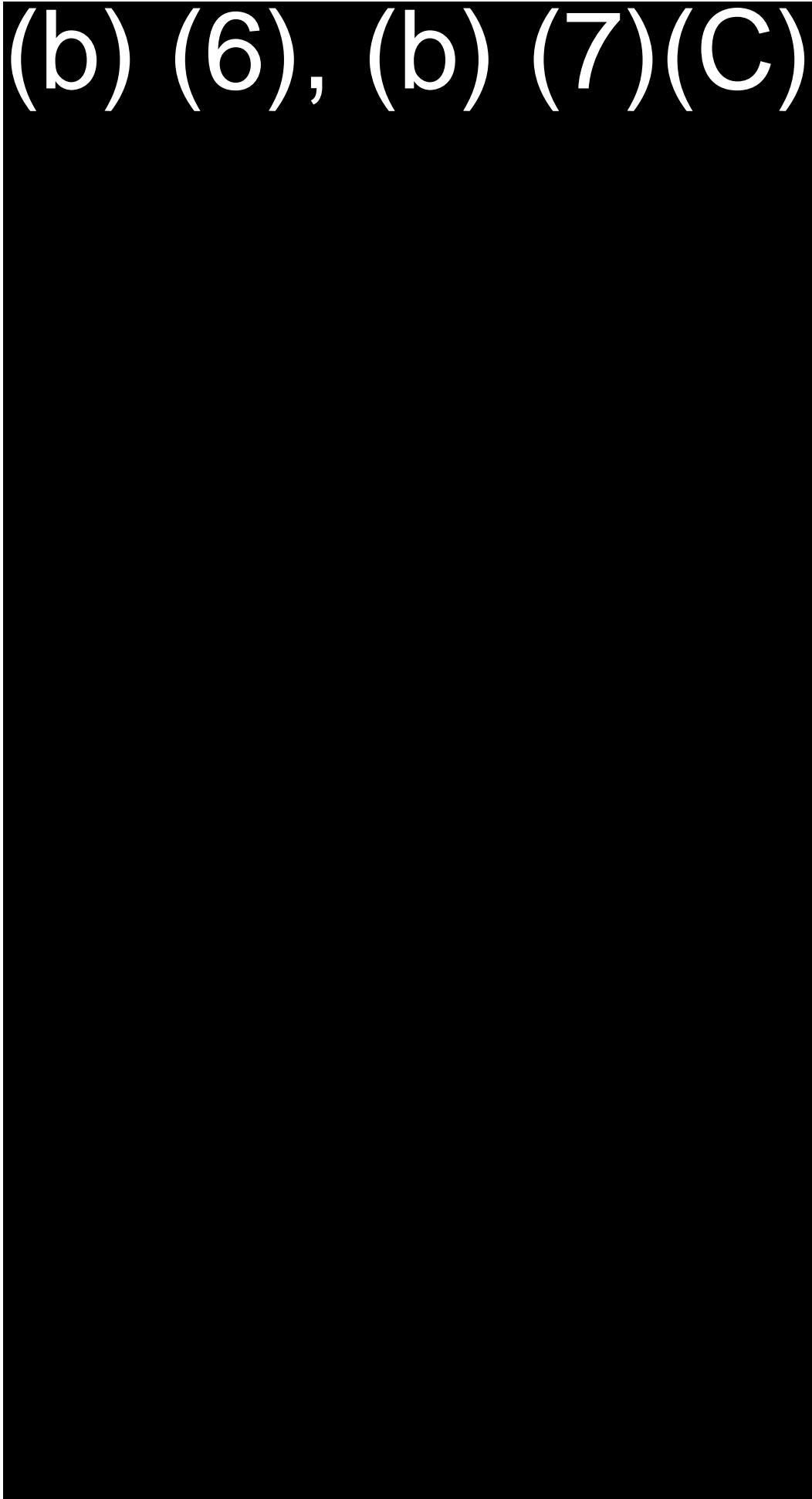
From:

(b) (6), (b) (7)(C)

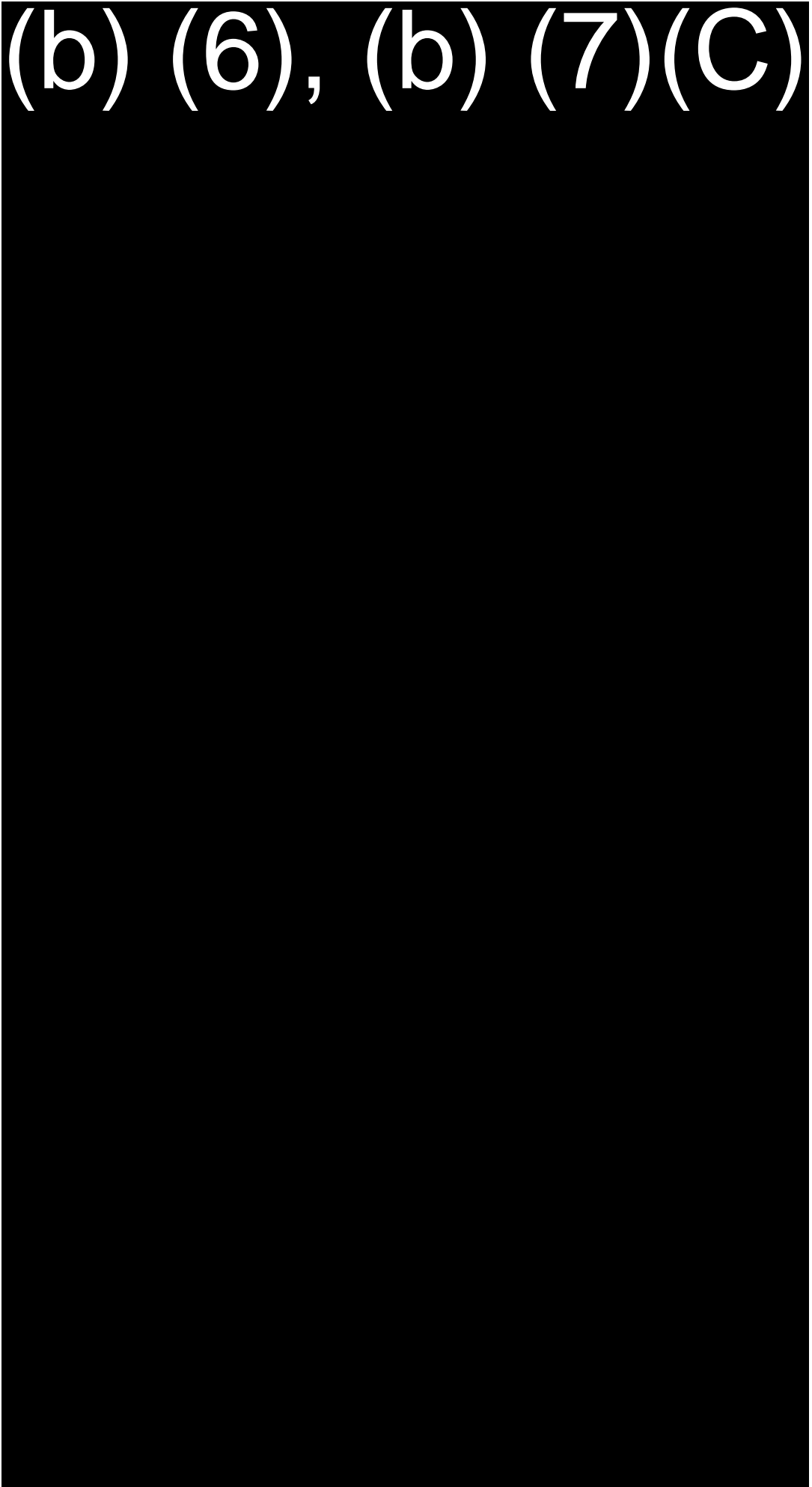
To:

[Redacted]

(b) (6), (b) (7)(C)

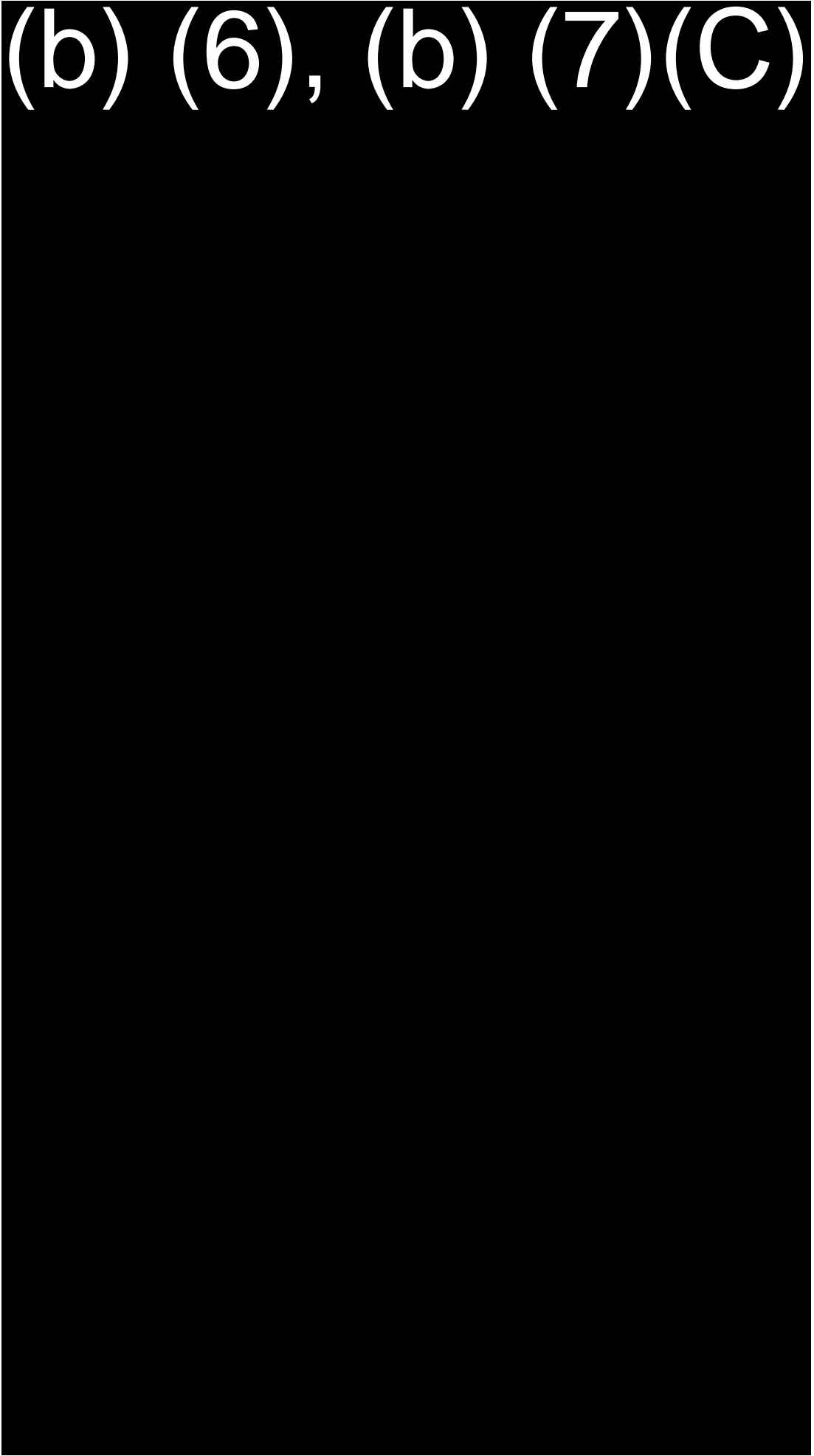


(b) (6), (b) (7)(C)



(b) (6), (b) (7)(C)

(b) (6), (b) (7)(C)



(b) (6), (b) (7)(C)

Cc:

Bcc:

Subject:

Date: Thu Jan 21 2016 14:05:26 EST

Attachments:



ATC is being briefed currently, Grand Forks (1) up next followed by Big Bend (1), El Paso (2), then Tucson

From: (b) (6), (b) (7)(C)

Sent: Thursday, January 21, 2016 12:24 PM

To: (b) (6), (b) (7)(C)

[Redacted content]

(b) (6), (b) (7)(C)

Subject: RE: New BPFTI Project Update Call for the Western Corridor

We have started the Project Update Call and are now covering TI/ (b) (7)(E) and (b) (7)(E) the El Paso area.

\*\*\*Please see below for important changes regarding the Project Update Call for Western Corridor projects starting January 21, 2016. The agenda will begin with ALL Tactical Infrastructure, (b) (7)(E) and (b) (7)(E) updates for both East and West Corridors, to be followed by the West Corridor Facilities Projects. Based on feedback from the OBP TI division, we are exploring the option of a Bi-Monthly Call to provide additional updates on TI projects and M&R.

Call in: (b) (7)(E)  
PIN: (b) (7)(E)

The sequence change in the agenda is as follows: (Please be mindful of email updates from the moderator during the call so you do not miss your presentation time.)

- I. All TI (including CTIMR), (b) (7)(E) and (b) (7)(E)
  - 1) Houlton
  - 2) Swanton
  - 3) Buffalo
  - 4) New Orleans
  - 5) Miami
  - 6) Detroit
  - 7) Rio Grande Valley
  - 8) Laredo
  - 9) Del Rio
  - 10) Grand Forks
  - 11) Big Bend
  - 12) El Paso
  - 13) Spokane
  - 14) Tucson
  - 15) Yuma
  - 16) El Centro
  - 17) San Diego

- II. West Corridor Facilities
  - 1) Buffalo - ATC
  - 2) Grand Forks
  - 3) Big Bend
  - 4) El Paso
  - 5) Tucson
  - 6) Yuma
  - 7) El Centro
  - 8) San Diego

The attached spreadsheet also reflects these changes under the West Corridor tab.

<< File: Copy of New BPFTI Project Update Call.xls >>

\*\*\*\*\*

Hello All,

Please see below for important information regarding the New BPFTI Project Update Call for Western Corridor projects every 3rd Thursday of the month, starting on October 15, 2015.

Call in: (b) (7)(E)  
PIN: (b) (7)(E)

The agenda for the call covering the Western Corridor is as follows:

- 1. Buffalo Sector - ATC Project
- 2. Grand Forks Sector - (b) (7)(E) Facilities

- 3. Big Bend Sector - (b) (7)(E) Facilities
- 4. El Paso Sector - (b) (7)(E) Facilities
- 5. Spokane Sector - (b) (7)(E)
- 6. Tucson Sector - TI, (b) (7)(E) and (b) (7)(E), Facilities
- 7. Yuma Sector - TI, (b) (7)(E) and (b) (7)(E) Facilities
- 8. El Centro Sector - TI, (b) (7)(E) and (b) (7)(E), Facilities
- 9. San Diego Sector - TI, (b) (7)(E) Facilities

Attached is additional guidance on the new call format, templates for PMs to use when providing status updates on projects or M&R, and combined notes with historical information.

Please send any suggestions to (b) (6), (b) (7)(C) and (b) (6), (b) (7)(C)

<< File: New BPFTI Project Update Call.xls >> << File: Project Call Guidance.docx >> << File: Project Call Reporting Template\_M&R.docx >> << File: Project Call Reporting Template\_Projects.docx >>

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From:

(b) (6), (b) (7)(C)

To:

[Redacted]

(b) (6), (b) (7)(C)

Cc:

Bcc:

Subject: NOTES FROM 1/19/16 - (b) (7)(E) Bi-Weekly TI & Facilities Discussion

Date: Wed Jan 20 2016 16:42:46 EST

Attachments:

All,

Once again, rather than continue to update the notes as I have always done - I will just provide notes by exception.

Please alert me if there are any errors or omissions you'd like rectified.

Below notes are from today's call, and include updates in red:

TI:

(b) (7)(E) Project (Including (b) (7)(E) Road - (b) (7)(E)

\*REAL ESTATE: On December 14th, the (b) (7)(E) ratified a Resolution supporting the (b) (7)(E) Project. It does not authorize work to commence, that will not occur until there's a FONSI and a signed Right of Way. Effectively, it signals that (b) (7)(E) as a whole is onboard with the project moving forward, so we will be working closely with reps from (b) (7)(E) toward drafting and negotiating compensation for both Right-of Ways (b) (7)(E) & (b) (7)(E). The actual Right-of-Ways cannot be executed until a FONSI is completed by CBP and by the (b) (7)(E). We will try to commence compensation negotiation asap.

oPROPOSED MOU: The Supporting Resolution for the (b) (7)(E) Project also calls for a separate written agreement. We have not yet begun to discuss the details of this agreement with (b) (7)(E), but they have explained that they expect (b) (5)

(b) (5), (b) (7)(E)

(b) (7)(E): On December 14th, the (b) (7)(E) also ratified a Resolution authorizing another 6-month period during which CBP can perform Maintenance & Repair to the roadway, which lies just north of the 60-foot Roosevelt Reservation. We will try to commence compensation negotiation asap, and to complete a Right of Way asap.

\*DESIGN: FM&E & USACE PM's continue to work with USACE's Alaska District design team to work toward a construction-ready set of plans for the (b) (7)(E) project - i.e. to rework the 100% drawings to reflect

changes proposed in formal comments to the design from the (b) (7)(E) and in discussions with the (b) (7)(E) and OTIA's environmental SME. Following a number of internal meetings and meetings with the (b) (7)(E) the PM's have boiled down the handful of design updates they understand will satisfy (b) (7)(E). We expect draft revisions to the design from Alaska, which will be provided to (b) (7)(E) for comment once they're vetted internally. USACE is developing an updated schedule.

\*ENVIRONMENTAL: A Draft EA was presented to (b) (7)(E) for their internal review in December, before Christmas. We expect (b) (7)(E) comments by the end of January. Then, assuming there are no significant issues raised that require major edits, we anticipate turning around the EA for a 30-day public comment period by mid-February.

#### FACILITIES:

(b) (7)(E) FOB

\*WARRANTY WORK: As of today, all outstanding Warranty Items brought to FM&E's attention have been rectified.

(b) (7)(E) UPGRADE: Contract was AWARDED. Currently coordinating with USACE and Sector to map out schedule for temporary facility shut-down to allow for completion of this work along with the installation of the relocated (b) (7)(E) Modular. Govt review of the 95% design expected complete by 1/11/16, which will then be presented to the contractor for review/comment.

(b) (7)(E) MODULAR: The IAA to USACE WAS PROCESSED; the contract negotiations are being finalized.

\*FOB CLOSING: Sector plans to close the FOB on or about Feb 8th so the work associated with the (b) (7)(E) and the (b) (7)(E) Modular can commence. Construction completion is expected by May 2016.

(b) (7)(E) FOB

(b) (7)(E) UPGRADE: Construction is COMPLETE. However, there are punch-list items being worked, and there is a Change Request in process to install a (b) (7)(E) in the LAN Room within the equipment shelter, which will alert agents if (b) (7)(E)

Very Respectfully,

(b) (6), (b) (7)(C), MBA PMP  
Real Estate Program Manager  
LMI Government Consulting  
Border Patrol Facilities & Tactical Infrastructure  
Program Management Office  
Facilities Management and Engineering  
U.S. Customs and Border Protection

Blackberry: (b) (6), (b) (7)(C)

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Border Patrol's proud legacy.



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From:

To:

(b) (6), (b) (7)(C)



(b) (6), (b) (7)(C)

Cc:

Bcc:

Subject: NOTES FROM 1/19/16 - (b) (7)(E) Bi-Weekly TI & Facilities Discussion

Date: Wed Jan 20 2016 16:42:46 EST

Attachments:

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Once again, rather than continue to update the notes as I have always done – I will just provide notes by exception.

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Below notes are from today's call, and include updates in red:

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\*REAL ESTATE: On December 14th, the (b) (7)(E) ratified a Resolution supporting the (b) (7)(E) Project. It does not authorize work to commence, that will not occur until there's a FONSI and a signed Right of Way. Effectively, it signals that (b) (7)(E) as a whole is onboard with the project moving forward, so we will be working closely with reps from (b) (7)(E) toward drafting and negotiating compensation for both Right-of Ways (b) (7)(E) & (b) (7)(E). The actual Right-of-Ways cannot be executed until a FONSI is completed by CBP and by the (b) (7)(E). We will try to commence compensation negotiation asap.

\*PROPOSED MOU: The Supporting Resolution for the (b) (7)(E) Project also calls for a separate written agreement. We have not yet begun to discuss the details of this agreement with (b) (7)(E), but they have explained that they expect (b) (5)

(b) (5), (b) (7)(E)

(b) (7)(E): On December 14th, the (b) (7)(E) also ratified a Resolution authorizing another 6-month period during which CBP can perform Maintenance & Repair to the roadway, which lies just north of the 60-

foot Roosevelt Reservation. We will try to commence compensation negotiation asap, and to complete a Right of Way asap.

\*DESIGN: FM&E & USACE PM's continue to work with USACE's Alaska District design team to work toward a construction-ready set of plans for the (b) (7)(E) project – i.e. to rework the 100% drawings to reflect changes proposed in formal comments to the design from the (b) (7)(E) and in discussions with the (b) (7)(E) and OTIA's environmental SME. Following a number of internal meetings and meetings with the (b) (7)(E) the PM's have boiled down the handful of design updates they understand will satisfy (b) (7)(E). We expect draft revisions to the design from Alaska, which will be provided to (b) (7)(E) for comment once they're vetted internally. USACE is developing an updated schedule.

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FACILITIES:

(b) (7)(E) FOB

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(b) (7)(E) FOB

(b) (7)(E) UPGRADE: Construction is COMPLETE. However, there are punch-list items being worked, and there is a Change Request in process to install a (b) (7)(E) in the LAN Room within the equipment shelter, which will alert agents i (b) (7)(E)

Very Respectfully,

(b) (6), (b) (7)(C) MBA PMP  
Real Estate Program Manager  
LMI Government Consulting  
Border Patrol Facilities & Tactical Infrastructure  
Program Management Office  
Facilities Management and Engineering  
U.S. Customs and Border Protection

Blackberry: (b) (6), (b) (7)(C)

**(b) (6), (b) (7)(C)**

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Border Patrol's proud legacy.

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From:  
To:

(b) (6), (b) (7)(C)

Cc:  
Bcc:  
Subject: RE: Bi-Weekly ENV Branch/EED Review Call  
Date: Tue Jan 12 2016 12:28:14 EST  
Attachments: Copy of Env Status - Facilities and TI Projects--Jan 12.xls

---

(b) (6), (b) (7)

Thanks. I updated the one range project

(b) (6), (b) (7)

From: (b) (6), (b) (7)(C)  
Sent: Tuesday, January 12, 2016 12:17 PM  
To: (b) (6), (b) (7)(C)  
Cc:  
Subject: RE: Bi-Weekly ENV Branch/EED Review Call

(b) (6), (b) (7)(C)

Attached please find a copy of the updated project spreadsheet.

(b) (6), (b) (7)

From: (b) (6), (b) (7)(C)  
Sent: Monday, January 11, 2016 8:40 AM  
To: (b) (6), (b) (7)(C)  
Subject: RE: Bi-Weekly ENV Branch/EED Review Call

Ok thanks! Did you send out the spreadsheet to update??

From: [REDACTED] (b) (6), (b) (7)(C)  
Sent: Monday, January 11, 2016 10:35 AM  
To: (b) (6), (b) (7)(C)  
Cc: [REDACTED]  
Subject: RE: Bi-Weekly ENV Branch/EED Review Call

Thanks for letting us know [REDACTED] (b) (6), (b) (7)(C). However, the meeting for today is being cancelled as [REDACTED] (b) (6), (b) (7)(C) is in Yuma today. I'll be sending out a cancellation e-mail shortly.

[REDACTED] (b) (6), (b) (7)(C)

-----Original Appointment-----

From: [REDACTED] (b) (6), (b) (7)(C)  
Sent: Monday, January 11, 2016 5:03 AM  
To: [REDACTED] (b) (6), (b) (7)(C)  
Subject: Tentative: Bi-Weekly ENV Branch/EED Review Call  
When: Occurs every 2 week(s) on Monday effective 1/11/2016 from 11:00 AM to 12:00 PM Pacific Standard Time.  
Where: [REDACTED] (b) (7)(E) PIN [REDACTED] (b) (7)(E)

[REDACTED] (b) (6), (b) (7)(C),

I have an appointment this afternoon so I am not sure if I will be on the call or not.

Regarding the range maintenance projects:

[REDACTED] (b) (7)(E) work was completed last week. Equipment is being staged/moved to [REDACTED] (b) (7)(E) and then to [REDACTED] (b) (7)(E) over the next few weeks. [REDACTED] (b) (7)(E) work is set to begin in the next few days. [REDACTED] (b) (7)(E) work is planned for the end of January.

[REDACTED] (b) (5), (b) (7)(E), (b)(6);(b)(7)(C)

[REDACTED] (b) (6), (b) (7)(C)

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
Facilities			2013 EPCRA Reporting		Exploring methods to ensure facilities comply with EPCRA 312 reporting requirements by March 1, 2013.	Awaiting final submittal of forms by sectors to SERCs, LEPCs, fire departments, and PMO in April.	(b) (6), (b) (7)(C)	3/10/14
Facilities			Tucson Master Plan		Submitted comments to (b) (6), (b) (7)(E) on the Statement of Work and environmental questionnaire to develop the Tucson sector master plan.	Comments submitted 1/30/2013. Next step: Participate as sustainability sme in the development of the master plan.	(b) (6), (b) (7)(C)	3/18/13
Facilities	TCA	Multiple	Environmental Compliance Support		All facility visits conducted, awaiting final report.	Final report received, deficiencies closed in TRIRIGA, one follow-up visit still pending.	(b) (6), (b) (7)(C)	7/13/15
Facilities			(b) (7)(E) Design Build		Design kickoff meeting is scheduled for February 27 - 28, 2013.	Participated in Design and Partnering Session. Design meetings should begin in the coming weeks.	(b) (6), (b) (7)(C)	3/18/13
Facilities			(b) (7)(E) Master Plan and Design-Build Projects		Review all design-build award documents in preparation for the meeting.	Design meetings are held every Wednesday from 10am to noon EST	(b) (6), (b) (7)(C)	3/18/13
Facilities			(b) (7)(E) and (b) (7)(E) Solar Project		The decision was made to install ground based solar PVs at (b) (6), (b) (7)(E) FOB and HVAC at (b) (6), (b) (7)(E). (b) (7)(E) DHS performed an assessment of (b) (6), (b) (7)(E) FOB in January, 2013 and is scheduled for a follow-up visit in this month.	It appears the DHS has selected Tier II compliant generators and will install solar panels.	(b) (6), (b) (7)(C)	3/18/13
Facilities	Multiple		Firing Ranges		Contracts to perform maintenance at 5 locations are awarded. Field work has begun	There are now 5 contract packages as follows: (1) DRT (b) (7)(E) and (b) (7)(E) (b) (6), (b) (7)(C) (b) (6), (b) (7)(C) (2) LRT TCA (b) (7)(E) and (b) (7)(E) (b) (7)(E) (3) BBT (b) (7)(E) (4) EPT (b) (7)(E) (5) (b) (7)(E) Anticipate all field work to begin early 2016 and final reports to be completed by Summer 2016. CBP legal and EED approved a Memo for the File to document our NHPA compliance using the Air Force (b) (7)(E) NHPA PA.	(b) (6), (b) (7)(C)	1/12/16
<b>PROJECTS</b>								
Facilities	TCA, EPT		Environmental Compliance Support		Project just awarded.	Will provide compliance support to facilities in TCA and EPT throughout the compliance tasker process (see line 25).	(b) (6), (b) (7)(C)	6/15/15
<b>CURRENT INITIATIVES</b>								
Facilities	Multiple		FY15 Compliance Deficiency Tasker		Tasker to resolve outstanding compliance deficiencies	Tasker issued. Due 9/1.	(b) (6), (b) (7)(C)	7/13/15



FME#	In FITT?	Env Action Initiated?	Env Action Title

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME
Facilities	BUN	(b) (3), (b) (7)(E)	(b) (7)(E)	(b) (7)(E) BPS - new station	EA	Final EA routed for signature	Finalize EA and Route FONSI for USAF and CBP signature	(b) (6), (b) (7)(C)
Facilities	BUN	(b) (3), (b) (7)(E)	(b) (7)(E)	Facility Modification	CATEX	SHPO consultation initiated 7/14/15. Finding of No Adverse Effect issued 7/23/15. CATEX pending.	Draft and finalize CATEX.	(b) (6), (b) (7)(C)
Facilities	BUN	(b) (3), (b) (7)(E)	(b) (7)(E)	Facility Modification	CATEX	SHPO consultation initiated 7/14/15. Finding of No Adverse Effect issued 7/23/15. CATEX completed and executed 8/13/15.	Environmental work complete. No further action required. Construction scheduled for Spring 2016.	(b) (6), (b) (7)(C)

Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
12/11/15	(b) (7)(E)	Yes	Yes	Environmental Assessment		
7/27/15		No	No	(b) (7)(E) BPS Porch and Siding Replacement.		
9/30/15		No	No	(b) (7)(E) BPS Porch and Siding Replacement.		

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)
TI	DRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Cane Veg Removal	CATEX, FWS	FWS letter provided to FWS on 2/28/14 Followed up with FWS on 3/10/14 Sent SHPO LTR on 3/11/14	CATEX completed 5/7/14 -- Provided to PM/COR. FWS consultation resulted in requirement to leave a narrow connectivey corridor, currently working with Sector on identifying area to conserve per FWS consult. (b) (6), (b) (7)(E) to visit project site September 3 & 4, 2014 to discuss corridor with PM/COR. [Confirmed with PM/COR that conservation connectivity corridor will be maintained directly along the (b) (7)(E) Cane in the conservation corridor (b) (7)(E) ]	(b) (6), (b) (7)(E)	12/14/15					
TI	DRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Veg Clearing	CATEX, FWS	Wait on response from FWS on (b) (7)(E) veg removal and then follow up with FWS on (b) (7)(E) request. (b) (7)(E) project is higher priority than (b) (7)(E)		(b) (6), (b) (7)(E)	12/14/15					
TI	DRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E)	CATEX, 106	Visited (b) (7)(E) 1st week of April	(b) (7)(E) existing roads on the (b) (7)(E) where ENV cleared in December 2015, FITT has been updated.	(b) (6), (b) (7)(E)	12/14/15					
TI	DRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E)	CATEX, 106	Visited (b) (7)(E) 1st week of April	Received requirements from Baker GIS team in early May 2015. Need to issue cultural WO to review roads.  Esimate received, waiting on confirmation from DRT TI PM/COR that landowners will allow for survey. Permission from landowner to conduct Cultural surveys on the (b) (7)(E) could not be obtained at this time. The original cultural survey WO included requirements for the (b) (7)(E) --the work for the (b) (7)(E) was complete in 4th quarter of CY2015, work for the (b) (7)(E) has not yet occurred.	(b) (6), (b) (7)(E)	12/14/15					

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)
FAC	DRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Checkpoint Expansion	EA	(b) (6), (b) participated in telecon the week of Jan 20th to discuss requirements for checkpoint expansion. (b) (5)  This checkpoint is included in the broader Texas Checkpoint safety project, (b) (5), (b)(6);(b)(7)(C)  Environmental Contract Awarded to HDR  HDR targeting week of April 20th to perform survey work...HDR provided background info for Sector Vetting to (b) (6), (b) on 4/6/15  (b) (6), (b) circulated draft EA to project team for review the last week of May. (b) (6), (b) to review draft EA the first week of June and provide comments back to HDR.	Draft EA is currently on public review through July 29.  Final EA routing package to be circulated this week (8/10) for OBP/EED Signature  EA and FONSI has been completed. This project is ENV green.	(b) (6), (b)	12/14/15					
TI	DRT			(b) (7)(E) - New TIMR requirements	TIMR EA or Existing CATEX	Baker GIS forwarded a new requirement for clearance known as (b) (7)(E) This road appears to (b) (7)(E) in the vicinity of the (b) (7)(E) If the road is on the (b) (7)(E) it is ENV clear via ext (b) (5) if road is (b) (5)	Waiting for confirmation from Baker on who submitted the requirement and when? Waiting on clarification from RE regarding whether the road is on the (b) (7)(E) or is on (b) (5)	(b) (6), (b)	12/14/15					
FAC	DRT	(b) (7)(E)		Renovate (b) (7)(E) Checkpoint	CATEX/REC or EA	Received PRD week of July 6th. PRD call to be held 7/15/15  Work Order for EA and Phase 1 approved 11/27/15	Waiting on ROE-S in order to proceed with ENV survey work	(b) (6), (b)	12/14/15					
FAC	DRT			(b) (7)(E) - Demolish Modulators	CATEX/REC	Received requirements from PM on 7/10/15. Project also includes the construction of a new processing office which was received by PM on 12/1/15.	SHPO letter sent on 12/2/2015	(b) (6), (b)	12/14/15					
FAC	DRT			Disposal of Old station and Checkpoint	CATEX/106/Due Diligence	Work order issued for phase 1 ESA of old (b) (7)(E) BPS and checkpoint. Final phase 1 ESA was completed and delivered by HDR. Section 106 coordination initiated on 12/1/2015.	Complete 106 and then finalize CATEX	(b) (6), (b)	12/14/15					
FAC	DRT			Install Emergency Generator	CATEX/106	NEPA and 106 have been completed	Page 2	(b) (6), (b)	12/14/15					
TI	DRT			TIMR - Maintain road and Boat Ramp for (b) (7)(E)	CATEX/106	(b) (6), (b) visited the road and boat ramp with station personell and TI PM/COR in November of 2015. Waiting for requirements to be trimmed and routed		(b) (6), (b)	12/14/15					

<b>Project Completed ? (Y/N)</b>

<b>Project Completed ? (Y/N)</b>



## Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items
Facilities	DTM	(b) (7)(E)	(b) (7)(E)	Detroit Sector - Master Plan	Master Plan	Weighing alternatives now.	
				(b) (7)(E) BPS	SEA	(b) (5) for station.	Work with design team to evaluate potential. No alternative energy will be completed for this project. No further action.
Facilities	DTM	(b) (7)(E)		GSA leased property where we are adding parking and upgrades to the building.	REC	Were unable to find GSA EA for station construction. Are proceeding with NEPA coverage for current undertakings.	Cultural and ecological work awarded

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items
FAC	DTM	(b) (7)(E)	(b) (7)(E)	Sector HQ MCA	CATEX, SHPO	Repape lighting, repair sidewalks, remove asbestos, install (b) (7)(E)	<p>(b) (6), (b) (7)(C) received PRD on 4/24/14. Held intial discussions with Sector Facility Manager (b) (6), (b) (7)(C) on work</p> <p>Reached out to (b) (7)(E) and obtained a copy of the (b) (7)(E) Integrated Cultural Resource Plan. Plan indicated that DTM SHQ is a (b) (7)(E)</p> <p>Next step is for (b) (6), (b) (7)(C) to submit (b) (7)(E) initiation form--following receipt of the form, (b) (7)(E) ENV staff will provide recomendations on environmetnal clearance rquirements to include whether we can utilize thier existing Section 106 PA</p> <p>(b) (6), (b) (7)(C) requires re-engagement with PM (8/10/15), prior to (b) (6), (b) (7)(C)s departure she had requested that we place this on hold pending her notification to (b) (7)(E) regarding proposed scope of work.</p>

**Environmental Status - Facilities and TI Projects**

<b>Program Office Lead</b>	<b>Sector</b>	<b>Station</b>	<b>City</b>	<b>Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification</b>	<b>NEPA Action / Other Compliance</b>	<b>Status</b>	<b>Next Steps / Action Items</b>
Facilities	DTM	BPSHQ	Detroit	Stormwater Investigation	Stormwater	Sector requested investigation of large amounts of standing water, lack of drainage at the facility	Survey completed, remote camera investigation of sanitary sewers to follow.

ENV SME	Date Updated	FME#	In FITT?	Env Action Initated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
(b) (6), (b) (7)(C)	4/1/13		No - Supposed to be in the next month	N/A - We are not doing separate env like NEPA for this planning.			
(b) (6), (b) (7)(C)	10/28/13		Yes	Yes			
(b) (6), (b) (7)(C)	6/29/12		No				

<b>ENV SME</b>	<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
(b) (6), (b) (7)(C)	8/10/15						

<b>ENV SME</b>	<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
(b) (6), (b) (7)(C)	7/13/15						

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title
TI	EPT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) drainage repair and replace legacy fence	EA/106/WUS	Work Order for EA, Cultural Survey, Bio, WUS awarded to Northland on May 20.  Cultural Surveys executed May 27	Kick-off meeting tentatively scheduled for June 2  Bio/WUS surveys to occur first week of June  Received EED comments on 7/10/15  Draft EA will be submitted for web-posting on 7/14/15. Public Review begins July 20, 2015.  EA/FONSI completed. This project is ENV Green.	(b) (6), (b) (7)(E)	12/14/15	(b) (7)(E)	Yes	No, this is a study only effort at this point...once it transitions to an actual TI construction project, ENV action will be initiated.	
TI/M&R	EPT	(b) (7)(E)	(b) (7)(E)	Crossing [MILCON]	CATEX/404	Project involves using military construction to re-establish a crossing over an irrigat on canal (b) (7)(E) SOW calls for installing culvert in the irrigation canal, and installing gate to block public access or crossing.  (b) (6), (b) (7)(E) reviewed USACE design drawings the week of Feb 16, 2015	(b) (6), (b) (7)(E) provided comments on PRD 12/8/11...EED has reviewed and approved 106 coordination letters for dissemination to SHPO on March 22.  (b) (6), (b) (7)(E) visited site week of April 16th, straightforward project with minimal impact. No effect to listed species.  CATEX has been finalized and distributed to PM  Issued WO to Northland in early September to conduct phase 1 ESAs of RE requirements...Also ordered cultural survey of access road--Waiting on ROE-SE.	(b) (6), (b) (7)(E)	12/14/15	(b) (7)(E)	Yes	Yes	EPT (b) (7)(E) [MILCON]
TIMR	EPT	(b) (7)(E)	TIMR		EA	IAA between CBP and NM (b) (7)(E) for cost recovery executed in September 2014  Revised EA/BA provided to (b) (7)(E) for review and comment on September 19, 2014--(b) (7)(E) agreed on a one month review period.  (b) (6), (b) (7)(E) held telecon with (b) (7)(E) on 12/12/14 to discuss (b) (6), (b) (7)(E), (b) (7)(E), (b) (6), (b) (7)(E)  NM TIMR began public review on March 16, 2015  Final EA to be routed for signature in Early June 2015. EA has been signed by OBP - Currently Pending FME Signature.  NM (b) (7)(E) is drafting thier own FONSI off of CBP EA (Update from (b) (7)(E) on 8/6/15). (b) (7)(E) will post EA and FONSI on (b) (7)(E) website for 30 days and then will sign (b) (7)(E) FONSI. This action was completed, minimal comments received.	Amended ROW application and revised EA/BA submitted to (b) (7)(E) on 12/20/13  Revised Cooperating Agency MOU sent to (b) (7)(E) on 8/20/12. Discussed with (b) (7)(E) the desire to have executed MOA by 8/31.  DOI HQ (b) (6), (b) (7)(C) requested in-person meeting at (b) (7)(E) office in Las Cruces on 9/25. (b) (7)(E) employees reached out to (b) (6), (b) (7)(E) to request smaller session in advance of large CBP/DOI HQ meeting. Smaller meeting to occur 9/5 in Las Cruces--(b) (6), (b) (7)(E) and EPT PLLA to attend.  9/25/12 meeting went well.. (b) (7)(E) will approve work via ROW and is seeking (b) (5)  (b) (6), (b) (7)(E). Many act on items resulted from meeting which are being tracked seperatly to this spreadsheet.  Recieved (b) (7)(E) lawyer comments on cooperating agency MOU and will revise and finalize MOU the week of 10/30/12  (b) (5), (b) (7)(E), (b) (6);(b) (7)(C)	(b) (6), (b) (7)(E)	12/14/15				

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title
	EPT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Mowing & (b) (7)(E) Maintenance MOAs		Participate in call with USIBWC on 7/9/13 to discuss finalizing IAA to support (b) (7)(E) mowing.  IAA's to be executed after the start of FY14  (b) (6), (b) (7)(E) participated in internal call on (b) (7)(E) mowing IAA on 10/25/13  Need to determine who has lead on this act on given (b) (6), (b) (7)(C) retirement	Participated in call on 7/19 with IBWC...IBWC indicated on the call that they are open to BPFTI using TIMR contractor to complete required (b) (7)(E) mowing--very good news for BPFTI. (b) (6), (b) (7)(E) to work with Sector PMO and PM/COR to create shapefiles to provide to IBWC identifying priority mowing areas. IBWC to provide (b) (6), (b) (7)(E) with shapefiles identifying city of (b) (7)(E) designated "no mow" zones. Work to be coordinated through (b) (7)(E) Mowing MOA.  Similar to mowing, IBWC has agreed in principal to allow BPFTI to maintain (b) (7)(E) road with TIMR contractor. (b) (6), (b) (7)(E) to produce CATEX to clear M&R (b) (7)(E) road, simple CATEX involves blading of (b) (7)(E) (b) (7)(E)  BPFTI delegat on heading to USIBWC headquarters in El Paso in February 2015 to hammer out MOU/MOAs	(b) (6), (b) (7)(E)	12/14/15				
	EPT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) - Support relocation (b) (7)(E) existing due to (b) (7)(E) project	CATEX	(b) (6), (b) (7)(E) reviewed PRD 5/14/14  Team call to review PRD with RE and OCC was requested by (b) (6), (b) (7)(E) the last week of May 2015	(b) (6), (b) (7)(E) to get additional info from TMRP and get TXDOT ENV POC to see what coordination has been completed to date.  TXDOT contacted EED cultural specialist in late August to discuss the scope of the project and weather it includes the relocation of several light poles on IBWC lands. (b) (6), (b) (7)(E) followed up with	(b) (6), (b) (7)(E)	12/14/15				
	FAC	EPT	(b) (7)(E)	(b) (7)(E) Firing Range Study	CATEX	Reviewed PRD for firing range study at (b) (7)(E) Range. Study will look at what upgrades are required to make (b) (7)(E) range functional and will also assess other options that may be available to support EPT range needs (i.e. look at private vendors).		(b) (6), (b) (7)(E)	12/14/15				
(b) (7)(E)	EPT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) MOU and POAM	Research	MOU may expire. Prepared POAM.	Start on actions in 2016.	(b) (6), (b) (7)(E)	12/14/15				
FAC	EPT	(b) (7)(E)	(b) (7)(E)	Replace Firing Range Floor	CATEX/106	SHPO consult routed early December 2015		(b) (6), (b) (7)(E)	12/14/15				
FAC	EPT	Various	Various	Received SOWs for 17 MCAs to be completed via CBP procurement. Projects range from roof replacement, vehicle lift replacement at seven facilities, exterior building repairs, interior building repairs	CATEX/ SW PA	(b) (6), (b) (7)(E) completed CATEXs for MCAs that will be covered by SW PA and loaded them to FITT in early December 2015. (b) (6), (b) (7)(E) will route CATEXs for signature this week.		(b) (6), (b) (7)(E)	12/14/15				
FAC	EPT	Sector HQ	(b) (7)(E)	Replace Rooftop HVAC	CATEX/106	EED indicated that project could not proceed under SW PA. As such consultation with SHPO was initiated in November 2015 and has been completed.	CATEX and 106 have been completed.	(b) (6), (b) (7)(E)	12/14/15				



<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>

<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME
FAC	GFN	(b) (6), (b) (7)	(b) (7)(E)	Clean up indoor firing range	NEPA, RCRA	Received requirements on 6/26/14	<p>(b) (5)</p> <p>Reviewed GSA SOW for Indoor Firing Range investigation, provided feedback to CBP PM.</p> <p>BPFTI received report from industrial hygenist the first week of April 2015, currently under review by (b) (6), (b) (7)(C)</p> <p>Recieved updated lead report the last week of June 15, (b) (6), (b) (7)(C) provided comments in early July.</p>	(b) (6), (b) (7)(C)

Date Updated	FME#	In FITT?	Env Action Initated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
12/14/15	(b) (7)(E)					

## Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
(b) (7)(E)	HVM			(b) (7)(E) Site	CatExs	received notice from BP that site was no longer acceptable with (b) (7)(E) BP to set up follow up call to determine new site location; SOW cancelled	complete ENV clearance for site location once selected	(b) (6), (b) (7)(C)(b) (6), (b) (7)(C)	6/1/15
Facilities	HVM	(b) (7)(E)		(b) (7)(E) BPS Lease Termination	CATEX	Project information received. Preparing CATEX and Site Summary Report.		(b) (6), (b) (7)(C)	6/2/14

FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
	Yes	Yes			

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME
(b) (7)(E)	HLT	All	Many	Helo Sites w some new build, some improvements	CATEX and/or EA/SHPO/arch surveys/Bio	Gathering documents for each site. Had phone w (b) (6), (b) (7)(C) Met w/ (b) (6), (b) (7)(C) to discuss SOW 031815. Spoke w/ (b) (6), (b) (7)(C) 040215	WSPD is to provide us with drawings/env info. Prepared env matrix. Continue support as needed.	(b) (6), (b) (7)(C)
(b) (7)(E)	HLT	(b) (7)(E)	(b) (7)(E)	CATEX and state permit	CATEX/SHPO	Working with (b) (6), (b) (7) at State to complete LURC permit. Site being improved.	Look at previous permit to see what needs updated. Find out about avoidance for thrush.	(b) (6), (b) (7)(C)
(b) (7)(E)	HLT	(b) (7)(E)	(b) (7)(E)	CATEX for (b) (7)(E)	CATEX/SHPO	Prepared draft CATEX and sent SHPO, USFWS letters. Sent SHPO a second time.	Have USFWS concurrence. Waiting on SHPO.	(b) (6), (b) (7)(C)

<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
12/14/15						
12/14/15						
12/14/15						



Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title
Cane Removal	LRT	(b) (7)(E)	(b) (7)(E)	Cane Removal Annual report	Annual Report (5 years) USFWS accepted finding of mostly no temporal loss of habitat and "act of nature" for remaining planting failures	Contract let to GSRC (\$300K), Repairs complete, replanting complete, Revegetation analyses submitted for routing 2/24/2012 Field Sampling for Year 2 report completed May 18	Fourth Year Monitoring Report transmitted to FWS in early October 2014. Letter seeks concurrence from FWS to terminate monitoring, thus relieving CBP from the fifth and final year of monitoring.  FWS did not concur with discontinuing monitor. (b) (6), (b) (7)(C) and (b) (7)(E) held telecon with FWS on July 8, 2015 to discuss this project. FWS suggested (b) (5)	(b) (6), (b) (7)(C)	8/10/15	None	No	No	
Facilities	LRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) BPS	EA/FONSI	met with USFWS on 10/16/14 to discuss path forward, waiting for information from CBP PM (b) (5)	(b) (6), (b) (7)(C) and (b) (7)(E) spoke with (b) (6), (b) (7)(C) about project. Paul spoke with (b) (6), (b) (7)(C) (b) (5), (b) (6), (b) (7)(C)	(b) (6), (b) (7)(C)	12/8/14		Yes		
Cane Removal	LRT	(b) (7)(E)	(b) (7)(E)	Re-vegetation (b) (7)(E) Road Projects - Re-vegetation		irrigation system installed, plantings complete	monitor	(b) (6), (b) (7)(C)	12/11/15	None	No	No	
	LRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) installations for maintenance and repair	REC, SHPO and (b) (7)(E) coordination required		(b) (7)(E) removed from above (b) (7)(E) action due to CR sensitivity potentially eligible for listing, but field work revealed no indications. We will file with the SHPO for no eligibility for listing and therefore no potential to affect, and no need for on-site monitoring.	(b) (6), (b) (7)(C)	12/24/13				
	LRT	(b) (7)(E)	(b) (7)(E)	MILCON road construction (b) (7)(E) (AKA (b) (7)(E) All Weather Road)	EA/CWA/Sec 106/Sec 7	Team site visit December 17; Draft SWPPP sent to team for review; Draft EA should be submitted to CBP on 12/11/15 for internal review and approval, updates based on 90% design	approve EA and prepare for public distribution	(b) (6), (b) (7)(C)	12/11/15				
TI	LRT	(b) (7)(E)	(b) (7)(E)	IMR Roads	CATEX/CWA 404 Section 106	Complete ENV clearances under TX TIMR (b) (7)(E) Access Road - ENV green for M&R	conduct cultural resources surveys and consultations as necessary	(b) (6), (b) (7)(C)	12/11/15				
TI	LRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Boat Ramp-Sandbar removal	CATEX/CWA 404/ESA	received follow up questions from TPWD, workign to respond to questions	finalize ARRP and send to TPWD	(b) (6), (b) (7)(C), (b) (7)(E)	12/11/15				
TI	LRT	(b) (7)(E)	(b) (7)(E)	all (b) (7)(E)	CATEX	Continue to work with OTIA to complete ENV clearance for installation, operation, and M&R of (b) (7)(E) sites and access roads, OTIA	continue to coordinate with OTIA, add CATEXs to FITT as available	(b) (6), (b) (7)(C)	12/11/15		multiple RE #s		
TI	LRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Boat Ramp	CATEX/CWA 404 Section 106	waiting on RE access	complete CR survey, SHPO consultation, 404 compliance, NEPA clearance	(b) (6), (b) (7)(C)	12/11/15				

Completion Date (Anticipated/ Final)	Project Completed ? (Y/N)

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	
TI	BBT	(b) (7)(E)	(b) (7)(E)	TIMR (b) (7)(E) of road M&R on (b) (7)(E)	CATEX	Received call on 4/17 from BBT PM/COR informing me that (b) (7)(E) is currently maintaining (b) (7)(E) road within the (b) (7)(E) on a reimbursable basis via an existing IAA. Now that (b) (7)(E) Contract has been awarded, BPFTI wants to complete this road maintenance using TIMR contractor. PM setting up meeting between (b) (6), (b) (7)(C) and (b) (7)(E) staff to determine environmental compliance needs to support the proposal.  Real Estate is working with PM/COR on providing a draft SUP for the (b) (7)(E) to review	(b) (6), (b) (7)(C) reached out to (b) (7)(E) ENV POC on 5/8/13 to set up call to discuss ENV planning to support request. (b) (6), (b) (7)(C) will attempt to contact (b) (7)(E) ENV POC again next week and if unsuccessful will engage PM/COR to facilitate communications.  (b) (6), (b) (7)(C) contacted (b) (6), (b) (7)(C) from (b) (7)(E) several times over the past few weeks. Will continue to try and engage (b) (6), (b) (7)(C) for the remainder of this week and then will engage BBT Sector PM/COR for assistance in setting up a meeting.  (b) (6), (b) (7)(C) notified (b) (7)(E) PM/COR on 6/24/13 of difficulty getting call back from (b) (7)(E) ENV and suggested BPFTI set up larger meeting/telecon with (b) (7)(E) to discuss the overall effort. PM/COR concurred with advice and indicated he will set up a meeting.  (b) (7)(E) provided feedback that they do not want CBP contractor executing requirements on the the (b) (7)(E). As such, current understanding is that CBP will utilize CTIMR to provide materials (crushed rock) to the	(b) (6), (b) (7)(C)	8/10/15						
FAC	BBT	(b) (7)(E)		Asphalt Replacement	CATEX, 106	Received Requirements from PM first week of April '15	CATEX Complete	(b) (6), (b) (7)(C)	8/10/15						
FAC		(b) (7)(E)		Asphalt Replacement	CATEX, 106	Received Requirements from PM first week of April '15	CATEX Complete	(b) (6), (b) (7)(C)	8/10/15						
FAC	BBT	(b) (7)(E)		Dispose of old (b) (7)(E) BPS	CATEX, 106, Due Diligence	WO for phase 1 sent to LMI for an estimate  LMI completed site visit for Phase 1 in June of 2015, currently waiting for report submittal  Draft report submitted in early August 2015, (b) (6), (b) (7)(C) to review Phase 1 ESA this week.	Phase 1 ESA came back with a recognized ENV site condition. As such, BPFTI will proceed with compelling soil removal and testing for the burn pit area recognized as environmental condition. GSA requested that CBP resolve issue prior to disposal. (b) (6), (b) (7)(C) is drafting a WO for the soil removal and testing and hopes to route for an estimate the week of 12/14/15.	(b) (6), (b) (7)(C)	12/14/2015						
TI	BBT	(b) (7)(E)		Maintain approximately (b) (7)(E) of (b) (7)(E) access roads	CATEX, 106	(b) (6), (b) (7)(C) received SHPO concurrence on action on 6/10/15.  Notified TI PM/COR that requirement is green and covered via Texas TIMR EA		(b) (6), (b) (7)(C)	8/10/15						

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)
(b) (7)(E)	BBT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E)	CATEX/SHPO and tribes	just starting. May have archeology in area.		(b) (6), (b) (7)(C)	11/16/15					
TI	BBT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Road - TIMR	Section 106	Project includes maintenance and repair of between (b) (7)(E) of existing roads known as (b) (7)(E) and associated access road.	(b) (6), (b) (7)(C) is confirming the requirements that were routed through FITT clearance process accuratley reflect all the requirements. This is coordiation with the station and FITT GIS began in early December 2015.	(b) (6), (b) (7)(C)	12/14/15					
TI	BBT	(b) (7)(E)	(b) (7)(E)	Boat Ramps and Access Roads in (b) (7)(E) AOR - TIMR	Section 106	Project includes maintenance and repair of approximately (b) (7)(E) boat ramps and (b) (7)(E) of maintenance and repair. (b) (6), (b) (7)(C) conducted site visit with station personell and sector TI PM/COR in November of 2015.	(b) (6), (b) (7)(C) is confirming the requirements that were routed through FITT clearance process accuratley reflect all the requirements. This is coordiation with the station and FITT GIS began in early December 2015.	(b) (6), (b) (7)(C)	12/14/15					
FAC	BBT	(b) (7)(E)	(b) (7)(E)	lease renewal	CATEX	CATEX compelted		(b) (6), (b) (7)(C)	12/14/15					
FAC	BBT	(b) (7)(E)	(b) (7)(E)	lease renewal	CATEX	CATEX completed		(b) (6), (b) (7)(C)	12/14/15					
FAC	BBT	(b) (7)(E)	(b) (7)(E)	lease renewal	CATEX	CATEX compelted		(b) (6), (b) (7)(C)	12/14/15					

Project Completed? (Y/N)

Project Complete? (Y/N)

**Environmental Status - Facilities and TI Projects**

<b>Program Office Lead</b>	<b>Sector</b>	<b>Station</b>	<b>City</b>	<b>Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)</b>	<b>NEPA Action / Other Compliance</b>	<b>Status</b>	<b>Next Steps / Action Items</b>	<b>ENV SME</b>	<b>Date Updated</b>
(b) (7)(E)	NLL	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) lease rooftop sites	CATEX, SHPO	Draft CATEX working. Need more info from (b) (6), (b) (7)(C)	Followup wi (b) (6), (b) (7)(C)	(b) (6), (b) (7)(C)	11/16/15
(b) (7)(E)	NLL	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) lease land	CATEX, SHPO	Draft CATEX working. Need more info from (b) (6), (b) (7)(C)	Followup wi (b) (6), (b) (7)(C)	(b) (6), (b) (7)(C)	11/16/15

<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>



**Environmental Status - Facilities and TI Projects**

<b>Program Office Lead</b>	<b>Sector</b>	<b>Station</b>	<b>City</b>	<b>Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)</b>	<b>NEPA Action / Other Compliance</b>	<b>Status</b>	<b>Next Steps / Action Items</b>	<b>ENV SME</b>	<b>Date Updated</b>

<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
Facilities	New Orleans	Sector HQ	New Orleans	Move/Consolidation of Sector HQ	GSA completing NEPA; CBP CATEX once GSA CATEX Complete	CATEX complete; need to conduct due diligence and CATEX for parking space rental once location determined		(b) (6), (b) (7)(C)	6/9/15
Facilities	New Orleans	(b) (7)(E) BPS	(b) (7)(E)	Consolidation of CBP into GSA leased facility owned by (b) (7)(E) (b) (7)(E)	Addition of (b) (7)(E) to proposed action	REC previously prepared, need to determine if additional NEPA need for (b) (7)(E) No update yet.	Need to determine if additional NEPA need for (b) (7)(E)	(b) (6), (b) (7)(C)	1/6/2014
Facilities, Air and Marine	New Orleans	(b) (7)(E)	(b) (7)(E)	For the lease of unoccupied and undeveloped land parcel adjacent to the south side of the (b) (7)(E) facility to support critical mission requirements and capabilities	CATEX/SHPO	waiting for information from PM to begin environmental clearance		(b) (6), (b) (7)(C)	8/10/2015
(b) (7)(E)	NLL	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) lease	CATEX, SHPO	Draft CATEX done, SHPO sent (no tribal). Have concurrence.	document reason for floodplain	(b) (6), (b) (7)(C)	11/16/15
(b) (7)(E)	NLL	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) lease	CATEX, SHPO	Draft CATEX done. SHPO complete	finalizing CATEX	(b) (6), (b) (7)(C)	12/14/15

FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
(b) (7)(E)					


Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title
TI	RGV	(b)(7)(E)	(b)(7)(E)		(b)(7)(E)	This project was extensively discussed with IBWC the week of Feb. 9th, 2015. Construction start date is projected for August 2015. TX DOT is still working to complete EA.  NEPA/ BO renegotiation  Received PRD from USACE ENV in May of 2014, reviewed by (b)(6), (b)(7)(E) Awaiting next steps	(b)(7)(E), (b)(5)  New BO by SHA.	(b)(6), (b)(7)(E)	12/14/15		None	No	No
	RGV	(b)(7)		(b)(7)(E) Border and Access Road Repairs	CATEX/ 404 - Nationwide General Permits/SHPO/Coordination with IBWC, USFWS and USDA	(b)(7)(E) Road was realigned in March of 2015  Final rotation is currently under way, last day of construction is April 17th...ENV needs funds to address Haz Waste Issue--Issue has been resolved. PCD funded.  Project is complete, however need to make sure that USACE/CBP execute payment for FWS reveg/restoration. Work continues with USACE/FWS to coordinate funds transfer. (b)(6), (b)(7)(E) approved CR in FITT for funds transfer in early December 2015.	Arch site located by FWS biologist the week of Jan 12th in the arroyo work area. (b)(6), (b)(7)(E) issued WO to northland who visited site on Jan 19th, 2015. Northland recommend site not eligible and (b)(6), (b)(7)(E) secured SHPO concurrence that project may proceed as planned on January 20th, 2015.  ENV monitoring contract for FY15 deployment (2 rotations) has been awarded to Northland.  Kick-off Meeting to occur at (b)(7)(E) BPS on 1/16/14  CATEX for new water filling station for FY15 has been complete	(b)(6), (b)(7)(E)	12/14/15		None	No	No
TI	RGV			RGV (b)(7)(E) (b)(7)(E)	EA	(b)(5)  GSRC has accompanied USACE site walk and looks on two weekly visits to the field.  GSRC to begin conducting full blown surveys the last week of July 2015. Site Visit Request form submitted by (b)(6), (b)(7)(E) the Second week of July 2015. First round of surveys went well, current plan is to conduct second round of ENV surveys the week of 8/17/15.	ENV funds transferred from OTIA to BPFTI PMO ENV Branch on June 9, 2014...  Project kick-off meeting scheduled for (b)(5) in RGV  Received update from CBP procurement on July 24, 2014--currently anticipate award of env contract on or around (b)(5)  (b)(5)  Contract awarded September 5, 2014!!  ENV Kick-off Meeting Held 9/22/14	(b)(6), (b)(7)(E)	12/14/15				

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title
FAC	RGV			RGV facilities and (b) (7)(E)	CATEX	ENV provided language for PRD which was routed late May 2014 for signature.  (b) (6), (b) (7)(E) to complete CATEX/REC by January 1, 2015. Currently in process of compiling building history and NHPA adjacencies to support effect determination for additional (b) (7)(E), (b) (7)(E)	(b) (6), (b) (7)(E) sent SHPO letters for (b) (7)(E) facilities and (b) (7)(E), (b) (7)(E) on 8/12/14  SHPO Clearance received for (b) (7)(E) and (b) (7)(E), (b) (7)(E)  CATEX completed for (b) (7)(E), (b) (7)(E) in September '14--Signed CATEX provided to PM (b) (6), (b) (7)(E)  Waiting on confirmation of (b) (7)(E), (b) (7)(E), (b) (7)(E) (based on 15% design) before executing a CATEX for (b) (7)(E), (b) (7)(E)  CATEX for (b) (7)(E) Facilities and (b) (7)(E), (b) (7)(E) completed in November 2014	(b) (6), (b) (7)(E)	12/14/15				
TI	RGV			RGV Legacy (b) (7)(E)	CATEX	ENV provided language for PRD which was routed late May 2014 for signature.	Review existing env documents to see if legacy upgrades already have existing coverage. (b) (7)(E), (b) (5)	(b) (6), (b) (7)(E)	12/14/15				
TI	RGV	(b) (7)(E)	all	TIMR Roads	CATEX/CWA 404 Section 106	Complete ENV clearances under TX TIMR EA; coordinating with USACE to determine which roads can be cleared on (b) (7)(E) under SWPA	conduct cultural resources surveys and consultations as necessary	(b) (6), (b) (7)(E)	12/11/2015				
TI	RGV	(b) (7)(E)	all	Continue to work with OTIA to complete ENV clearance for installation, operation, and M&R of (b) (7)(E) sites and access roads, OTIA completing CATEXs and BPFTI is providing support and adding final CATEXS to FITT	CATEX	continue to coordinate with OTIA, add CATEXS to FITT as available		(b) (6), (b) (7)(E)	12/11/2015		multiple RE #s		
TI	RGV			(b) (7)(E) Proposed Boat Ramps in RGV	CATEX/CWA 404 Section 106	supporting development of PRDs and conducting environmental clearance for (b) (7)(E) proposed boat ramps in RGV, conducting site visit with RE and Engineering		(b) (6), (b) (7)(E)	12/11/2015				
TI	RGV	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Boat Ramp	CATEX/CWA 404 Section 106	PRD in development, Northland on contract to complete CR survey, waiting for PRD and RE access	complet CR survey, SHPO consultation, 404 compliance, NEPA clearance	(b) (6), (b) (7)(E)	12/11/2015				
(b) (7)(E)	RGV	(b) (7)(E)	(b) (7)(E)	(b) (7)(E)	CATEX/Phase I/SHPO	Completed WO. Did research on land.	provide support as needed. Draft CATEX.	(b) (6), (b) (7)(E)	12/14/15				

Completion Date (Anticipated/Final)	Project Completed? (Y/N)

Completion Date (Anticipated/Final)	Project Completed? (Y/N)



Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME
	SWB	(b) (7)(E)		SWB (b) (7)(E) New (b) (7)(E) Design & Construction	EA, to completed by OTIA, BPFTI to support ENV clearance as needed and review draft ENV documents	PRD being routed for approval; FAA awarded EA contract to GSRC; coordinating with OITA ((b) (6), (b) (7)(C) regarding support needed from BPFTI on EA reviews	review draft ENV documents developed by OTIA	(b) (6), (b) (7)(C)

<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
11/16/15						



## Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
TI	ELC			(b) (7)(E) Road Maintenance and Repair (includes (b) (7)(E) access road)	EA	Phase (b) (7)(E) complete. SOW for Phase (b) (7)(E) monitoring sent to Northland.	(b) (5)	(b) (6), (b) (7)(C)	12/14/15
TI	ELC			(b) (7)(E) Maintenance and Repair	REC	(b) (7)(E) requested special attention to this non-owned operational road. Discussed with (b) (7)(E) on June 3. (b) (7)(E), (b) (5) working real estate with Caltrans.	(b) (7)(E) supports this project and restoration of the impact areas outside of the roadway.	(b) (6), (b) (7)(C)	7/27/15
TI	ELC			(b) (7)(E) Barrier Maintenance and Vegetation Management	CATEX	Surveys complete. CATEX complete. Information entered into EPIIF.	Implement BMPs in CATEX.	(b) (6), (b) (7)(C)	12/14/15
TI	ELC			(b) (7)(E) Vegetation Management	EA	Request received for vegetation removal along (b) (7)(E) north of the border. Requirement not in FITT. EA needed due to known occurrence of and suitable habitat for (b) (7)(E) rail.	Await further instructions from OBP.	(b) (6), (b) (7)(C)	11/16/15

## Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
Facilities	ELC			(b) (7)(E) BPS UST Removal	CATEX	USTs removed. Closure report submitted to DTSC and EPA. Prepared SOW for additional site remediation measures. Working with RE to get LMI subcontractor access to the site.	Awaiting estimates from Contractors.	(b) (6), (b) (7)(C)	6/15/15
Facilities	ELC/Yuma	(b) (7)(E)	Multiple	CATEX needed	CATEX	on hold	participate in meetings as needed	(b) (6), (b) (7)(C)	11/16/15

FME#	In FITT?	Env Action Initated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
(b) (7)(E)	Yes	Yes	EA (b) (7)(E) (b) (7)(E) AWR Construction	12/31/2016	No
	No	No		12/31/2016	No
	Yes	No			
	No	No			

FME#	In FITT?	Env Action Initated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
	No	No		3/15/2016	No

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
Facilities	SDC	(b) (7)(E)		(b) (7)(E) Checkpoint Mitigation	EA/FONSI	NNIS removal mitigation and puncture vine removal ongoing. Another round of treatment completed in late September.	Incorporate puncture vine removal and eradication program into checkpoint landscaping contract or lease. Discuss SOW and path forward with CDFW and FWS.	(b) (6), (b) (7)(C)	11/16/15
Facilities	SDC	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) BPS	N/A	On-going UST cleanup	SVE and air sparge system installed. Additional GW wells installed off site for free product delineation. System operational since Oct. 2011. Ongoing GW monitoring and AS/SVE report reviews. Prepared EFL. VI report reviewed and requested changes (conf call 10/08/14). Reviewed revised VI report (DD 11/25/14). Additional VI report revisions were made. Conference call for VI 012215. Ctr making edits.	(b) (6), (b) (7)(C)	02/29/15
Facilities	SDC	(b) (7)(E)		(b) (7)(E) Checkpoint Upgrade (b) (7)(E)	EA/FONSI	Construction expected to begin in (b) (5)	Implement BMPs in EA and FONSI.	(b) (6), (b) (7)(C)	11/16/15
Facilities	SDC			(b) (7)(E) Checkpoint (b) (7)(E) Road and Interim Checkpoint (b) (7)(E)	REC	Consultation letter sent to USFWS; expecting response soon.	Complete REC for (b) (7)(E) road and temporary checkpoint.	(b) (6), (b) (7)(C)	11/16/15



## Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
TI	SDC			Gapfiller	SWPPP, SPCCP, and Re-vegetation Plan	401/404 permit applications submitted. 401 Certification held up due to CEQA consistency issues -- need CEQA addendum. 404 permit delayed with request for additional information. Got authorization and registered for data entry role in SMART.	Send permit checklist to TIMR for completion. Enter project information in SMART. Contract QSP to complete SWPPP and monitor SWPPP implementation during work.	(b) (6), (b) (7)(C)	2/18/14
TI	SDC			(b) (7)(E) Re-vegetation effort	Re-vegetation Plan	Year 4 maintenance ongoing. Monitoring conducted in early June. Monitoring report received and under review.	Work with (b) (6);(b) (7)(C) to remove equipment and material from temporary staging area and prepare it for revegetation.	(b) (6), (b) (7)(C)	9/21/15
TI	SDC			(b) (7)(E) Vegetation Management Plan	Re-vegetation Plan	Year 5 maintenance ongoing. Monitoring conducted in early June. Monitoring report received and under review.	Continue Year 5 maintenance and monitoring.	(b) (6), (b) (7)(C)	9/21/15

## Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
TI	SDC			(b) (7)(E) Real Estate Disposal	Phase 1 ESA and CATEX	Working with PMO Real Estate to transfer property through GSA. Sent letter documenting completion of wetland mitigation at (b) (7)(E) to Corps LA District. USFWS expressed interest in helping to transfer both properties.	(b) (6), (b) (7)(C) taking lead on GSA excess.	(b) (6), (b) (7)(C)	1/6/14
TI	SDC			(b) (7)(E) - JTF FY11 Project	ESP	Year 3 maintenance ongoing. Monitoring report received and under review.	Continue Year 3 maintenance and monitoring.	(b) (6), (b) (7)(C)	9/21/15
Other	SDC			Brand's Phacelia Annual Inventory	?	RECON completed Year 2 weed removal and monitoring. Survey complete. Final report submitted to USFWS. Annual meeting with working group held in October.	Implement Year 3 weed removal and monitoring.	(b) (6), (b) (7)(C)	11/16/15
TI	SDC			(b) (7)(E)(b) (7)(E) Brush Clearing	MFR/ESP	Request received for additional vegetation removal. Requirement not in FITT.	Prepare MFR for additional vegetation removal as necessary.	(b) (6), (b) (7)(C)	2/2/15
TI	SDC			(b) (7)(E) Trail Maintenance	CATEX	USFWS concurrence received. Finalizing CATEX.	Enter information into EPIIF.	(b) (6), (b) (7)(C)	12/14/15

## Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
TI	SDC			(b) (7)(E) Road Maintenance	EA/FONSI	Request made by SDC for maintenance up to and potentially including wilderness. Support from the (b) (7)(E) USFWS, and CDFW. Requested input from (b) (6), (b) (7)(C)	Confirm TIMR requirement status. Send work order to Northland for estimate and begin scoping process.	(b) (6), (b) (7)(C)	4/14/14
TI	SDC	(b) (7)(E)		(b) (7)(E) Vegetation Control	EA/FONSI	Preliminary draft EA revised. IBWC agreed to be cooperating agency. BA and draft EA being prepared.	Send draft EA for public comment. Send out CZMA, 401 water cert, 402 aquatic herbicide, and 404 permit applications. Submit draft BA.	(b) (6), (b) (7)(C)	12/14/15
TI	SDC			(b) (7)(E) Vernal Pool Impacts	REC	USFWS requested again assessment and mitigation proposal for (b) (7)(E) vernal pool impacts from BP operations. Discussed report with (b) (6), (b) (7)(C)	Negotiate mitigation with USFWS. Submit vernal pool report to USFWS.	(b) (6), (b) (7)(C)	12/14/15
TI	SDC			(b) (7)(E) (b) (7)(E) Vegetation Removal	MFR/ESP	Request received for additional vegetation removal around (b) (7)(E) Gate and (b) (7)(E). Requirement not in FITT.		(b) (6), (b) (7)(C)	9/21/15
Facilities	SDC			(b) (7)(E) Remediation	REC	Requirement received. Prepare REC.	Complete REC. Send letters to SHPO and tribes. Implement BMPs in REC.	(b) (6), (b) (7)(C)	11/16/15

## Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
Facilities	SDC			(b) (7)(E) Checkpoint Water Treatment System Installation	REC	Preliminary Design Report received conditional approval from DDW. NSF 61 certification documentation, final design, and NEPA documentation requested.	Provide additional materials. Prepare letters to USFWS, SHPO, and Tribes. Prepare REC.	(b) (6), (b) (7)(C)	6/29/15
Facilities	SDC	(b) (7)(E)	Multiple	UESC contract, CATEX needed	CATEX	Draft CATEX has been prepared and reviewed. Sent SHPO and tribal letter out.	waiting on SHPO/tribal timeframe	(b) (6), (b) (7)(C)	12/14/15

FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
(b) (7)(E)	Yes	Yes	SEA (b) (7)(E) Checkpoint Improvements	12/31/2017	No
(b) (7)(E)	Yes	Yes			
(b) (7)(E)	Yes	Yes	EA (b) (7)(E) Checkpoint Upgrade	12/31/2015	No
(b) (7)(E)	Yes	Yes	EA (b) (7)(E) Checkpoint Upgrade	12/31/2015	No

FME#	In FITT?	Env Action Initated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
	No	No			
(b) (7)(E)	Yes	Yes	ESP (b) (7)(E) Construction	12/31/2016	No
	No	No		8/1/2016	No

FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
	No	No			
(b) (7)(E)	Yes	Yes	Environmental Stewardship Plan for Construction, Operation, and Maintenance of Tactical Infrastructure, (b) (7)(E)	12/31/2017	No
	No	No		12/31/2018	No
	No	No			
	No	No		9/1/2015	No

<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
	No	No			
	No	No		11/1/2015	No
	No	No			
	No	No			
	No	No			



<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
	No	No			

**Environmental Status - Facilities and TI Projects**

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME
TI/Fac?	SPW	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) BPS - (b) (7)(E) to support operations	CATEX	Met with (b) (7)(E) to identify level of environmental coordination needed for project (REC). OBP provided funding for cultural work. Mission Suport real estate to complete (b) (7)(E) permit.	Cultural work completed. Pending permit package from Mission Suport. SHPO provided concurrence on 04/01/13. (b) (7)(E) requests EA be prepared for operations and maint. Draft EA submitted to (b) (7)(E) awaiting comments.	(b) (6), (b) (7)(C)
TI				(b) (7)(E) Road Repair and Maintenance	EIS	Final proposed action identified. NOI in routing for approval. EIS chapters 1 and 2 with FS for review. SOW and IGCE for follow-on contract completed.	Submit BA to FWS. Complete MOA. Finalize NOI. Award follow-on contract. Update schedule. Circulate chapters 1 and 2 for internal review.	(b) (6), (b) (7)(C)
Facilities	HVM	(b) (7)(E)		Remove 4 10,000 gallon USTs	Montana Tank Closure	CATEX previously signed (2010)	Tanks removed. Analytical data imminent.	(b) (6), (b) (7)(C)
(b) (7)(E)	SPW	(b) (7)(E)	(b) (7)(E)	Lease and M&R of site	CATEX/SHPO	CATEX draft and SHPO done	followup with SHPO was due Oct 22	(b) (6), (b) (7)(C)

Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
10/28/2013	(b) (7)(E)	Yes	No			
12/14/2015		No	No		12/31/2016	No
7/13/15						
11/12/15						

### Environmental Status - Facilities and TI Projects

<b>Program Office Lead</b>	<b>Sector</b>	<b>Station</b>	<b>City</b>	<b>Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)</b>	<b>NEPA Action / Other Compliance</b>	<b>Status</b>
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Facilities	TCA			(b) (7)(E) - FOB Modification	Status - Facilities and TI Projects	SEA for Expansion of (b) (7)(E) and (b) (7)(E)
Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status
						<p>Cooperating Agency Request Letters sent to (b) (7)(E) and (b) (7)(E) on 6/7/13                      Initial Scoping letters sent to stakeholders on 6/10/13                      Work Order to HDR approved week of 6/1/13 for bio and cultural surveys                      Preliminary Draft SEA circulated for CBP internal review comments due by 6/14/13                      Field Surveys to occur 6/25/13</p> <p>**Decieson made last week of June to exectue CATEX/REC to provide coverage. CATEX/REC routed for signature on 7/1/13</p> <p>Recieved concurence from (b) (7)(E) and (b) (7)(E) Ecological Services Department--concurences forwarded to (b) (6) w/ (b) (7)(E) RE on 7/30/13</p> <p>Letters informing stakeholders of decieson to utilize CATEX will be sent out in early August.</p>
Facilities	TCA	(b) (7)(E)	(b) (7)(E)	Cleanup of existing (b) (7)(E) Firing Range	CERCLA	RI/FS draft document completed. Wating on determination from USACE FUDs to determine if site is eligible for FUDs program and funding.

TI	TCA	(b) (7)(E)		Upgrade (b) (7)(E) Road	Status - Facilities and TI Projects	
Program Office Lead	Sector TCA	(b) (7)(E)	City	Activity Area (CTIMR, Road M and R, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status
					CATEX Likely	Northland incorporating CBP comments on cultural survey and (b) (7)(E) reviewing Section 7 consultation letter
TI	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Permanent Lighting	EA/ESP Add?	Legal opinion with (b) (6), (b) (7)(C) and (b) (6), (b) (7)(C) awaiting direction
TI	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Wash Crossover	Hard Look	PRD in review w team
TI	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) (b) (7)(E) Crossover	Hard Look	PRD in review w/ team. This is slated to be a MILCON design effort. (b) (6), (b) (7)(C) received requirements early December 2015.
TI	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Wash Crossover	Hard Look	Will be included under associated WARD

TI	TCA			EA for (b) (7)(E) Status - Facilities and TI Projects other road segments on		EA and BABE ready for FS review
Program Office Lead	Sector	Station	City	(b) (7)(E) Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status
						Decieson has been made in late May 2015 to remove requirments located within the IRA. FS provided extensive comments on the draft EA to CBP the last week of May 15.  Public review has been compelted, minimal comments recieved. (b) (6), (b) (7)(C) working with SWCA in early December 2015 to respond to comments. Once FWS completes consulation CBP will sign FONSI.
TI	TCA	(b) (7)(E)	(b) (7)(E)	Reconstruct (b) (7)(E) Road	Need to complete 106 , Section 7 and NEPA	DOE returned from SHPO to NPS for revision
TI	TCA	(b) (7)(E)	(b) (7)(E)	Construct (b) (7)(E) Secondary Fence	MFR/Stormwater	MFR completed. SWPPP complete. Project extent confirmed 10/07/14. NOI was completed.
TI	TCA	(b) (7)(E)	(b) (7)(E)	Use and maintenance of (b) (7)(E) miles of roads in (b) (7)(E) wilderness	EA	FY 2015 Start
FAC	TCA	(b) (7)(E)	(b) (7)(E)	Install well at (b) (7)(E) FOB and (b) (7)(E)	(b) (7)(E) is ENV green (b) (7)(E) will required CATEX and 106	Project is in PRD stage only and (b) (6), (b) (7)(C) provided infomration to USACE PM the week of Feb 16th.
TI	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Erosion Control	Reveg	(b) (7)(E), (b) (6), (b) (7)(C), (b) (5)

TI	TCA			(b) (7)(E) - Facilities and TI Projects		Work with (b) (7)(E) to provide NEPA clearance to ensure access to (b) (7)(E)
TI Program Office Lead	TCA Sector	(b) (7)(E) Station	(b) (7)(E)	CTIMR Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA, 106 NEPA Action / Other Compliance	Status Clear two access roads to be used for (b) (7)(E) fence replacement project
TI	TCA	(b) (7)(E)		TIMR - (b) (7)(E) Road	NEPA, 106	Awarded Northland WO to perform Cultural Survey of (b) (7)(E) of existing (b) (7)(E) road located in (b) (7)(E) Station AOR - portions of road are located on (b) (7)(E)
(b) (7)(E)	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E)	CATEX/SHPO and tribes	just starting, lease for land access for (b) (7)(E)
(b) (7)(E)	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E)	CATEX/SHPO and tribes	Need CATEX based off previous EA. Prepare asap



<b>Next Steps / Action Items</b>	<b>ENV SME</b>	<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initiated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final )</b>	<b>Project Completed? (Y/N)</b>
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<p>Per discussions with (b) (6), (b) (7)(C) CBP may execute the required SEA in-house.</p>	<p>(b) (6), (b) (7)(C)</p>	<p>12/14/15</p>						
<p><b>Next Steps / Action Items</b> Waiting on formal requirements approval by OBP so they can be incorporated into a letter of intent.</p>	<p><b>ENV SME</b></p>	<p><b>Date Updated</b></p>	<p><b>FME#</b></p>	<p><b>In FITT?</b></p>	<p><b>Env Action Initiated?</b></p>	<p><b>Env Action Title</b></p>	<p><b>Completion Date (Anticipated/Final )</b></p>	<p><b>Project Completed? (Y/N)</b></p>
<p>(b) (6), (b) (7)(C) provided ENV language for (b) (7)(E) and (b) (7)(E) LOIs, draft LOI currently being reviewed by PMO prior to submission to (b) (7)(E)</p> <p>Meeting on the (b) (7)(E) scheduled for 9/13/12 to meet with (b) (7)(E) and review upgrades to (b) (7)(E) and (b) (7)(E)</p> <p>(b) (6), (b) (7)(C) advised to begin NEPA clearance...Planning to create SEA in-house. Update on SEA as of 4/12/13 -- draft document is in great shape and is nearly complete and ready for internal review. (b) (6), (b) (7)(C) needs to issue WFO to have bio/cultural surveys of expanded footprint and incorporate results of surveys into SEA.</p> <p>(b) (6), (b) (7)(C) attending site visit requested by EPA to survey CBP drinking water</p>								
<p>Proceed with cleanup of firing range property separately from adjacent parcels while FUDS program investigates UXO on neighboring properties.</p>	<p>(b) (6), (b) (7)(C)</p>	<p>2/4/13</p>	<p>(b) (7)(E)</p>	<p>es</p>	<p>Yes</p>			

Post Final EA	(b) (6), (b) (7)(C)	12/14/15		Yes	Yes			
<b>ENV Complete</b> <b>Next Steps / Action Items</b>								
Survey Report submitted to (b) (7)(E) (b) (7)(E) in early March 2015. Continue to press (b) (7)(E) (b) (7)(E) for response on Report (b) (6), (b) (7)(C) to meet with (b) (7)(E) (b) (7)(E) on 8/11/15 regarding CR survey report	(b) (6), (b) (7)(C)	Date Updated 12/14/15	(b) (7)(E)	In FITT? es	Env Action Initiated? Yes	Env Action Title TI M&P on (b) (7)(E) (b) (7)(E)	Completion Date (Anticipated/Final )	Project Completed? (Y/N)
Covered by waiver (Check status with (b) (6), (b) (7)(C))	(b) (6), (b) (7)(C)	3/18/13						
Covered by waiver, ENV Stewardship Memo under preparation when funded (Check status with (b) (6), (b) (7)(C))	(b) (6), (b) (7)(C)	3/18/13						
Covered by waiver, ENV Stewardship Memo under preparation when funded (Check status with (b) (6), (b) (7)(C))	(b) (6), (b) (7)(C)	12/14/15						
Covered by waiver, ENV Stewardship Memo under preparation when funded (Check status with (b) (6), (b) (7)(C))	(b) (6), (b) (7)(C)	3/18/13						

Need to resolve Inventory Roadless Area issue with FS	(b) (6), (b) (7)(C)	12/14/15	N/A	No	No			
<b>Next Steps / Action Items</b>	<b>ENV SME</b>	<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initiated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final )</b>	<b>Project Completed? (Y/N)</b>
Sector issuing letter to Forest Service in Early April 2015 to discuss exemption of (b) (7)(E) from IRA								
Received comments from FS on Draft EA. CBP responded to comments and is seeking to set up teleconference the week of July 13, 2015 to review CBPs responses to FS comments.								
Teleconference held with FS the first week of August 2015 to review comments, (b) (6), (b) (7)(C) indicated on call that plan is to complete ENV planning in CY 2015. (b) (6), (b) (7)(C) has follow up call with FS on 8/13/15 to review each FS comment on EA and Bio Evaluation.								
CBP to prepare draft EA schedule and draft Cooperating Agency Agreement.	(b) (6), (b) (7)(C)	12/15/15	N/A	Yes	No	N/A		
Followup at project end	(b) (6), (b) (7)(C); (b) (6), (b) (7)(C)	1/12/15	N/A	No	No			
Agree on SOW with NPS and develop MOU	(b) (6), (b) (7)(C)	12/14/15						
Work Currently Unfunded	(b) (6), (b) (7)(C)	12/14/15						
WO awarded. First round of hydro-seeding occurred in late May 2015. Hydrseeding was completed the week of July 6, 2013	(b) (6), (b) (7)(C)	8/10/15						

CBP team working on Plan of Development as requested by (b) (7)(E)	(b) (6), (b) (7)(C)	12/14/15							
Verify RE status and issue WO for cultural survey.	(b) (6), (b) (7)(C)	12/14/15							
<b>Next Steps / Action Items</b>	<b>ENV</b>	<b>ME</b>	<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initiated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final )</b>	<b>Project Completed? (Y/N)</b>
WO for cultural survey has been awarded, waiting on RE clearance to perform surveys.									
Surveys completed and ENV is green for two of the three access roads. Decision was made to not pursue the third road due to landowner concerns.									
Draft Report submitted by Northland on 8/7/15	(b) (6), (b) (7)(C)	12/14/15							
SHPO concurrence finally received in November of 2015. SHPO agreed that CBP can plate site. Work to occur December 16, 2015. (b) (6), (b) (7)(C) coordinated for Northland monitor to be in place during site capping.									
	(b) (6), (b) (7)(C)	11/16/15							
working on draft	(b) (6), (b) (7)(C)	12/14/15							

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME
TI	YUM			(b) (7)(E) ESPC Border Lighting Retrofit	REC	New project information received. Preparing SHPO and tribal consultation letters. Preparing REC.	Prepare REC.	(b) (6), (b) (7)(C)
TI	YUM		Yuma	(b) (7)(E) (b) (7)(E)	EA	Construction underway. RECON performing monitoring. Fire management plan and revegetation plan complete.	Continue construction monitoring; mod needed for additional hours. Implement revegetation plan.	(b) (6), (b) (7)(C)
TI	YUM			(b) (7)(E) Fence Replacement	CATEX	CATEX signed. BUOW survey completed. Construction underway.	Implement BMPs in CATEX.	(b) (6), (b) (7)(C)
TI	YUM			(b) (7)(E) Border Road Improvements	MFR	Planning underway for (b) (7)(E) of border road improvement and maintenance east of the (b) (7)(E) POE. Area and type of activity likely covered by (b) (7)(E) waiver. Surveys and impact analysis of similar activity done as part of a 2005 EA.	(b) (5), (b)(6);(b)(7)(C) Prepare MFR.	(b) (6), (b) (7)(C)
Facilities	YUM			(b) (7)(E) FOB (b) (7)(E) (b) (7)(E)	REC	Reviewed previous environmental documents. Agreement to (b) (7)(E) (b) (7)(E) out of wilderness. (b) (6);(b)(7) agrees a REC will suffice for this activity. (b) (6);(b)(7) completed cultural survey and will complete Section 7 requirements.	Follow up with (b) (6);(b)(7) about survey and consultation results. Prepare REC.	(b) (6), (b) (7)(C)

## Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME
Facilities	YUM			(b) (7)(E) FOB well and leach field	REC	PRD reviewed and comments submitted. CPNWR completed arch survey; awaiting write-up.	Complete REC.	(b) (6), (b) (7)(C)
Facilities	YUM			(b) (7)(E) BPS Lease Renewal	CATEX	Request received. Preparing CATEX.	Complete CATEX and enter information into EPIIF.	(b) (6), (b) (7)(C)
TI	YUM			Complete environmental planning for establishment of replacement vegetation along (b) (7)(E) limitrophe	CATEX, Section 7, 404 Permit	Environmental compliance completed for CBP action	(b) (7)(E) wants CBP to complete environmental compliance for the proposed action (CBP has completed environmental compliance for its proposed action)	(b) (6), (b) (7)(C)
TI	YUM			Vegetation Treatment at (b) (7)(E)	CATEX	Draft CATEX under review by Yuma Sector		(b) (6), (b) (7)(C)

<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
12/14/15	(b) (7)(E)	Yes			12/30/2015	No
11/16/15	(b) (7)(E)	Yes			6/30/2016	No
12/14/15	(b) (7)(E)	Yes			12/31/2015	No
9/21/15						
8/10/15					9/30/2015	No



<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
11/16/15					12/31/2016	No
12/14/15		No	No			
6/2/14						
10/20/14						

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From:

(b) (6), (b) (7)(C)

To:

Cc:

Bcc:

Subject: RE: Bi-Weekly ENV Branch/EED Review Call

Date: Tue Jan 12 2016 12:16:50 EST

Attachments: Env Status - Facilities and TI Projects.xls

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(b) (6), (b) (7)(C)

Attached please find a copy of the updated project spreadsheet.

(b) (6), (b) (7)(C)

From: (b) (6), (b) (7)(C)

Sent: Monday, January 11, 2016 8:40 AM

To: (b) (6), (b) (7)(C)

Subject: RE: Bi-Weekly ENV Branch/EED Review Call

Ok thanks! Did you send out the spreadsheet to update??

From: (b) (6), (b) (7)(C)

Sent: Monday, January 11, 2016 10:35 AM

To: (b) (6), (b) (7)(C)

Cc:

Subject: RE: Bi-Weekly ENV Branch/EED Review Call

Thanks for letting us know (b) (6), (b) (7)(C). However, the meeting for today is being cancelled as (b) (6), (b) (7)(C) is in Yuma today. I'll be sending out a cancellation e-mail shortly.

(b) (6), (b) (7)(C)

-----Original Appointment-----

From: (b) (6), (b) (7)(C)

Sent: Monday, January 11, 2016 5:03 AM

To: (b) (6), (b) (7)(C)

Subject: Tentative: Bi-Weekly ENV Branch/EED Review Call

When: Occurs every 2 week(s) on Monday effective 1/11/2016 from 11:00 AM to 12:00 PM Pacific Standard Time.

Where: (b) (7)(E) PIN (b) (7)(E)

(b) (6), (b) (7)(C),

I have an appointment this afternoon so I am not sure if I will be on the call or not.

Regarding the range maintenance projects:

(b) (7)(E) work was completed last week. Equipment is being staged/moved to (b) (7)(E) and then to (b) (7)(E) over the next few weeks. (b) (7)(E) work is set to begin in the next few days. (b) (7)(E) work is planned for the end of January.

(b) (5), (b) (7)(E), (b)(6);(b)(7)(C)

(b) (6), (b) (7)(C)

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
Facilities			2013 EPCRA Reporting		Exploring methods to ensure facilities comply with EPCRA 312 reporting requirements by March 1, 2013.	Awaiting final submittal of forms by sectors to SERCs, LEPCs, fire departments, and PMO in April.	(b) (6), (b) (7)(C)	3/10/14
Facilities			Tucson Master Plan		Submitted comments to (b) (6), (b) (7)(E) on the Statement of Work and environmental questionnaire to develop the Tucson sector master plan.	Comments submitted 1/30/2013. Next step: Participate as sustainability sme in the development of the master plan.	(b) (6), (b) (7)(C)	3/18/13
Facilities	TCA	Multiple	Environmental Compliance Support		All facility visits conducted, awaiting final report.	Final report received, deficiencies closed in TRIRIGA, one follow-up visit still pending.	(b) (6), (b) (7)(C)	7/13/15
Facilities			(b) (7)(E) Design Build		Design kickoff meeting is scheduled for February 27 - 28, 2013.	Participated in Design and Partnering Session. Design meetings should begin in the coming weeks.	(b) (6), (b) (7)(C)	3/18/13
Facilities			(b) (7)(E) Master Plan and Design-Build Projects		Review all design-build award documents in preparation for the meeting.	Design meetings are held every Wednesday from 10am to noon EST	(b) (6), (b) (7)(C)	3/18/13
Facilities			(b) (7)(E) and (b) (7)(E) Solar Project		The decision was made to install ground based solar PVs at (b) (6), (b) (7)(E) FOB and HVAC at (b) (7)(E), (b) (7)(E) DHS performed an assessment of (b) (7)(E) FOB in January, 2013 and is scheduled for a follow-up visit in this month.	It appears the DHS has selected Tier II compliant generators and will install solar panels.	(b) (6), (b) (7)(C)	3/18/13
Facilities	Multiple		Firing Ranges		Contracts to perform maintenance at 5 locations are awarded. Field work planned for early 2016	There are now 5 contract packages as follows: (1) DRT (b) (7)(E) and (b) (7)(E) (2) LRT TCA (b) (7)(E) and (b) (7)(E) (3) BBT (b) (7)(E) (4) EPT (b) (7)(E) (5) (b) (7)(E) Anticipate all field work to begin early 2016 and final reports to be completed by Summer 2016. We will prepare a Memo for the File to document our NHPA compliance using the Air Force (b) (7)(E) NHPA PA.	(b) (6), (b) (7)(C)(b) (6), (b) (7)(C)	12/14/15
<b>PROJECTS</b>								
Facilities	TCA, EPT		Environmental Compliance Support		Project just awarded.	Will provide compliance support to facilities in TCA and EPT throughout the compliance tasker process (see line 25).	(b) (6), (b) (7)(C)	6/15/15
<b>CURRENT INITIATIVES</b>								
Facilities	Multiple		FY15 Compliance Deficiency Tasker		Tasker to resolve outstanding compliance deficiencies	Tasker issued. Due 9/1.	(b) (6), (b) (7)(C)	7/13/15

FME#	In FITT?	Env Action Initiated?	Env Action Title

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME
Facilities	BUN	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) BPS - new station	EA	Final EA routed for signature	Finalize EA and Route FONSI for USAF and CBP signature	(b) (6), (b) (7)(C)
Facilities	BUN	(b) (7)(E)	(b) (7)(E)	Facility Modification	CATEX	SHPO consultation initiated 7/14/15. Finding of No Adverse Effect issued 7/23/15. CATEX pending.	Draft and finalize CATEX.	(b) (6), (b) (7)(C)
Facilities	BUN	(b) (7)(E)	(b) (7)(E)	Facility Modification	CATEX	SHPO consultation initiated 7/14/15. Finding of No Adverse Effect issued 7/23/15. CATEX completed and executed 8/13/15.	Environmental work complete. No further action required. Construction scheduled for Spring 2016.	(b) (6), (b) (7)(C)

Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
12/11/15	(b) (7)(E)	Yes	Yes	Environmental Assessment		
7/27/15		No	No	(b) (7)(E) BPS Porch and Siding Replacement.		
9/30/15		No	No	(b) (7)(E) BPS Porch and Siding Replacement.		

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)
TI	DRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Cane Veg Removal	CATEX, FWS	FWS letter provided to FWS on 2/28/14 Followed up with FWS on 3/10/14 Sent SHPO LTR on 3/11/14	CATEX completed 5/7/14 – Provided to PM/COR. FWS consultation resulted in requirement to leave a narrow connectivity corridor, currently working with Sector on identifying area to conserve per FWS consult. (b) (7)(E) to visit project site September 3 & 4, 2014 to discuss corridor with PM/COR. [Confirmed with PM/COR that conservation connectivity corridor will be maintained directly along the (b) (7)(E) Cane in the conservation corridor (b) (7)(E) ]	(b) (6), (b)	12/14/15					
TI	DRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Veg Clearing	CATEX, FWS	Wait on response from FWS on (b) (7)(E) veg removal and then follow up with FWS on (b) (7)(E) request. (b) (7)(E) project is higher priority than (b) (7)(E)		(b) (6), (b)	12/14/15					
TI	DRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E)	CATEX, 106	Visited (b) (7)(E) 1st week of April	(b) (7)(E) of existing roads on the (b) (7)(E) where ENV cleared in December 2015, FITT has been updated.	(b) (6), (b)	12/14/15					
TI	DRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E)	CATEX, 106	Visited (b) (7)(E) 1st week of April	Received requirements from Baker GIS team in early May 2015. Need to issue cultural WO to review roads.  Estimate received, waiting on confirmation from DRT TI PM/COR that landowners will allow for survey. Permission from landowner to conduct Cultural surveys on the (b) (7)(E) could not be obtained at this time. The original cultural survey WO included requirements for the (b) (7)(E) -- he work for the (b) (7)(E) was complete in 4th quarter of CY2015, work for the (b) (7)(E) has not yet occurred.	(b) (6), (b)	12/14/15					



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FAC	DRT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Expansion	EA	(b) (5), (b) (6) participated in telecon the week of Jan 20th to discuss requirements for checkpoint expansion. (b) (5)  This checkpoint is included in the broader Texas Checkpoint safety project, (b) (5), (b)(6);(b)(7)(C)  Environmental Contract Awarded to HDR  HDR targeting week of April 20th to perform survey work...HDR provided background info for Sector Vetting to (b) (5), (b) (6) on 4/6/15  (b) (5), (b) (6) circulated draft EA to project team for review the last week of May. (b) (5), (b) (6) to review draft EA the first week of June and provide comments back to HDR.	Draft EA is currently on public review through July 29.  Final EA routing package to be circulated this week (8/10) for OBP/EED Signature  EA and FONSI has been completed. This project is ENV green.	(b) (5), (b) (6)	12/14/15					
TI	DRT			(b) (7)(E) - New TIMR requirements	TIMR EA or Existing CATEX	Baker GIS forwarded a new requirement for clearance known as (b) (7)(E). This road appears to (b) (7)(E) in the vicinity of (b) (7)(E) (b) (7)(E) If the road is on (b) (7)(E) (b) (7)(E) it is ENV clear via existing CATEX, if road is (b) (5).	Waiting for confirmation from Baker on who submitted the requirement and when? Waiting on clarification from RE regarding whether the road is on the (b) (7)(E) or is on (b) (5)	(b) (5), (b) (6)	12/14/15					
FAC	DRT	(b) (7)(E)		Renovate (b) (7)(E) Checkpoint	CATEX/REC or EA	Received PRD week of July 6 h. PRD call to be held 7/15/15  Work Order for EA and Phase 1 approved 11/27/15	Waiting on ROE-S in order to proceed with ENV survey work	(b) (5), (b) (6)	12/14/15					
FAC	DRT			(b) (7)(E) - Demolish Modulators	CATEX/REC	Received requirements from PM on 7/10/15. Project also includes the construction of a new processing office which was received by PM on 12/1/15.	SHPO letter sent on 12/2/2015	(b) (5), (b) (6)	12/14/15					
FAC	DRT			Disposal of Old station and Checkpoint	CATEX/106/Due Diligence	Work order issued for phase 1 ESA of old (b) (7)(E) BPS and checkpoint. Final phase 1 ESA was completed and delivered by HDR. Section 106 coordination initiated on 12/1/2015.	Complete 106 and then finalize CATEX	(b) (5), (b) (6)	12/14/15					

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FAC	DRT	(b) (7)(E)	(b) (7)(E)	Install Emergency Generator	CATEX/106	NEPA and 106 have been completed		(b) (6), (b) (7)(C)	12/14/15					
TI	DRT	(b) (7)(E)	(b) (7)(E)	TIMR - Maintain road and Boat Ramp for (b) (7)(E)	CATEX/106	(b) (6), (b) (7)(C) visited the road and boatramp with station personell and TI PM/COR in November of 2015. Waiting for requirments to be trimmed and routed through FITT for clearance.		(b) (6), (b) (7)(C)	12/14/15					
(b) (7)(E)	DRT	(b) (7)(E)	(b) (7)(E)	New site	CATEX/SHPO/Trie	draft catex prepared, sent SHPO and tribe	waiting on SHPO due 01/07/16	(b) (6), (b) (7)(C)	12/14/15					

<b>Project Completed ? (Y/N)</b>

Project Completed ? (Y/N)

<b>Project Completed ? (Y/N)</b>

Environmental Status - Facilities and TI Projects

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Facilities	DTM	(b) (7)(E)	(b) (7)(E)	Detroit Sector - Master Plan	Master Plan	Weighing alternatives now.	
				(b) (7)(E) BPS	SEA	(b) (5) for station.	Work with design team to evaluate potential. No alternative energy will be completed for this project. No further action.
Facilities	DTM	(b) (7)(E)		GSA leased property where we are adding parking and upgrades to the building.	REC	Were unable to find GSA EA for station construction. Are proceeding with NEPA coverage for current undertakings.	Cultural and ecological work awarded

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FAC	DTM	(b) (7)(E)	(b) (7)(E)	Sector HQ MCA	CATEX, SHPO	Repape lighting, repair sidewalks, remove asbestos, install (b) (7)(E)	<p>(b) (6), (b) (7)(C) received PRD on 4/24/14. Held intial discussions with Sector Facility Manager (b) (6), (b) (7)(C) on work</p> <p>Reached out to (b) (7)(E) and obtained a copy of (b) (7)(E) Integrated Cultural Resource Plan. Plan ndicated that DTM SHQ is a (b) (7)(E) (b) (7)(E)</p> <p>Next step is for (b) (6), (b) (7)(C) to submit (b) (7)(E) initiation form--following receipt of the form, (b) (7)(E) ENV staff will provide recomendations on environmetnal clearance rquirements to include whether we can utilize thier existing Section 106 PA</p> <p>(b) (6), (b) (7)(C) requires re-engagement with PM (8/10/15), prior to (b) (6), (b) (7)(C) departure she had requested that we place this on hold pending her notification to (b) (7)(E) regarding proposed scope of work.</p>

**Environmental Status - Facilities and TI Projects**

<b>Program Office Lead</b>	<b>Sector</b>	<b>Station</b>	<b>City</b>	<b>Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)</b>	<b>NEPA Action / Other Compliance</b>	<b>Status</b>	<b>Next Steps / Action Items</b>
Facilities	DTM	BPSHQ	Detroit	Stormwater Investigation	Stormwater	Sector requested investigation of large amounts of standing water, lack of drainage at the facility	Survey completed, remote camera investigation of sanitary sewers to follow.



ENV SME	Date Updated	FME#	In FITT?	Env Action Initated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
(b) (6), (b) (7)(C)	4/1/13		No - Supposed to be in the next month	N/A - We are not doing separate env like NEPA for this planning.			
(b) (6), (b) (7)(C)	10/28/13		Yes	Yes			
(b) (6), (b) (7)(C)	6/29/12		No				

ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
(b) (6), (b) (7)(C)	8/10/15						

<b>ENV SME</b>	<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
(b) (6), (b) (7)(C)	7/13/15						

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Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title
TI	EPT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) drainage repair and replace gacy fence	EA/106/WUS	Work Order for EA, Cultural Survey, Bio, WUS awarded to Northland on May 20.  Cultural Surveys executed May 27	Kick-off meeting tentatively scheduled for June 2  Bio/WUS surveys to occur first week of June  Received EED comments on 7/10/15  Draft EA will be submitted for web-posting on 7/14/15. Public Review begins July 20, 2015.  EA/FONSI completed. This project is ENV Green.	(b) (6), (b) (7)(E)	12/14/15	(b) (7)(E)	Yes	No, this is a study only effort at this point...once it transitions to an actual TI construction project, ENV action will be initiated.	
TI/M&R	EPT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Crossing [MILCON]	CATEX/404	Project involves using military constructon to re-establish a crossing over an irrigat on canal (b) (7)(E) SOW calls for installing culvert in the irrigation canal, and installing gate to block public access or crossing.  (b) (6), (b) (7)(E) reviewed USACE design drawings the week of Feb 16, 2015	(b) (6), (b) (7)(E) provided comments on PRD 12/8/11...EED has reviewed and approved 106 coordination letters for dissemination to SHPO on March 22.  (b) (6), (b) (7)(E) visited site week of April 16th, straightforward project with minimal impact. No effect to listed species.  CATEX has been finalized and distrubied to PM  Issued WO to Northland in early September to conduct phase 1 ESAs of RE requirments...Also ordered cultural suvey of access road--Waiting on ROE-SE.	(b) (6), (b) (7)(E)	12/14/15	(b) (7)(E)	Yes	Yes	EPT (b) (7)(E) [MILCON]
TIMR	(b) (7)(E)	(b) (7)(E)		TIMR	EA	IAA between CBP and NM (b) (7)(E) for cost recovery executed in September 2014  Revised EA/BA provided to (b) (7)(E) for review and comment on September 19, 2014--(b) (7)(E) agreed on a one month review period.  (b) (6), (b) (7)(E) held telecon w th (b) (7)(E) on 12/12/14 to discuss (b) (6), (b) (7)(E), (b) (7)(E)  NM TIMR began public review on March 16, 2015  Final EA to be routed for signature in Early June 2015. EA has been signed by OBP - Currently Pending FME Signature.  NM (b) (7)(E) is drafting thier own FONSI off of CBP EA (Update from (b) (7)(E) on 8/6/15), (b) (7)(E) will post EA and FONSI on (b) (7)(E) website for 30 days and then will sign (b) (7)(E) FONSI. This action was completed, minima comments recieved	Amended ROW application and revised EA/BA submitted to (b) (7)(E) on 12/20/13  Revised Cooperating Agency MOU sent to (b) (7)(E) on 8/20/12. Discussed with (b) (7)(E) the desire to have executed MOA by 8/31.  DOI HQ (b) (6), (b) (7)(C) requested in-person meeting at (b) (7)(E) office in Las Cruces on 9/25.. (b) (7)(E) employees reached out to (b) (6), (b) (7)(E) to request smaller sess on in advance of large CBP/DOI HQ meeting. Smaller meeting to occur 9/5 in Las Cruces--(b) (6), (b) (7)(E) and EPT PLLA to attend.  9/25/12 meeting went well.. (b) (7)(E) will approve work via ROW (b) (5)  (b) (6), (b) (7)(E) any action tems resulted from meeting which are being tracked sepearatly to this spreadsheet.  Recieved (b) (7)(E) lawyer comments on cooperating agency MOU and will revise and finalize MOU the week of 10/30/12  (b) (5), (b) (7)(E), (b) (6), (b) (7)(C)	(b) (6), (b) (7)(E)	12/14/15				

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	EPT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Mowing & (b) (7)(E) Maintenance MOAs		Participate in call with USIBWC on 7/9/13 to discuss finalizing IAA to support (b) (7)(E) mowing.  IAA's to be executed after the start of FY14  (b) (6), (b) (7)(E) participated in internal call on (b) (7)(E) mowing IAA on 10/25/13  Need to determine who has lead on this act on given (b) (6), (b) (7)(C) retirement	Participated in call on 7/19 with IBWC..IBWC indicated on the call that they are open to BPFTI using TIMR contractor to complete required (b) (7)(E) Mowing--very good news for BPFTI. (b) (6), (b) (7)(E) to work with Sector PMO and PM/COR to create shapefiles to provide to IBWC identifying priority mowing areas. IBWC to provide (b) (7)(E) with shapefiles identifying city of (b) (7)(E) designated "no mow" zones. Work to be coordinated through (b) (7)(E) Mowing MOA.  Similar to mowing, IBWC has agreed in principal to allow BPFTI to maintain (b) (7)(E) road with TIMR contractor. (b) (6), (b) (7)(E) to produce CATEX to clear M&R of (b) (7)(E) road, simple CATEX involves blading of (b) (7)(E) road.  BPFTI delegation heading to USIBWC headquarters in El Paso in February 2015 to hammer out MOU/MOAs	(b) (6), (b) (7)(E)	12/14/15				
	EPT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) - Support relocation (b) (7)(E) existing due to (b) (7)(E) project	CATEX	(b) (6), (b) (7)(E) reviewed PRD 5/14/14  Team call to review PRD with RE and OCC was requested by (b) (6), (b) (7)(E) the last week of May 2015	(b) (6), (b) (7)(E) to get additional info from TMRP and get TXDOT ENV POC to see what coordination has been completed to date.  TXDOT contacted EED cultural specialist in late August to discuss the scope of the project and weather it includes the relocation of several light poles on IBWC lands. (b) (6), (b) (7)(E) followed up with	(b) (6), (b) (7)(E)	12/14/15				
FAC	EPT	(b) (7)(E)	(b) (7)(E)	Firing Range Study	CATEX	Reviewed PRD for firing range study at (b) (7)(E) Range. Study will look at what upgrades are required to make (b) (7)(E) range functional and will also assess other options that may be available to support EPT range needs (i.e. look at private vendors).		(b) (6), (b) (7)(E)	12/14/15				
(b) (7)(E)	EPT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) MOU and POAM	Research	MOU may expire. Prepared POAM.	Start on actions in 2016.	(b) (6), (b) (7)(E)	12/14/15				
FAC	EPT	(b) (7)(E)	(b) (7)(E)	Replace Firing Range Floor	CATEX/106	SHPO consult routed early December 2015		(b) (6), (b) (7)(E)	12/14/15				
FAC	EPT	Various	(b) (3)	(b) (3)	CATEX/ SW PA	(b) (6), (b) (7)(E) completed CATEXs for MCAs that will be covered by SW PA and loaded them to FITT in early December 2015. (b) (6), (b) (7)(E) will route CATEXs for signature this week.		(b) (6), (b) (7)(E)	12/14/15				
FAC	EPT	Sector HQ	(b) (7)(E)	Replace Rooftop HVAC	CATEX/106	EED indicated that project could not proceed under SW PA. As such consultation with SHPO was initiated in November 2015 and has been completed.	CATEX and 106 have been completed.	(b) (6), (b) (7)(E)	12/14/15				

<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>

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FAC	GFN	(b) (6), (b) (7)	(b) (7)(E)	Clean up indoor firing range	NEPA, RCRA	Received requirements on 6/26/14	<p>(b) (5)</p> <p>Reviewed GSA SOW for Indoor Firing Range investigation, provided feedback to CBP PM.</p> <p>BPFTI received report from industrial hygenist the first week of April 2015, currently under review by (b) (6), (b) (7)(C)</p> <p>Recieved updated lead report the last week of June 15, (b) (6), (b) (7)(C) provided comments in early July.</p>	(b) (6), (b) (7)(C)



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12/14/15	(b) (7)(E)					

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(b) (7)(E)	HVM			(b) (7)(E) Site	CatE s	received notice from BP that site was no longer acceptable with (b) (7)(E) BP to set up follow up call to determine new site location; SOW cancelled	complete ENV clearance for site location once selected	(b) (6), (b) (7)(C) (b) (6), (b) (7)(C)	6/1/15
Facilities	HVM	(b) (7)(E)		(b) (7)(E) BPS Lease Termination	CATEX	Project information received. Preparing CATEX and Site Summary Report.		(b) (6), (b) (7)(C)	6/2/14

<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initiated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
	Yes	Yes			

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(b) (7)(E)	HLT	All	Many	Helo Sites w some new build, some improvements	CATEX and/or EA/SHPO/arch surveys/Bio	Gathering documents for each site. Had phone w (b) (6), (b) (7)(C) Met w/ (b) (6), (b) (7)(C) to discuss SOW 031815. Spoke w/ (b) (6), (b) (7)(C) 040215	WSPD is to provide us with drawings/env info. Prepared env matrix. Continue support as needed.	(b) (6), (b) (7)(C)
(b) (7)(E)	HLT	(b) (7)(E)	(b) (5)	CATEX and state permit	CATEX/SHPO	Working with (b) (6), (b) (7)(C) at State to complete LURC permit. Site being improved.	Look at previous permit to see what needs updated. Find out about avoidance for thrush.	(b) (6), (b) (7)(C)
(b) (7)(E)	HLT	(b) (7)(E)	(b) (7)(E)	CATEX for (b) (7)(E)	CATEX/SHPO	Prepared draft CATEX and sent SHPO, USFWS letters. Sent SHPO a second time.	Have USFWS concurrence. Waiting on SHPO.	(b) (6), (b) (7)(C)

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12/14/15						
12/14/15						
12/14/15						

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Cane Removal	LRT	(b) (6), (b) (7)(E)	(b) (7)(E)	Cane Removal Annual Report	Annual Report (5 years) USFWS accepted finding of mostly no temporal loss of habitat and "act of nature" for remaining planting failures	Contract let to GSRC (\$300K), Repairs complete, replanting complete, Revegetation analyses submitted for routing 2/24/2012 Field Sampling for Year 2 report completed May 18	Fourth Year Monitoring Report transmitted to FWS in early October 2014. Letter seeks concurrence from FWS to terminate monitoring, thus relieving CBP from the fifth and final year of monitoring.  FWS did not concur with discontinuing monitor. (b) (6), (b) (7)(E) held telecon with FWS on July 8, 2015 to discuss this project. FWS suggested that (b) (5)	(b) (6), (b) (7)(E)	8/10/15	None	No	No	
Facilities	LRT	(b) (6)	(b) (6)	BPS	EA/FONSI	met with USFWS on 10/16/14 to discuss path forward, waiting for information from CBP PM on (b) (5)	(b) (6), (b) (7)(E) and (b) (6) spoke with (b) (6), (b) (7)(E) about project. (b) (6) spoke with (b) (6), (b) (7)(E), (b) (5), (b) (6), (b) (7)(E)	(b) (6), (b) (7)(E)	12/8/14		Yes		
Cane Removal	LRT	(b) (6), (b) (7)(E)	(b) (6), (b) (7)(E)	Re-vegetation Road Projects - Re-vegetation		irrigation system installed, plantings complete	monitor	(b) (6), (b) (7)(E)	12/11/15	None	No	No	
	LRT	(b) (6), (b) (7)(E)	(b) (6), (b) (7)(E)	installations for maintenance and repair	REC, SHPO and (b) (7)(E) coordination required		(b) (7)(E) removed from above (b) (7)(E) action due to CR sensitivity potentially eligible for listing, but field work revealed no indications. We will file with the SHPO for no eligibility for listing and therefore no potential to affect, and no need for on-site monitoring.	(b) (6), (b) (7)(E)	12/24/13				
	LRT	(b) (6), (b) (7)(E)	(b) (6), (b) (7)(E)	MIL CON road construction (b) (7)(E) AKA (b) (6), (b) (7)(E) All Weather Road	EA/CWA/Sec 106/Sec 7	Team site visit December 17; Draft SWPPP sent to team for review; Draft EA should be submitted to CBP on 12/11/15 for internal review and approval, updates based on 90%	approve EA and prepare for public distribution	(b) (6), (b) (7)(E)	12/11/15				
TI	LRT	(b) (6)	(b) (6)	TIMR Roads	CATEX/CWA 404 Section 106	Complete ENV clearances under TX TIMR EA (b) (7)(E)	conduct cultural resources surveys and consultations as necessary	(b) (6), (b) (7)(E)	12/11/15				
TI	LRT	(b) (6)	(b) (6)	Boat Ramp-Sandbar Removal	CATEX/CWA 404/ESA	received follow up questions from TPWD, workign to respond to questions	finalize ARRP and send to TPWD	(b) (6), (b) (7)(E), (b) (6), (b) (7)(E)	12/11/15				
TI	LRT	(b) (6), (b) (7)(E)	(b) (6), (b) (7)(E)	all	CATEX	continue to coordinate with OTIA, add CATEXs to FITT as available		(b) (6), (b) (7)(E)	12/11/15		multiple RE #s		
TI	LRT	(b) (6)	(b) (6)	OTIA sites and access roads, OTIA	CATEX/CWA 404 Section 106	waiting on RE access	complet CR survey, SHPO consultation, 404 compliance, NEPA clearance	(b) (6), (b) (7)(E)	12/11/15				

Completion Date (Anticipated/Final)	Project Completed ? (Y/N)

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)
TI	BBT	(b) (7)(E)	(b) (7)(E)	TIMR (b) (7)(E) of road M&R on (b) (7)(E)	CATEX	Received call on 4/17 from BBT PM/COR informing me that (b) (7)(E) is currently maintaining (b) (7)(E) of road within the (b) (7)(E) on a reimbursable basis via an existing IAA. Now that (b) (7)(E) Contract has been awarded, BPFTI wants to complete this road maintenance using TIMR contractor. PM setting up meeting between (b) (6), (b) (7)(E) and (b) (7)(E) (b) (6), (b) (7)(C) staff to determine environmental compliance needs to support the proposal.  Real Estate is working with PM/COR on providing a draft SUP for the (b) (7)(E) to review	(b) (6), (b) (7)(C) reached out to (b) (7)(E) ENV POC on 5/8/13 to set up call to discuss ENV planning to support request. (b) (6), (b) (7)(C) will attempt to contact (b) (7)(E) ENV POC again next week and if unsuccessful will engage PM/COR to facilitate communications.  (b) (6), (b) (7)(C) contacted (b) (6), (b) (7)(C) from (b) (7)(E) several times over the past few weeks. Will continue to try and engage (b) (6), (b) (7)(C) for the remainder of this week and then will engage BBT Sector PM/COR for assistance in setting up a meeting.  (b) (6), (b) (7)(C) notified (b) (7)(E) PM/COR on 6/24/13 of difficulty getting call back from (b) (7)(E) ENV and suggested BPFTI set up larger meeting/telecon with (b) (7)(E) to discuss the overall effort. PM/COR concurred with advice and indicated he will set up a meeting.  (b) (7)(E) provided feedback that they do not want CBP contractor executing requirements on the the (b) (7)(E). As such, current understanding is that CBP will utilize CTIMR to provide materials (crushed rock) to the	(b) (6), (b) (7)(C)	8/10/15					
FAC	BBT	(b) (7)(E)		Asphalt Replacement	CATEX, 106	Received Requirements from PM first week of April '15	CATEX Complete	(b) (6), (b) (7)(C)	8/10/15					
FAC				Asphalt Replacement	CATEX, 106	Received Requirements from PM first week of April '15	CATEX Complete	(b) (6), (b) (7)(C)	8/10/15					
FAC	BBT	(b) (7)(E)		Dispose of old (b) (7)(E) BPS	CATEX, 106, Due Diligence	WO for phase 1 sent to LMI for an estimate  LMI completed site visit for Phase 1 in June of 2015, currently waiting for report submittal  Draft report submitted in early August 2015, (b) (6), (b) (7)(C) to review Phase 1 ESA this week.	Phase 1 ESA came back with a recognized ENV site condition. As such, BPFTI will proceed with compelling soil removal and testing for the burn pit area recognized as environmental condition. GSA requested that CBP resolve issue prior to disposal. (b) (6), (b) (7)(C) is drafting a WO for the soil removal and testing and hopes to route for an estimate the week of 12/14/15.	(b) (6), (b) (7)(C)	12/14/2015					
TI	BBT	(b) (7)(E)		Maintain approximately (b) (7)(E) of (b) (7)(E) access roads	CATEX, 106	(b) (6), (b) (7)(C) received SHPO concurrence on action on 6/10/15.  Notified TI PM/COR that requirement is green and covered via Texas TIMR EA		(b) (6), (b) (7)(C)	8/10/15					
(b) (7)(E)	BBT	(b) (7)(E)	(b) (7)(E)		CATEX/SHPO and tribes	just starting. May have archeology in area.		(b) (6), (b) (7)(C)	11/16/15					



Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)
TI	BBT	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Road - TIMR	Section 106	Project includes maintenance and repair of between (b) (7)(E) of existing roads known as (b) (7)(E) and associated access road.	(b) (6), (b) (7)(C) is confirming the requirements that were routed through FITT clearance process accuratley reflect all the requirements. This is coordiation with the station and FITT GIS began in early December 2015.	(b) (6), (b) (7)(C)	12/14/15					
TI	BBT	(b) (7)(E)	(b) (7)(E)	Boat Ramps and Access Roads in (b) (7)(E) AOR - TIMR	Section 106	Project includes maintenance and repair of apprximately (b) (7)(E) boat ramps and (b) (7)(E) of maintenance and repair. (b) (6), (b) (7)(C) conducted site visit with station personell and sector TI PM/COR in November of 2015.	(b) (6), (b) (7)(C) is confirming the requirements that were routed through FITT clearance process accuratley reflect all the requirements. This is coordiation with the station and FITT GIS began in early December 2015.	(b) (6), (b) (7)(C)	12/14/15					
FAC	BBT	(b) (7)(E)	(b) (7)(E)	Lease renewal	CATEX	CATEX compelted		(b) (6), (b) (7)(C)	12/14/15					
FAC	BBT	(b) (7)(E)	(b) (7)(E)	Lease renewal	CATEX	CATEX completed		(b) (6), (b) (7)(C)	12/14/15					
FAC	BBT	(b) (7)(E)	(b) (7)(E)	Lease renewal	CATEX	CATEX compelted		(b) (6), (b) (7)(C)	12/14/15					

Project Completed? (Y/N)

Project Completed? (Y/N)

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
(b) (7)(E)	NLL	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) lease rooftop sites	CATEX, SHPO	Draft CATEX working. Need more info from (b)(6);(b)(7)(C)	Followup wi (b)(6);(b)(7)(C)	(b) (6), (b) (7)(C)	11/16/15
(b) (7)(E)	NLL	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) lease land	CATEX, SHPO	Draft CATEX working. Need more info from (b)(6);(b)(7)(C)	Followup wi (b)(6);(b)(7)(C)	(b) (6), (b) (7)(C)	11/16/15

<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>

**Environmental Status - Facilities and TI Projects**

<b>Program Office Lead</b>	<b>Sector</b>	<b>Station</b>	<b>City</b>	<b>Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)</b>	<b>NEPA Action / Other Compliance</b>	<b>Status</b>	<b>Next Steps / Action Items</b>	<b>ENV SME</b>	<b>Date Updated</b>

<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initiated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
Facilities	New Orleans	Sector HQ	New Orleans	Move/Consolidation of Sector HQ	GSA completing NEPA; CBP CATEX once GSA CATEX Complete	CATEX complete; need to conduct due dilligence and CATEX for parking space rental once location determined		(b) (6), (b) (7)(C)	6/9/15
Facilities	New Orleans	(b) (7)(E) BPS	(b) (7)(E)	Consolidation of CBP into GSA leased facility owned by (b) (7)(E) (b) (7)(E)	Addition of (b) (7)(E) to proposed action	REC previously prepared, need to determine if additional NEPA need for (b) (7)(E) No update yet.	Need to determine if additional NEPA need for (b) (7)(E)	(b) (6), (b) (7)(C)	1/6/2014
Facilities, Air and Marine	New Orleans	(b) (7)(E)	(b) (7)(E)	For the lease of unoccupied and undeveloped land parcel adjacent to the south side of the (b) (7)(E) facility to support critical mission requirements and capabilities	CATEX/SHPO	waiting for information from PM to begin environmental clearance		(b) (6), (b) (7)(C)	8/10/2015
(b) (7)(E)	NLL	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) lease	CATEX, SHPO	Draft CATEX done, SHPO sent (no tribal). Have concurrence.	document reason for floodplain	(b) (6), (b) (7)(C)	11/16/15
(b) (7)(E)	NLL	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) lease	CATEX, SHPO	Draft CATEX done. SHPO complete	finalizing CATEX	(b) (6), (b) (7)(C)	12/14/15



FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
(b) (7)(E)					


Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title
TI	RGV	(b) (7)(E)	(b) (7)(E)		(b) (7)(E)	This project was extensively discussed with IBWC the week of Feb. 9th, 2015...Construction start date is projected for August 2015. TX DOT is still working to complete EA.  NEPA/ BO renegotiation  Received PRD from USACE ENV in May of 2014, reviewed by (b) (6), (b) (7)(E) Awaiting next steps	(b) (5), (b) (7)(E)  New BO by SHA.	(b) (6), (b) (7)(E)	12/14/15		None	No	No
	RGV	(b) (7)(E)		(b) (7)(E) Border and Access Road Repairs	CATEX/ 404 - Nationwide General Permits/SHPO/Coordination with IBWC, USFWS and USDA	(b) (7)(E) Road was realigned in March of 2015  Final rotation is currently under way, last day of construction is April 17th...ENV needs funds to address Haz Waste Issue--Issue has been resolved. PCD funded.  <b>Project is complete, however need to make sure that USACE/CBP execute payment for FWS reveg/restoration. Work continues with USACE/FWS to coordinate funds transfer. (b) (6), (b) (7)(E) approved CR in FITT for funds transfer in early December 2015.</b>	Arch site located by FWS biologist the week of Jan 12th in the arroyo work area. (b) (6), (b) (7)(E) issued WO to northland who visited site on Jan 19th, 2015. Northland recommend site not eligible and (b) (6), (b) (7)(E) secured SHPO concurrence that project may proceed as planned on January 20th, 2015.  ENV monitoring contract for FY15 deployment (2 rotations) has been awarded to Northland.  Kick-off Meeting to occur at (b) (7)(E) BPS on (b) (5)  CATEX for new water filling station for FY15 has been complete	(b) (6), (b) (7)(E)	12/14/15		None	No	No
TI	RGV			RGV (b) (7)(E) (b) (7)(E)	EA	(b) (5)  GSRC has accompanied USACE site walk and looks on two weekly visits to the field.  GSRC to begin conducting full blown surveys the last week of July 2015. Site Visit Request form submitted by (b) (6), (b) (7)(E) the Second week of July 2015. First round of surveys went well, current plan is to conduct second round of ENV surveys the week of 8/17/15.	ENV funds transferred from OTIA to BPFTI PMO ENV Branch on June 9, 2014... Project kick-off meeting scheduled for July 14-18 in RGV  Received update from CBP procurement on July 24, 2014--currently anticipate award of env contract on or around (b) (5)  (b) (5)  Contract awarded September 5, 2014!!  ENV Kick-off Meeting Held 9/22/14	(b) (6), (b) (7)(E)	12/14/15				
FAC	RGV			RGV (b) (7)(E) facilities and (b) (7)(E) (b) (7)(E)	CATEX	ENV provided language for PRD which was routed late May 2014 for signature.  (b) (6), (b) (7)(E) to complete CATEX/REC by January 1, 2015. Currently in process of compiling building history and NHPA adjacencies to support effect determination for additional (b) (7)(E) (b) (7)(E)	(b) (6), (b) (7)(E) sent SHPO letters for (b) (7)(E) facilities and (b) (7)(E) (b) (7)(E) on 8/12/14  SHPO Clearance received for (b) (7)(E) and (b) (7)(E) (b) (7)(E)  CATEX completed for (b) (7)(E) (b) (7)(E) in September '14--Signed CATEX provided to PM (b) (6), (b) (7)(E)  Waiting on confirmation of (b) (7)(E) (b) (7)(E) (b) (7)(E) (based on 15% design) before executing a CATEX for (b) (7)(E) (b) (7)(E)  CATEX for (b) (7)(E) Facilities and (b) (7)(E) (b) (7)(E) completed in November 2014	(b) (6), (b) (7)(E)	12/14/15				
TI	RGV			RGV (b) (7)(E) Legacy (b) (7)(E)	CATEX	ENV provided language for PRD which was routed late May 2014 for signature.	Review existing env documents to see if legacy upgrades already have existing coverage. (b) (7)(E), (b) (5)	(b) (6), (b) (7)(E)	12/14/15				

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title
TI	RGV	(b)	all	TIMR Roads	CATEX/CWA 404 Section 106	Complete ENV clearances under IX TIMR EA; coordinating with USACE to determine which roads can be cleared on (b) (7)(E) under SWPA	conduct cultural resources surveys and consultations as necessary	(b) (6), (b) (7)	12/11/2015				
TI	RGV	(b) (7)(E)	all	Continue to work with OTIA to complete ENV clearance for installation, operation, and M&R of (b) (7)(E) sites and access roads. OTIA completing CATEXs and BPFTI is providing support and adding final CATEXs to FITT	CATEX	continue to coordinate with OTIA, add CATEXs to FITT as available		(b) (6), (b) (7)	12/11/2015		multiple RE #s		
TI	RGV			(b) Proposed Boat Ramps in RGV	CATEX/CWA 404 Section 106	supporting development of PRDs and conducting environmental clearance for (b) proposed boat ramps in RGV, conducting site visit with RE and Engineering		(b) (6), (b) (7)	12/11/2015				
TI	RGV	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Boat Ramp	CATEX/CWA 404 Section 106	PRD in development, Northland on contract to complete CR survey, waiting for PRD and RE access	complet CR survey, SHPO consultation, 404 compliance, NEPA clearance	(b) (6), (b) (7)	12/11/2015				
(b) (7)(E)	RGV	(b) (7)(E)		(b) (7)(E)	CATEX/Phase I/SHPO	Completed WO. Did research on land.	provide support as needed. Draft CATEX.	(b) (6), (b) (7)	12/14/15				

Completion Date (Anticipated/Final)	Project Completed? (Y/N)

Completion Date (Anticipated/Final)	Project Completed? (Y/N)

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME
	SWB	(b) (7)(E)		SWB (b) (7)(E) New (b) (7)(E) (b) (7)(E) (b) (7)(E) Design & Construction	EA, to completed by OTIA, BPFTI to support ENV clearance as needed and review draft ENV documents	PRD being routed for approval; FAA awarded EA contract to GSRC; coordinating with OITA (b) (6), (b) (7)(C) regarding support needed from BPFTI on EA reviews	review draft ENV documents developed by OTIA	(b) (6), (b) (7)(C)

<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initiated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
11/16/15						

Facility Name	Location	Project Type	Status	Start Date	End Date	Comments



Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
TI	ELC			(b) (7)(E) Road Maintenance and Repair (includes (b) (7)(E) access road)	EA	Phase (b) (7)(E) complete. SOW for Phase (b) (7)(E) monitoring sent to Northland.	(b) (5)	(b) (6), (b) (7)(C)	12/14/15
TI	ELC			(b) (7)(E) Maintenance and Repair	REC	(b) (7)(E) requested special attention to this non-owned operational road. Discussed with (b) (7)(E) on June 3. (b) (7)(E), (b) (5) working real estate with Caltrans.	(b) (7)(E) supports this project and restoration of the impact areas outside of the roadway.	(b) (6), (b) (7)(C)	7/27/15
TI	ELC			(b) (7)(E) Barrier Maintenance and Vegetation Management	CATEX	Surveys complete. CATEX complete. Information entered into EPIIF.	Implement BMPs in CATEX.	(b) (6), (b) (7)(C)	12/14/15
TI	ELC			(b) (7)(E) Vegetation Management	EA	Request received for vegetation removal along (b) (7)(E) north of the border. Requirement not in FITT. EA needed due to known occurrence of and suitable habitat for (b) (7)(E) rail.	Await further instructions from OBP.	(b) (6), (b) (7)(C)	11/16/15

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
Facilities	ELC			(b) (6), (b) (7)(C) BPS UST Removal	CATEX	USTs removed. Closure report submitted to DTSC and EPA. Prepared SOW for additional site remediation measures. Working with RE to get LMI subcontractor access to the site.	Awaiting estimates from Contractors.	(b) (6), (b) (7)(C)	6/15/15
Facilities	ELC/Yuma	(b) (7)(E)	Multiple	CATEX needed	CATEX	on hold	participate in meetings as needed	(b) (6), (b) (7)(C)	11/16/15

FME#	In FITT?	Env Action Initated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
(b) (7)(E)	Yes	Yes	EA (b) (7)(E) (b) (7)(E) AWR Construction	12/31/2016	No
	No	No		12/31/2016	No
	Yes	No			
	No	No			

<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
	No	No		3/15/2016	No

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
Facilities	SDC	(b) (7)(E)		(b) (7)(E) Checkpoint Mitigation	EA/FONSI	NNIS removal mitigation and puncture vine removal ongoing. Another round of treatment completed in late September.	Incorporate puncture vine removal and eradication program into checkpoint landscaping contract or lease. Discuss SOW and path forward with CDFW and FWS.	(b) (6), (b) (7)(C)	11/16/15
Facilities	SDC	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) BPS	N/A	On-going UST cleanup	SVE and air sparge system installed. Additional GW wells installed off site for free product delineation. System operational since Oct. 2011. Ongoing GW monitoring and AS/SVE report reviews. Prepared EFL. VI report reviewed and requested changes (conf call 10/08/14). Reviewed revised VI report (DD 11/25/14). Additional VI report revisions were made. Conference call for VI 012215. Ctr making edits.	(b) (6), (b) (7)(C)	02/29/15
Facilities	SDC	(b) (7)(E)		(b) (7)(E) Checkpoint Upgrade (b) (7)(E)	EA/FONSI	Construction expected to begin in (b) (5).	Implement BMPs in EA and FONSI.	(b) (6), (b) (7)(C)	11/16/15
Facilities	SDC			(b) (7)(E) Checkpoint (b) (7)(E) Road and Interim Checkpoint (b) (7)(E)	REC	Consultation letter sent to USFWS; expecting response soon.	Complete REC for (b) (7)(E) road and temporary checkpoint.	(b) (6), (b) (7)(C)	11/16/15

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
TI	SDC			Gapfiller	SWPPP, SPCCP, and Re-vegetation Plan	401/404 permit applications submitted. 401 Certification held up due to CEQA consistency issues -- need CEQA addendum. 404 permit delayed with request for additional information. Got authorization and registered for data entry role in SMART.	Send permit checklist to TIMR for completion. Enter project information in SMART. Contract QSP to complete SWPPP and monitor SWPPP implementation during work.	(b) (6), (b) (7)(C)	2/18/14
TI	SDC			(b) (7)(E) Re-vegetation effort	Re-vegetation Plan	Year 4 maintenance ongoing. Monitoring conducted in early June. Monitoring report received and under review.	Work with (b)(6);(b)(7)(C) to remove equipment and material from temporary staging area and prepare it for revegetation.	(b) (6), (b) (7)(C)	9/21/15
TI	SDC			(b) (7)(E) Vegetation Management Plan	Re-vegetation Plan	Year 5 maintenance ongoing. Monitoring conducted in early June. Monitoring report received and under review.	Continue Year 5 maintenance and monitoring.	(b) (6), (b) (7)(C)	9/21/15
TI	SDC			(b) (7)(E) Real Estate Disposal	Phase 1 ESA and CATEX	Working with PMO Real Estate to transfer property through GSA. Sent letter documenting completion of wetland mitigation at (b) (7)(E) to Corps LA District. USFWS expressed interest in helping to transfer both properties.	(b) (6), (b) (7)(C) taking lead on GSA excess.	(b) (6), (b) (7)(C)	1/6/14

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
TI	SDC			(b) (7)(E) - JTF FY11 Project	ESP	Year 3 maintenance ongoing. Monitoring report received and under review.	Continue Year 3 maintenance and monitoring.	(b) (6), (b) (7)(C)	9/21/15
Other	SDC			Brand's Phacelia Annual Inventory	?	RECON completed Year 2 weed removal and monitoring. Survey complete. Final report submitted to USFWS. Annual meeting with working group held in October.	Implement Year 3 weed removal and monitoring.	(b) (6), (b) (7)(C)	11/16/15
TI	SDC			(b) (7)(E)(b) (7)(E) Brush Clearing	MFR/ESP	Request received for additional vegetation removal. Requirement not in FITT.	Prepare MFR for additional vegetation removal as necessary.	(b) (6), (b) (7)(C)	2/2/15
TI	SDC			(b) (7)(E) Maintenance	CATEX	USFWS concurrence received. Finalizing CATEX.	Enter information into EPIIF.	(b) (6), (b) (7)(C)	12/14/15
TI	SDC			(b) (7)(E) Road Maintenance	EA/FONSI	Request made by SDC for maintenance up to and potentially including wilderness. Support from the (b) (7)(E) USFWS, and CDFW. Requested input from (b) (6), (b) (7)(C)	Confirm TIMR requirement status. Send work order to Northland for estimate and begin scoping process.	(b) (6), (b) (7)(C)	4/14/14
TI	SDC	(b) (7)(E)		(b) (7)(E) Vegetation Control	EA/FONSI	Preliminary draft EA revised. IBWC agreed to be cooperating agency. BA and draft EA being prepared.	Send draft EA for public comment. Send out CZMA, 401 water cert, 402 aquatic herbicide, and 404 permit applications. Submit draft BA.	(b) (6), (b) (7)(C)	12/14/15

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME	Date Updated
TI	SDC			(b) (7)(E) Vernal Pool Impacts	REC	USFWS requested again assessment and mitigation proposal for (b) (7)(E) vernal pool impacts from BP operations. Discussed report with (b) (6), (b) (7)(C).	Negotiate mitigation with USFWS. Submit vernal pool report to USFWS.	(b) (6), (b) (7)(C)	12/14/15
TI	SDC			(b) (7)(E) (b) (7)(E) Vegetation Removal	MFR/ESP	Request received for additional vegetation removal around (b) (7)(E) Gate and (b) (7)(E). Requirement not in FITT.		(b) (6), (b) (7)(C)	9/21/15
Facilities	SDC			(b) (7)(E) Remediation	REC	Requirement received. Prepare REC.	Complete REC. Send letters to SHPO and tribes. Implement BMPs in REC.	(b) (6), (b) (7)(C)	11/16/15
Facilities	SDC			(b) (7)(E) Checkpoint Water Treatment System Installation	REC	Preliminary Design Report received conditional approval from DDW. NSF 61 certification documentation, final design, and NEPA documentation requested.	Provide additional materials. Prepare letters to USFWS, SHPO, and Tribes. Prepare REC.	(b) (6), (b) (7)(C)	6/29/15
Facilities	SDC	(b) (7)(E)	Multiple	UESC contract, CATEX needed	CATEX	Draft CATEX has been prepared and reviewed. Sent SHPO and tribal letter out.	waiting on SHPO/tribal timeframe	(b) (6), (b) (7)(C)	12/14/15



FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
(b) (7)(E)	Yes	Yes	SEA (b) (7)(E) Checkpoint Improvements	12/31/2017	No
(b) (7)(E)	Yes	Yes			
(b) (7)(E)	Yes	Yes	EA SDC (b) (7)(E) Checkpoint Upgrade	12/31/2015	No
(b) (7)(E)	Yes	Yes	EA SDC (b) (7)(E) Checkpoint Upgrade	12/31/2015	No

FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
	No	No			
(b) (7)(E)	Yes	Yes	ESP (b) (7)(E) Construction	12/31/2016	No
	No	No		8/1/2016	No
	No	No			

FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
(b) (7)(E)	Yes	Yes	Environmental Stewardship Plan for Construction, Operation, and Maintenance of Tactical Infrastructure, (b) (7)(E)	12/31/2017	No
	No	No		12/31/2018	No
	No	No			
	No	No		9/1/2015	No
	No	No			
	No	No		11/1/2015	No

FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
	No	No			
	No	No			
	No	No			
	No	No			

**Environmental Status - Facilities and TI Projects**

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME
TI/Fac?	SPW	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) BPS - (b) (7)(E) to support operations	CATEX	Met with (b) (7)(E) to identify level of environmental coordination needed for project (REC). OBP provided funding for cultural work. Mission Suport real estate to complete (b) (7)(E) permit.	Cultural work completed. Pending permit package from Mission Suport. SHPO provided concurrence on 04/01/13. (b) (7)(E) requests EA be prepared for operations and maint. Draft EA submitted to (b) (7)(E) awaiting comments.	(b) (6), (b) (7)(C)
TI				(b) (7)(E) Road Repair and Maintenance	EIS	Final proposed action identified. NOI in routing for approval. EIS chapters 1 and 2 with FS for review. SOW and IGCE for follow-on contract completed.	Submit BA to FWS. Complete MOA. Finalize NOI. Award follow-on contract. Update schedule. Circulate chapters 1 and 2 for internal review.	(b) (6), (b) (7)(C)
Facilities	HVM	(b) (7)(E)		Remove 4 10,000 gallon USTs	Montana Tank Closure	CATEX previously signed (2010)	Tanks removed. Analytical data imminent.	(b) (6), (b) (7)(C)
(b) (7)(E)	SPW			Lease and M&R of site	CATEX/SHPO	CATEX draft and SHPO done	followup with SHPO was due Oct 22	(b) (6), (b) (7)(C)

Date Updated	FME#	In FITT?	Env Action Initiated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
10/28/2013	(b) (7)(E)	Yes	No			
12/14/2015		No	No		12/31/2016	No
7/13/15						
11/12/15						

### Environmental Status - Facilities and TI Projects

<b>Program Office Lead</b>	<b>Sector</b>	<b>Station</b>	<b>City</b>	<b>Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)</b>	<b>NEPA Action / Other Compliance</b>	<b>Status</b>
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Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status
				(b) (7)(E) and (b) (7)(E) FOB Modification	SEA for Expansion of (b) (7)(E) and (b) (7)(E)	<p>Cooperating Agency Request Letters sent to (b) (7)(E) and (b) (7)(E) on 6/7/13                      Initial Scoping letters sent to stakeholders on 6/10/13                      Work Order to HDR approved week of 6/1/13 for bio and cultural surveys                      Preliminary Draft SEA circulated for CBP internal review comments due by 6/14/13                      Field Surveys to occur 6/25/13</p> <p>**Decieson made last week of June to exectue CATEX/REC to provide coverage. CATEX/REC routed for signature on 7/1/13</p> <p>Recieved concurence from (b) (7)(E) and (b) (7)(E) Ecological Services Department-- concurences forwarded to (b) (6) w/ (b) (7)(E) RE on 7/30/13</p> <p>Letters informing stakeholders of decieson to utilize CATEX will be sent out in early August.</p>
Facilities	TCA	(b) (7)(E)	(b) (7)(E)	Cleanup of existing (b) (7)(E) Firing Range	CERCLA	RI/FS draft document completed. Wating on determination from USACE FUDs to determine if site is eligible for FUDs program and funding.



TI	TCA	(b) (7)(E)		Upgrade (b) (7)(E) Status - Facilities and TI Projects		
Program	Sector	Station	City	Activity Area (CTIMR, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status
Office Lead	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E)		Northland incorporating CBP comments on cultural survey and (b) (7)(E) reviewing Section 7 consultation letter
TI	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Permanent Lighting	EA/ESP Add?	Legal opinion with (b) (6), (b) (7)(C) and (b) (6), (b) (7)(C) awaiting direction
TI	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Wash Crossover	Hard Look	PRD in review w team
TI	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Crossover	Hard Look	PRD in review w/ team. This is slated to be a MILCON design effort. (b) (6), (b) (7)(C) received requirements early December 2015.
TI	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Wash Crossover	Hard Look	Will be included under associated WARD

TI	TCA			EA for (b) (7)(E) Status - Facilities and TI Projects other road segments on		EA and BABE ready for FS review
Program Office Lead	Sector	Station	City	(b) (7)(E) ea (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status Decision has been made in late May 2015 to remove requirements located within the IRA. FS provided extensive comments on the draft EA to CBP the last week of May 15.  Public review has been completed, minimal comments received. (b) (6), (b) (7)(C) working with SWCA in early December 2015 to respond to comments. Once FWS completes consultation CBP will sign FONSI.
TI	TCA	(b) (7)(E)	(b) (7)(E)	Reconstruct (b) (7)(E) Road	Need to complete 106 , Section 7 and NEPA	DOE returned from SHPO to NPS for revision
TI	TCA	(b) (7)(E)	(b) (7)(E)	Construct (b) (7)(E) Secondary Fence	MFR/Stormwater	MFR completed. SWPPP complete. Project extent confirmed 10/07/14. NOI was completed.
TI	TCA	(b) (7)(E)	(b) (7)(E)	Use and maintenance of (b) (7)(E) (b) (7)(E) of roads in (b) (7)(E) wilderness	EA	FY 2015 Start
FAC	TCA	(b) (7)(E)	(b) (7)(E)	Install well at (b) (7)(E) FOB and (b) (7)(E)	(b) (7)(E) is ENV green (b) (7)(E) will required CATEX and 106	Project is in PRD stage only and (b) (6), (b) (7)(C) provided information to USACE PM the week of Feb 16th.
TI	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E) Erosion Control	Reveg	(b) (7)(E), (b) (5), (b)(6);(b)(7)(C)

TI	TCA			(b) (7)(E) - (b) (7)(E) - Facilities and TI Projects	Work with (b) (7)(E) to provide NEPA clearance to ensure access to (b) (7)(E)
TI Program Office Lead	TCA Sector	(b) (7)(E)	(b) (7)(E)	CTIMR - Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA, 106 Clear two access roads to be used for (b) (7)(E) fence replacement project <b>Status</b>
TI	TCA	(b) (7)(E)		TIMR - (b) (7)(E) Road	NEPA, 106 Awarded Northland WO to perform Cultural Survey of (b) (7)(E) of existin (b) (7)(E) road located in (b) (7)(E) Station AOR - portions of road are located on (b) (7)(E)
(b) (7)(E)	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E)	CATEX/SHPO and tribes ust starting, lease for land access for (b) (7)(E)
(b) (7)(E)	TCA	(b) (7)(E)	(b) (7)(E)	(b) (7)(E)	CATEX/SHPO and tribes Need CATEX based off previous EA. Prepare asap

<b>Next Steps / Action Items</b>	<b>ENV SME</b>	<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initiated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final )</b>	<b>Project Completed? (Y/N)</b>
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<p>Per discussions with (b) (6), (b) (7)(C) CBP may execute the required SEA in-house.</p>	<p>(b) (6), (b) (7)(C)</p>	<p>12/14/15</p>						
<p><b>Next Steps / Action Items</b> Waiting on formal requirements approval by OBP so they can be incorporated into a letter of intent.</p>	<p><b>ENV SME</b></p>	<p><b>Date Updated</b></p>	<p><b>FME#</b></p>	<p><b>In FITT?</b></p>	<p><b>Env Action Initiated?</b></p>	<p><b>Env Action Title</b></p>	<p><b>Completion Date (Anticipated/Final )</b></p>	<p><b>Project Completed? (Y/N)</b></p>
<p>(b) (6), (b) (7)(C) provided ENV language for (b) (7)(E) and (b) (7)(E) LOIs, draft LOI currently being reviewed by PMO prior to submission to (b) (7)(E)</p> <p>Meeting on the (b) (7)(E) scheduled for 9/13/12 to meet with (b) (7)(E) and review upgrades to (b) (7)(E) and (b) (7)(E)</p> <p>(b) (6), (b) (7)(C) advised to begin NEPA clearance...Planning to create SEA in-house. Update on SEA as of 4/12/13 -- draft document is in great shape and is nearly complete and ready for internal review. (b) (6), (b) (7)(C) needs to issue WFO to have bio/cultural surveys of expanded footprint and incorporate results of surveys into SEA.</p> <p>(b) (6), (b) (7)(C) attending site visit requested by EPA to survey CBP drinking water</p>								
<p>Proceed with cleanup of firing range property separately from adjacent parcels while FUDS program investigates UXO on neighboring properties.</p>	<p>(b) (6), (b) (7)(C)</p>	<p>2/4/13</p>	<p>(b) (7)(E)</p>	<p>es</p>	<p>Yes</p>			

Post Final EA	(b) (6), (b) (7)(C)	12/14/15		Yes	Yes			
<b>ENV Complete</b>								
<b>Next Steps / Action Items</b>	<b>ENV SME</b>	<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initiated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
Survey Report submitted to (b) (7)(E) (b) (7)(E) in early March 2015. Continue to press (b) (7)(E) (b) (7)(E) for response on Report (b) (6), (b) (7)(C) to meet with (b) (7)(E) (b) (7)(E) on 8/11/15 regarding CR survey report	(b) (6), (b) (7)(C)	12/14/15	(b) (7)(E)	es	Yes	(b) (7)(E)		
Covered by waiver (Check status with (b) (6), (b) (7)(C))	(b) (6), (b) (7)(C)	3/18/13						
Covered by waiver, ENV Stewardship Memo under preparation when funded (Check status with (b) (6), (b) (7)(C))	(b) (6), (b) (7)(C)	3/18/13						
Covered by waiver, ENV Stewardship Memo under preparation when funded (Check status with (b) (6), (b) (7)(C))	(b) (6), (b) (7)(C)	12/14/15						
Covered by waiver, ENV Stewardship Memo under preparation when funded (Check status with (b) (6), (b) (7)(C))	(b) (6), (b) (7)(C)	3/18/13						

Need to resolve Inventory Roadless Area issue with FS	(b) (6), (b) (7)(C)	12/14/15	N/A	No	No			
<b>Next Steps / Action Items</b>	<b>ENV SME</b>	<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initiated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final )</b>	<b>Project Completed? (Y/N)</b>
Sector issuing letter to Forest Service in Early April 2015 to discuss exemption of (b) (7)(E) from IRA								
Received comments from FS on Draft EA. CBP responded to comments and is seeking to set up teleconference the week of July 13, 2015 to review CBPs responses to FS comments.								
Teleconference held with FS the first week of August 2015 to review comments, (b) (6), (b) (7)(C) indicated on call that plan is to complete ENV planning in CY 2015. (b) (6), (b) (7)(C) has follow up call with FS on 8/13/15 to review each FS comment on EA and Bio Evaluation.								
CBP to prepare draft EA schedule and draft Cooperating Agency Agreement.	(b) (6), (b) (7)(C)	12/15/15	N/A	Yes	No	N/A		
Followup at project end	(b) (6), (b) (7)(C); (b) (6), (b) (7)(C)	1/12/15	N/A	No	No			
Agree on SOW with NPS and develop MOU	(b) (6), (b) (7)(C)	12/14/15						
Work Currently Unfunded	(b) (6), (b) (7)(C)	12/14/15						
WO awarded. First round of hydro-seeding occurred in late May 2015. Hydrseeding was completed the week of July 6, 2013	(b) (6), (b) (7)(C)	8/10/15						

CBP team working on Plan of Development as requested by (b) (7)(E)	(b) (6), (b) (7)(C)	12/14/15							
Verify RE status and issue WO for cultural survey.	(b) (6), (b) (7)(C)	12/14/15							
<b>Next Steps / Action Items</b>	<b>ENV</b>	<b>ME</b>	<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initiated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final )</b>	<b>Project Completed? (Y/N)</b>
WO for cultural survey has been awarded, waiting on RE clearance to perform survey									
Surveys completed and ENV is green for two of the three access roads. Decieson was made to not pursue the third road due to landowner concerns.									
Draft Report submitted by Northland on 8/7/15	(b) (6), (b) (7)(C)	12/14/15							
SHPO concurrence finally received in November of 2015. SHPO agreed that CBP can plate site. Work to occur December 16, 2015. (b) (6), (b) (7)(C) coordinated for Northland monitor to be in place during site capping.									
	(b) (6), (b) (7)(C)	11/16/15							
working on draft	(b) (6), (b) (7)(C)	12/14/15							



Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME
TI	YUM			(b) (7)(E) ESPC Border Lighting Retrofit	REC	New project information received. Preparing SHPO and tribal consultation letters. Preparing REC.	Prepare REC.	(b) (6), (b) (7)(C)
TI	YUM		Yuma	(b) (7)(E) (b) (7)(E)	EA	Construction underway. RECON performing monitoring. Fire management plan and revegetation plan complete.	Continue construction monitoring; mod needed for additional hours. Implement revegetation plan.	(b) (6), (b) (7)(C)
TI	YUM			(b) (7)(E) Fence Replacement	CATEX	CATEX signed. BUOW survey completed. Construction underway.	Implement BMPs in CATEX.	(b) (6), (b) (7)(C)
TI	YUM			(b) (7)(E) Border Road Improvements	MFR	Planning underway for (b) (7)(E) of border road improvement and maintenance east of the (b) (7)(E) POE. Area and type of activity likely covered by (b) (7)(E) waiver. Surveys and impact analysis of similar activity done as part of a 2005 EA.	(b) (5), (b)(6);(b)(7)(C) Prepare MFR.	(b) (6), (b) (7)(C)
Facilities	YUM			(b) (7)(E) FOB (b) (7)(E) (b) (7)(E)	REC	Reviewed previous environmental documents. Agreement to (b) (7)(E) (b) (7)(E) out of wilderness. (b) (7)(E) agrees a REC will suffice for this activity. (b) (6), (b) (7)(E) completed cultural survey and will complete Section 7 requirements.	Follow up with (b) (6), (b) (7)(E) about survey and consultation results. Prepare REC.	(b) (6), (b) (7)(C)
Facilities	YUM			(b) (7)(E) FOB well and leach field	REC	PRD reviewed and comments submitted. (b) (7)(E) completed arch survey; awaiting write-up.	Complete REC.	(b) (6), (b) (7)(C)

Environmental Status - Facilities and TI Projects

Program Office Lead	Sector	Station	City	Activity Area (CTIMR, ESA, Veg Removal, etc.) / Project Title OR Action (Land Acquisition, Lease, Facility Construction, Facility Modification)	NEPA Action / Other Compliance	Status	Next Steps / Action Items	ENV SME
Facilities	YUM			(b) (7)(E) BPS Lease Renewal	CATEX	Request received. Preparing CATEX.	Complete CATEX and enter information into EPIIF.	(b) (6), (b) (7)(C)
TI	YUM			Complete environmental planning for establishment of replacement vegetation along (b) (7)(E) limitrophe	CATEX, Section 7, 404 Permit	Environmental compliance completed for CBP action	(b) (7)(E) wants CBP to complete environmental compliance for the proposed action (CBP has completed environmental compliance for its proposed action)	(b) (6), (b) (7)(C)
TI	YUM			Vegetation Treatment at (b) (7)(E)	CATEX	Draft CATEX under review by Yuma Sector		(b) (6), (b) (7)(C)

Date Updated	FME#	In FITT?	Env Action Initated?	Env Action Title	Completion Date (Anticipated/Final)	Project Completed? (Y/N)
12/14/15	(b) (7)(E)	Yes			12/30/2015	No
11/16/15	(b) (7)(E)	Yes			6/30/2016	No
12/14/15	(b) (7)(E)	Yes			12/31/2015	No
9/21/15						
8/10/15					9/30/2015	No
11/16/15					12/31/2016	No

<b>Date Updated</b>	<b>FME#</b>	<b>In FITT?</b>	<b>Env Action Initated?</b>	<b>Env Action Title</b>	<b>Completion Date (Anticipated/Final)</b>	<b>Project Completed? (Y/N)</b>
12/14/15		No	No			
6/2/14						
10/20/14						

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From:

(b) (6), (b) (7)(C)

To:

Cc:

Bcc:

Subject: RE: Bi-Weekly ENV Branch/EED Review Call

Date: Mon Jan 11 2016 16:32:35 EST

Attachments:

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(b) (6), (b) (7)(C)

I still don't have access to the project spreadsheet. Unfortunately, something happened with (b) (6), (b) (7)(C) computer and it's not allowing others to check out the spreadsheet for editing. I usually send out the most updated copy, so I'll wait until tomorrow to see if SharePoint will kick (b) (6), (b) (7)(C) out and allow me access again.

(b) (6), (b) (7)(C)

From: (b) (6), (b) (7)(C) ]  
Sent: Monday, January 11, 2016 8:40 AM  
To: (b) (6), (b) (7)(C)  
Subject: RE: Bi-Weekly ENV Branch/EED Review Call

Ok thanks! Did you send out the spreadsheet to update??

From: (b) (6), (b) (7)(C)  
Sent: Monday, January 11, 2016 10:35 AM  
To: (b) (6), (b) (7)(C)  
Cc: (b) (6), (b) (7)(C)  
Subject: RE: Bi-Weekly ENV Branch/EED Review Call

Thanks for letting us know (b) (6), (b) (7)(C). However, the meeting for today is being cancelled as (b) (6), (b) (7)(C) is in Yuma today. I'll be sending out a cancellation e-mail shortly.

(b) (6), (b) (7)(C)

-----Original Appointment-----

From: (b) (6), (b) (7)(C)

Sent: Monday, January 11, 2016 5:03 AM

To: (b) (6), (b) (7)(C)

Subject: Tentative: Bi-Weekly ENV Branch/EED Review Call

When: Occurs every 2 week(s) on Monday effective 1/11/2016 from 11:00 AM to 12:00 PM Pacific Standard Time.

Where: (b) (7)(E) PIN (b) (7)(E)

(b) (6), (b) (7)(C)

I have an appointment this afternoon so I am not sure if I will be on the call or not.

Regarding the range maintenance projects:

(b) (7)(E) work was completed last week. Equipment is being staged/moved to (b) (7)(E) and then to (b) (7)(E) over the next few weeks. (b) (7)(E) work is set to begin in the next few days. (b) (7)(E) work is planned for the end of January.

(b) (5), (b) (7)(E), (b)(6);(b)(7)(C)

(b) (6), (b) (7)(C)

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From:

(b) (6), (b) (7)(C)

To:

Cc:

Bcc:

Subject: RE: Bi-Weekly ENV Branch/EED Review Call

Date: Mon Jan 11 2016 11:46:47 EST

Attachments:

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I'll send it your way when it's available. Someone is currently updating it and it's been locked for editing.

(b) (6), (b) (7)(C)

From: (b) (6), (b) (7)(C)

Sent: Monday, January 11, 2016 8:40 AM

To: (b) (6), (b) (7)(C)

Subject: RE: Bi-Weekly ENV Branch/EED Review Call

Ok thanks! Did you send out the spreadsheet to update??

From: (b) (6), (b) (7)(C)

Sent: Monday, January 11, 2016 10:35 AM

To: (b) (6), (b) (7)(C)

Cc:

Subject: RE: Bi-Weekly ENV Branch/EED Review Call

Thanks for letting us know (b) (6), (b) (7)(C). However, the meeting for today is being cancelled as (b) (6), (b) (7)(C) is in Yuma today. I'll be sending out a cancellation e-mail shortly.

(b) (6), (b) (7)(C)

-----Original Appointment-----

From: (b) (6), (b) (7)(C)

Sent: Monday, January 11, 2016 5:03 AM

To: (b) (6), (b) (7)(C)

Subject: Tentative: Bi-Weekly ENV Branch/EED Review Call

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When: Occurs every 2 week(s) on Monday effective 1/11/2016 from 11:00 AM to 12:00 PM Pacific Standard Time.

Where: (b) (7)(E) PIN (b) (7)(E)

(b) (6), (b) (7)(C)

I have an appointment this afternoon so I am not sure if I will be on the call or not.

Regarding the range maintenance projects:

(b) (7)(E) work was completed last week. Equipment is being staged/moved to (b) (7)(E) and then to (b) (7)(E) over the next few weeks. (b) (7)(E) work is set to begin in the next few days. (b) (7)(E) work is planned for the end of January.

(b) (5), (b) (7)(E), (b)(6);(b)(7)(C)

(b) (6), (b) (7)



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From:

To:

(b) (6), (b) (7)(C)

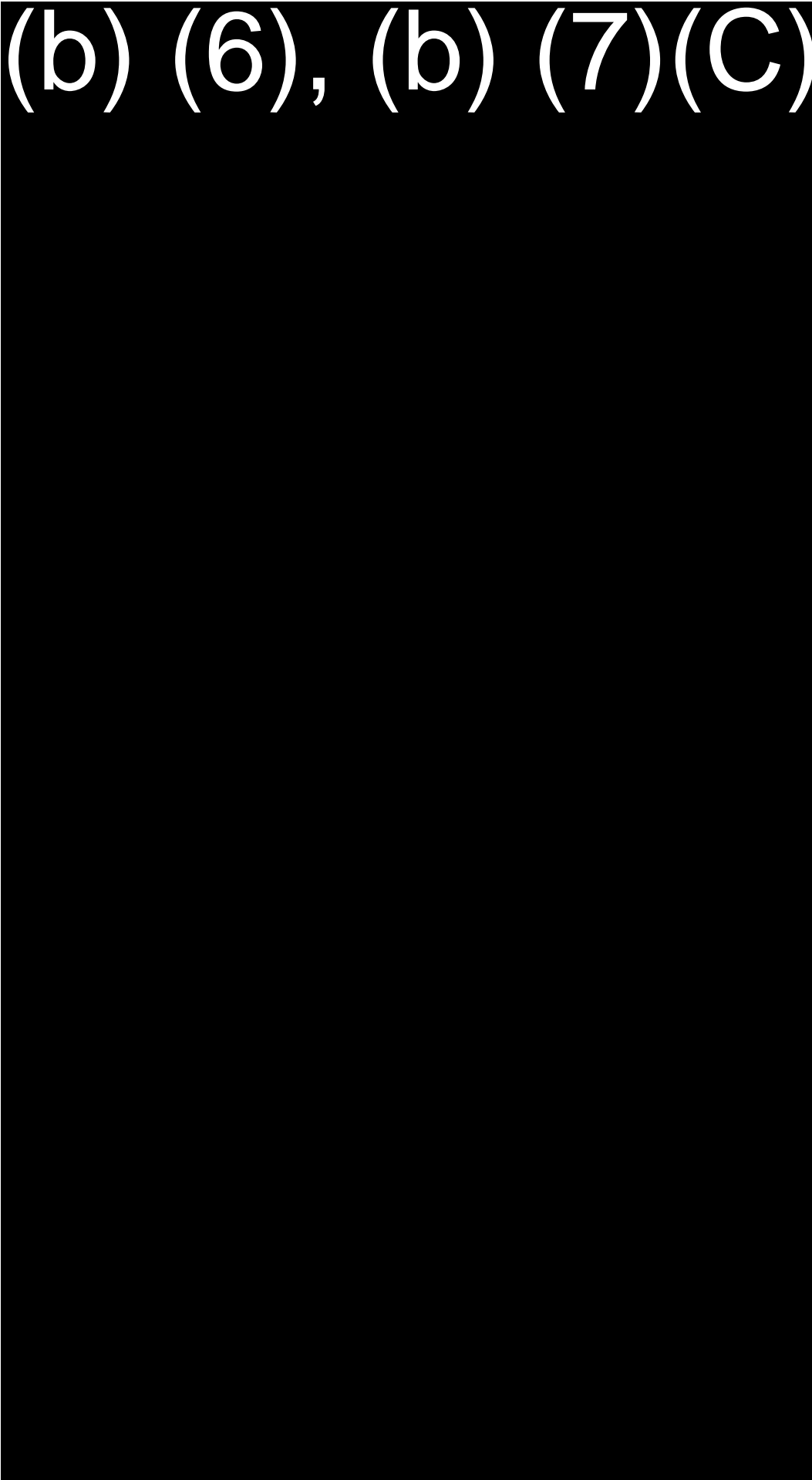


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From:

To:

(b) (6), (b) (7)(C)



(b) (6), (b) (7)(C)

Cc:

Bcc:

Subject: NOTES FROM 1/5/16 - (b) (7)(E) Bi-Weekly TI & Facilities Discussion

Date: Tue Jan 05 2016 15:16:22 EST

Attachments:

All,

Once again, rather than continue to update the notes as I have always done - I will just provide notes by exception.

Below notes are from today's call, and include updates in red:

TI:

(b) (7)(E) Project (Including (b) (7)(E)):

\*REAL ESTATE: On December 14th, the (b) (7)(E) ratified a Resolution supporting the (b) (7)(E) Project. It does not authorize work to commence, that will not occur until there's a FONSI and a signed Right of Way. Effectively, it signals that (b) (7)(E) as a whole is onboard with the project moving forward, so we will be working closely with reps from (b) (7)(E) toward drafting and negotiating compensation for both Right-of Ways (b) (7)(E) & (b) (7)(E). The actual Right-of-Ways cannot be executed until a FONSI is completed by CBP and by the (b) (7)(E).

oPROPOSED MOU: The Supporting Resolution for the (b) (7)(E) Project also calls for a separate written agreement. We have not yet begun to discuss the details of this agreement with (b) (7)(E), but they have explained that they expect (b) (5)

(b) (7)(E) On December 14th, the (b) (7)(E) also ratified a Resolution authorizing another 6-month period during which CBP can perform Maintenance & Repair to the roadway, which lies just north of the 60-foot Roosevelt Reservation.

\*DESIGN: FM&E & USACE PM's continue to work with USACE's Alaska District design team to work toward a construction-ready set of plans for the (b) (7)(E) project - i.e. to rework the 100% drawings to reflect changes proposed in formal comments to the design from the (b) (7)(E) and in discussions with the (b) (7)(E)

and OTIA's environmental SME. Following a number of internal meetings and meetings with the <sup>(b) (7)(E)</sup> the PM's have boiled down the handful of design updates they understand will satisfy (b) (7)(E). We expect draft revisions to the design later this month from Alaska, which will be provided to (b) (7)(E) for comment once they're vetted internally.

\*ENVIRONMENTAL: A Draft EA was presented to (b) (7)(E) for review in December, before Christmas. CBP agreed to allow 40-days for their review, which includes an additional 10-days to account for the holidays.

FACILITIES:

(b) (7)(E) FOB

\*WARRANTY WORK: A number of warranty issues (e.g. inoperable exercise equipment & microwave) were identified by Border Patrol. As of today, all outstanding Warranty Items brought to FM&E's attention have been rectified.

\*GATE CONTROL/OPERATION: An additional non-warranty issue arose as agents (b) (7)(E) (b) (7)(E) his issue has been rectified - (b) (7)(E).

\*UPGRADE: Contract was AWARDED. Currently coordinating with USACE and Sector to map out schedule for temporary facility shut-down to allow for completion of this work along with the installation of the relocated (b) (7)(E) Modular. Govt review of the 95% design expected complete by 1/11/16, which will then be presented to the contractor for review/comment.

(b) (7)(E) MODULAR: The IAA to USACE WAS PROCESSED; the contract negotiations are being finalized.

(b) (7)(E) FOB

(b) (7)(E) UPGRADE: Construction is COMPLETE. However, there are punch-list items being worked, and there is a Change Request in process to install a (b) (7)(E) in the LAN Room within the equipment shelter, which will alert agents if (b) (7)(E).

Very Respectfully,

(b) (6), (b) (7)(C), MBA PMP  
Real Estate Program Manager  
LMI Government Consulting  
Border Patrol Facilities & Tactical Infrastructure  
Program Management Office  
Facilities Management and Engineering  
U.S. Customs and Border Protection

Blackberry: (b) (6), (b) (7)(C)

Excel as a trusted strategic partner enhancing  
Border Patrol's proud legacy.