Air Force Civil Engineer Center



Wurtsmith Restoration Advisory Board Meeting

18 April 2018 Matt Marrs AFCEC/CIB

Battle Ready... Built Right!







Welcome



Wurtsmith RAB Agenda



WELCOME

- Introductions
- Ground rules

UPDATES

Stakeholder update

BREAK 10-minute BREAK 2018 Activities Calendar 2018 Summer /Fall Activities **ACTIVITIES** •DW Sampling Schedule RAB •13 Feb. Meeting minutes **BUSINESS** Next meeting **PUBLIC** Two-minute limit COMMENT



Wurtsmith RAB Ground Rules



- **01** Respect one another and maintain an atmosphere of open dialogue and exchange of ideas.
- **02** Use our time together efficiently, wisely and respectfully.
- **03** Speak clearly and succinctly one person at a time; avoid interrupting others.
- *O4* Listen and remain open to differing points of view.
- **05** Maintain a propensity for progress: prepare, discuss, document and move forward.
- *06* Share information early, openly and honestly
- **07** Accurately and objectively relay to others the discussions that occur at board meetings.







Updates



Wurtsmith RAB Stakeholder Updates



- New GAC P&TS location demo/construction began in March
- Improved IR setup

Public Health Updates

M DHHS

CIVIL DUGINEER CH

- Community RAB Members
- Research USAF "CERCLA/AR 32-7020 vs DSMOA vs MDEQ Part 201 Remediation/Enforcement
- Status of MDEQ/MPART study & report: Modelling of PFAS Plumes Migration + Source - based on SW & GW sampling
- USAF Veteran anecdotes on AFFF use
- Community outreach, communication regarding remediation
- Summary of community requests on remediation







10-Minute Break





DEC 2017								GAC PTS si	ite work	began
JAN	1/8 – 9							2018 SSI sa	mpling	oegins
FEB	GAC site						Ľ	DW Sampli	ng Even	t
MAR	geo-tech					N 4 -				
APR	Dec 2017 – 3/30 3/	/15 – 4/13				IVIZ	y – Ju VAS	ne July		
MAY 🖯	0.00	emolition						Monitori Well	ng	
JUN		4/*	16 – 5/2	5:				Installati		
JUL		Co	nstruct	ion					U	– Jul '19 Ionitoring
AUG 🛛				4	/20 – 8/	1:				
SEP					System stallation					
OCT										
NOV 🗍										
DEC										







Arrow Street/Benzene GAC PTS Update

Began demolition work in March

•Full design submitted to AFCEC,

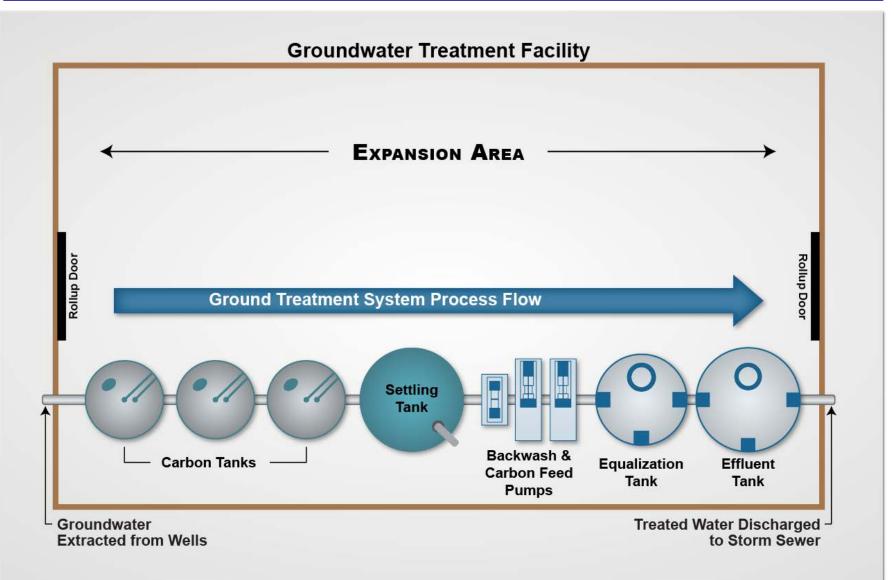
MDEQ and USACE on March 30th

Construction activities ongoing

















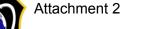
AFCEC wrapped up initial SSI sampling in Dec. 2017.

AFCEC established preliminary prioritization objectives for PFOS/PFOA response actions based on validated 2017 results.

Preliminary Prioritization Objectives

Protect drinking water receptors
Monitor residential and public drinking water supplies





R FORCE IN

Area 15: SS-71 Arrow Street Pump and Treat System Area 7: Buildings 5091 and 5092 Area 1: Base Operation Apron Leto Kinan nzene Plant Pump and Treat System Area 2: Maintenance Hangar Mission Drive Pump and Treat Syst FIGURE 2.1 SYMBOL KEY Air Force Civil SSI Area Locations: Area 01, 02, 07, and 15 Base Operation Apron, Maintenance Hangar, Building 5091 and 5092, and Site SS-71 Former Wurtsmith Air Force Base **Engineer Center** Estimated Capture Zone Former Wurtsmith AFB 0 PurgeWells 2261 Hughes Avenue Building 171, Ste 155 JBSA Lackland, Texas 78236 (Bay West, 2017) Installation Boundary Estimated Groundwater Flow Direction Groundwater Treatment Stream Oscoda, Michigan ٠ AFFF SSI Priority Areas System N Project: 775329301 Surface Water Working Copy Former Base Supply Well . By: KEH Date: 04/11/2018 Supplemental Site Inspection Diacleimer: For general reference purposes only. This is not a survey product, DD NDT USE to determine, certify, or verify map features, scale and/or other informat Service Layer Credits. Source: Esri, DigitalGlobe, GeoEye, Earthstar Seographics, CNESIAirbus DS, USDA, USDS, AeroGRID, IGN, and the GIS Work Plan laar Community





Continue to protect drinking water receptors through further SSI sampling:



Areas 1 & 15

- •Evaluate the down-gradient extent of contamination
- •Further characterize up-gradient source area
- •Evaluate effectiveness of Arrow/Benzene PTS
- •Collect additional hydrogeologic data to better understand aquifer characteristics and GW flow
- Update GW Model





Continue to protect drinking water receptors through further SSI sampling:

Area 2

- •Define extent of contamination outside modeled Mission Drive Capture
- •Evaluate Mission Drive PTS
- •Collect additional hydrogeologic data to better understand aquifer characteristics
- Update GW Model

Area 7

- •Evaluate co-mingling of contamination with Area 2
- Collect additional hydrogeological data to better understand contaminant migration
- Update GW model





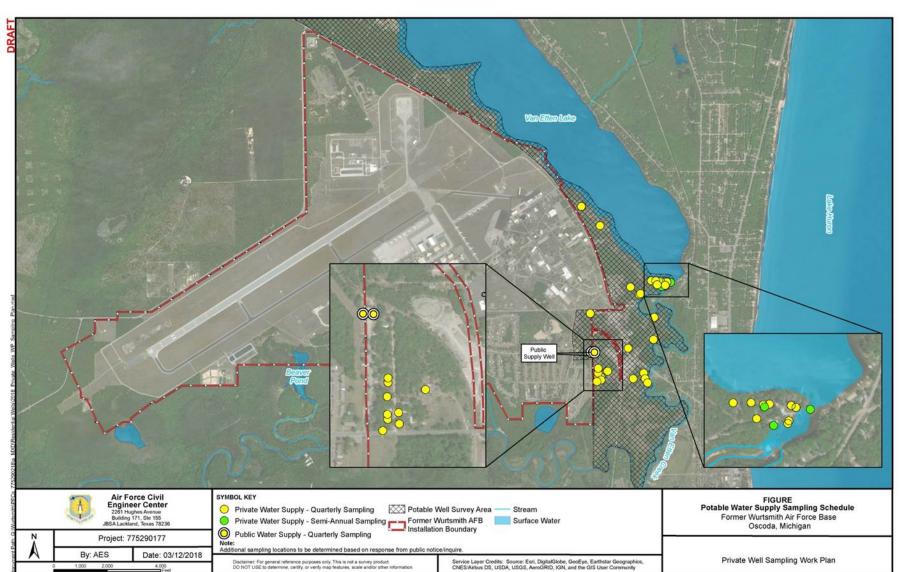
Protect human health by monitoring residential and public drinking water supplies:

The Air Force is implementing a monitoring schedule for two publicsupply wells and 36+ residential wells for a three-year period.



- Quarterly/Semiannual sampling beginning May 2018
- Annual sampling additional two years
- Additional outreach to capture all DW sources within the Air Force study area





Attachment 2

R FORCE







RAB Business





Wurtsmith Project and RAB Documents

Document	
2 Aug. minutes	IR
19 Sep minutes + packet	IR
13 Feb minutes	IR
RAB Handbook	IR
Wurtsmith RAB Operating Procedures	IR
1992 & 2016 DSMOA	IR
RAB administrative docs	IR

Draft Final 2016 RAO Report: Arrow Street, Benzene Plant, and Mission Street P&TS	AR
DoD RAB Rule	IR
571962- Data Gap for SS008	AR
571963- Data Gap for WP004	AR
571964- QAPP with Attachment E	AR
571966- LUC/IC Report	AR

- Next RAB Meeting
- Meeting evaluation cards







Public Comment







Public Comment Period

- *O1* Sign in and write your name on a card
- *O2* Deliver your comments from the front of the room
- *03* Two minute time limit
- **04** RAB members will confer after your comment to see if a follow-up action is needed







Conclusion & Adjournment

Attachment 2

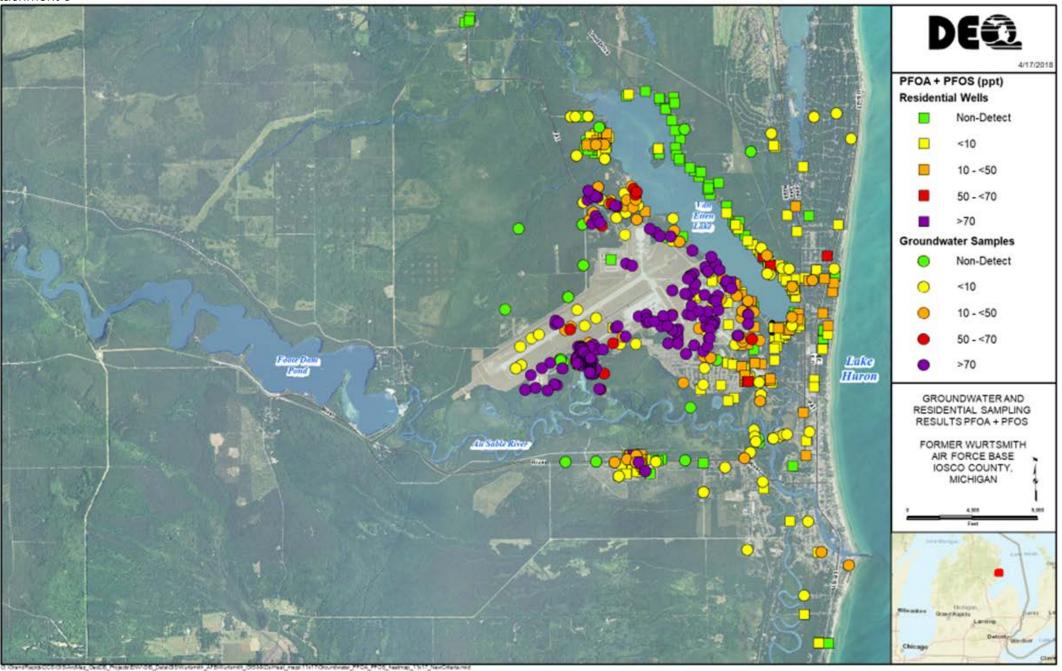


Restoration Advisory Meeting MDEQ Update

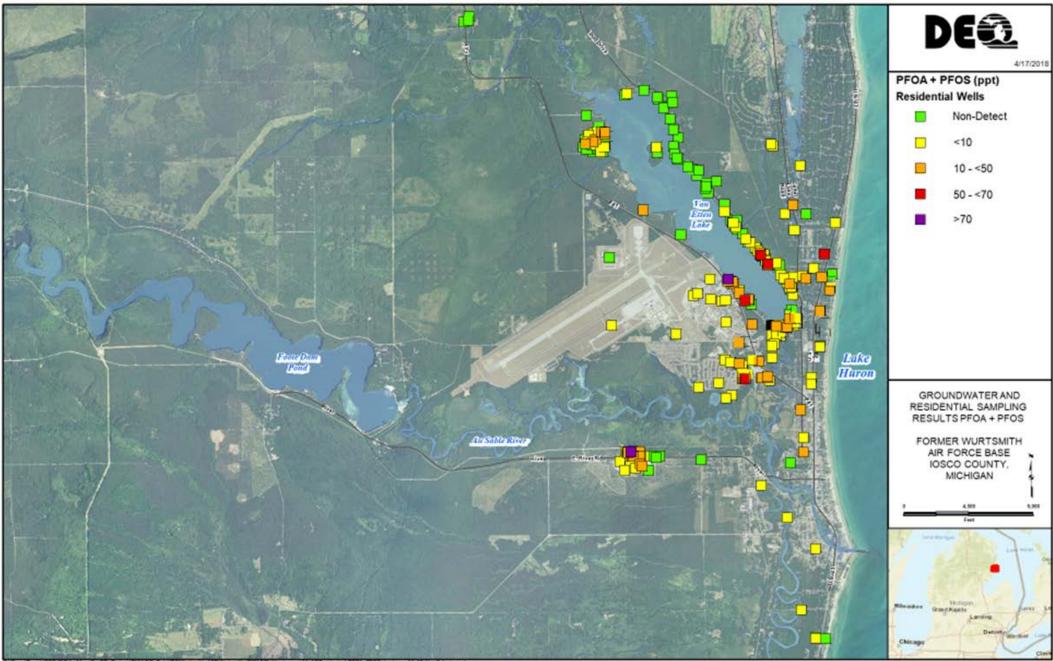
APRIL 18, 2018



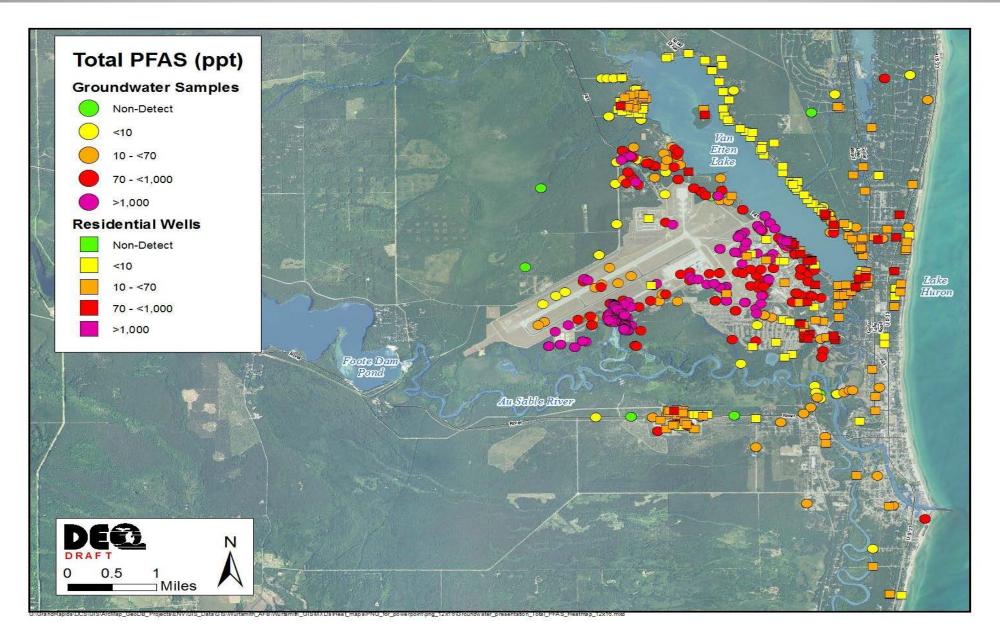
Attachment 3







Groundwater TotalPFAS



MDEQ Field Events

- Residential Well Sampling Colbath & River Road Areas
- Addressing Foam
- Plume Modeling Report
- Surface Water Sampling

MDEQ Field Events (Continued)

- Groundwater Flow Monitoring
- Well Drilling
- Fish Sampling
- Deer Herd Sampling

Link to State of Michigan, Wurtsmith Web Page Contact Information

http://www.michigan.gov/som/0,4669,7-192-45414 45929 83470---,00.html

Robert Delaney

delaneyr@michigan.gov

517-284-5085



Former Wurtsmith AFB FY18 Projects, Programming and Updates 12 April 2018

PROJECT	DESCRIPTION	STATUS UPDATE	PROJECTED COMPLETION
New GAC treatment system *Aerostar	New treatment system will combine the Arrow Street and Benzene Plant influent streams and treat PFOS/PFOA using GAC treatment	Construction work began 2 April 2018	August 2018
Supplemental Site Investigation *AmecFW	SSI sampling will gather additional data to build on initial site inspection work. SSI work will define plume locations, potential movement and understand plume fate	Phase II sampling begins in May and will include areas 1,2,7 and 15	Phase 1: July 2019 (includes 2017 and 2018 fieldwork)
Influent/ Effluent monitoring	PFOS/PFOA Influent/Effluent monitoring for Mission Street, Arrow Street and Benzene Plant PTS	With current contract scope and funding we sampled once in 2017 and once in 2018	TBD
Mission Street discharge mitigation	PTS Discharge Mitigation for PFOS/PFOA above surface water discharge limit	PRD process for FY19 – contingent on funding	TBD
Remedial Action, Operation and Monitoring *Bay West	Central Region Performance Based Remediation. Ongoing remedial operations, monitoring, optimization, site closures and five-year review	Ongoing	Bay West contract completion: June 2021 (follow-on PBR)
LF30/31 remedy enhancements	Incorporating recommendations from complex site investigation	PRD (<i>Program Requirements Development</i>) process for FY19	TBD – contingent on funding
LF30/31 Hydraulic Gradient Control	Hydraulic Gradient Control to Prevent Leachate Migration. Feasibility study for phytoremediation	PRD process for FY19 – contingent on funding	TBD
Remedial Action Site SS072 *Bay West PBR	Full-scale Enhanced Bioremediation implementation to treat PCE contamination	Ongoing	Initial injection following system construction (2018), plus every 2 years



Attachment 5 AIR FORCE CIVIL ENGINEER CENTER BASE REALIGNMENT AND CLOSURE PROGRAM

WHERE TO FIND WURTSMITH RESTORATION PROJECT INFORMATION...

AFCEC Website

http://www.afcec.af.mil/Home/BRAC/Wurtsmith

The AFCEC website is an official Air Force website managed by the Air Force Installation and Mission Support Center's Public Affairs Office.



The public site delivers news and information on AFCEC and the work the agency does to advance the Air Force mission, including Base Realignment and Closure.

The BRAC Program webpage includes sub pages for all BRAC installations. The Former Wurtsmith Air Force Base page provides historical background on Wurtsmith, base closure and ongoing environmental restoration work. All information on this site is Air Force-produced and cleared for public release.

- RAB Documents: agendas, minutes, presentations, training materials, etc.
- Project fact sheets
- Frequently Asked Questions
- Informational materials
- Administrative Record linkLocal Redevelopment Authority

• Announcements

• Air Force press releases/articles

http://afcec.publicadmin-record.us.af.mil

information and contacts

Administrative Record

The AR is the Air Force's official storage location and legal record for documents that form the basis for selecting a Comprehensive Environmental Response, Compensation and Liability Act, or CERCLA, response action. The database is organized by military site and includes sortable search filters to refine results. All documents include an AR number on the cover sheet. The AR is updated monthly by the Air Force as final documents are published.

• Public notices

Records of Decision (RODs)Minutes from decisional BRAC

Coordination Team Meetings

• Official documents with public comments

Proposed plans/work plans

- Select draft reports
- Final Reports: Preliminary Assessments, Site Inspections, etc.

Information Repository

Robert J Parks Library: 6010 N Skeel Ave.

The Air Force maintains a local IR of hard-copy documents for public access at all BRAC installations. The IR includes the same documents as the AR, as well as:

- Monthly BCT meeting agendas and minutes
- Draft documents of public interest
- RAB Documents: agendas, minutes, presentations, training materials, etc.



AFIMSC Public Affairs

AFIMSC.PA.workflow@us.af.mil

• Photos/videos

Attachment 6

Congress of the United States Washington, DC 20515

April 18, 2018

The Honorable John W. Henderson Assistant Secretary of the Air Force for Installations, Environment and Energy 1665 Air Force Pentagon Washington, DC 20330 The Honorable Lucian Niemeyer Assistant Secretary of Defense for Energy, Installations and Environment 3400 Defense Pentagon, Room 5C646 Washington, DC 20301-3400

Assistant Secretary Henderson and Assistant Secretary Niemeyer:

Residents living near former Wurtsmith Air Force base (Wurtsmith) have had their groundwater and surface water contaminated by per- and polyfluoroalkyl substances (PFAS) from the use of aqueous film forming foam (AFFF) by the U.S. Department of Defense (DOD). We ask that the DOD use this year's funding to prioritize stopping additional contamination of groundwater and surface water coming from Wurtsmith.

Exposure to PFAS has been linked to cancer as well as thyroid, kidney, liver, heart and reproductive problems. In the Fiscal Year 2018 Consolidated Appropriations Act, Congress increased funding for environmental remediation at BRAC bases by \$54 million, increasing the program to \$310 million. In the accompanying committee report, it states specifically that the Secretary of the Air Force should prioritize clean up at PFAS contaminated sites. While we recognize there is a significant backlog of environmental remediation projects, the DOD should focus its funding on sites, such as Oscoda, Mich., that Congress intended.

In 2016, the U.S. Environmental Protection Agency (EPA) established new lifetime health advisories for two types of PFAS—perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS). In addition, pursuant to state law¹, the state of Michigan's cleanup criteria for groundwater for the protection of drinking water was established January 10, 2018. Furthermore, the state of Michigan has water quality standards which apply to surface waters, and also to groundwater venting to surface waters. Michigan regulations² specify that water quality standards shall be met in *all* waters of the state. The DOD must comply with Michigan's water quality standards and cleanup criteria, and must stop the movement of contamination from the former base into groundwater and surface waters near Wurtsmith.

The DOD is currently installing granulated activated carbon (GAC) filter systems in two locations where water is treated and returned to surface waters. However, according to extensive sampling conducted by the Michigan Department of Environmental Quality (MDEQ), there is still a significant volume of PFAS contamination in the groundwater on the former base and

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¹ Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

² Part 4 Rules, Water Quality Standards (of Part 31, Water Resources Protection, of Act 451 of 1994)

flowing off-base in groundwater and entering surface water. Additional treatment of the contaminated groundwater, including additional GAC filter systems, is needed. The DOD should purchase and install additional GAC filter systems to treat the groundwater and ensure it is complying with Michigan's laws to prevent further contamination from Wurtsmith.

The MDEQ estimates that in 2018 alone, \$36 million must be spent on remediation at Wurtsmith. Of that money, \$33 million is needed to fund six treatment systems that withdraw contaminated groundwater, treat it using GAC filter systems to remove PFAS, and reinject treated water into the aquifer or discharge to surface water. All six GAC systems would treat the plume that directly contaminates Van Etten Lake in Oscoda near Wurtsmith. One of the six GAC systems would also treat a portion of the plume impacting a children's YMCA camp on the lake.

In addition, \$3 million would be used for expansion of a currently planned Air Force treatment system to allow for increased volume of contaminated groundwater to be treated.

Overall, to completely remediate the PFAS contamination at Wurtsmith, the MDEQ estimates it will cost at least \$180 million.

Frequently, we hear concerns from community leaders in Oscoda regarding the contamination's negative impact on the community's economy and housing market. The local tourist industry is losing business because people are afraid of being exposed to PFAS while companies are having difficulty attracting talent for jobs due to concern with safety of the water.

The community of Oscoda had this contamination done to them – it was not the local community's fault. The residents of Oscoda have already suffered through the closure of Wurtsmith, they should not continue to suffer from the DOD's actions. Thus, the DOD must immediately direct funds to stop further contamination of the groundwater and surface water.

Sincerely. Enge Peters Debbie S Daniel T. Kildee U.S. Senator MEMBER OF CONGRESS U.S. Senator

AIR FORCE ACRONYM LIST: WURTSMITH RAB

- AF Air Force
- AFB Air Force Base
- AFCEC Air Force Civil Engineer Center
- AFFF Aqueous Film Forming Foam
- AFIMSC Air Force Installation and Mission Support Center
- AR Administrative Record
- ATSDR Agency for Toxic Substances and Disease Registry
- BCT BRAC Cleanup Team
- BEC BRAC Environmental Coordinator
- BRAC Base Realignment and Closure
- CERCLA Comprehensive Environmental Response, Compensation and Liability Act
- **DERP** Defense Environmental Restoration Program
- DoD Department of Defense
- DSMOA Defense and State Memorandum of Agreement
- DW Drinking Water
- EA Environmental Assessment
- **EC** Emerging Contaminant
- EIS Environmental Impact Statement
- **EPA** Environmental Protection Agency
- ERP Environmental Restoration Program
- ERD Enhanced Reductive Dechlorination
- ESE Extended Site Evaluation
- FAQs Frequently Asked Questions
- FOUO For Official Use Only
- FTA Fire Training Area
- GAC Granulated Activated Carbon
- **GPM** Gallons Per Minute

- **GW** Groundwater
- HA Health Advisory
- **IR** Information Repository
- **IRP** Installation Restoration Program
- IX Ion Exchange
- LHA Lifetime Health Advisory
- LUC Land Use Control
- MDEQ Michigan Department of Environmental Quality
- MDHHS Michigan Department of Health and Human Services
- **MMRP** Military Munitions Response Program
- NEPA National Environmental Policy Act
- NOV Notice Of Violation
- **OP** Operating Procedures
- OOC Out Of Cycle
- PA Preliminary Assessment
- **PAO** Public Affairs Office(r)
- PFAS Per- and Polyfluoroalkyl Substances
- PFCs Perfluorinated Compounds
- PFOS/PFOA Perfluorooctanesulfonic and Perfluorooctanoic Acids
- **PM** Project Manager
- POL Petroleum, Oil and Lubricant
- PPB Parts per Billion
- **PPT** Parts per Trillion
- PRD Program Requirements Development
- PTS Pump and Treat Systems
- RAB Restoration Advisory Board
- RAO Remedial Action Objectives
- **RI** Remedial Investigation

- **ROD** Record of Decision
- **SC** Site Closure
- **SI** Site Inspection
- **SSI** Supplemental Site Inspection
- **TCE** Trichloroethene or Trichloroethylene
- **TRC** Technical Review Committee
- **USAF** United States Air Force
- VI Vapor Intrusion
- **VOCs** Volatile Organic Compounds
- **WBT** Whole Base Transfer

Attachment 8

RAB Survey Feedback Summary

14 April 18 Wurtsmith RAB meeting

MEETING EVALUATION					
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
Agenda content was comprehensive and relevant.		2	1	2	
Presenters were effective.		1	2	2	
Satisfied with meeting venue and set-up.			1	3	1
Overall, the meeting was worthwhile.			1	4	

Strengths	Improvements
Lots of encouragement for government agencies to work together	Provide better timeline for complete remediation
Good moderation and forum	Seating around table is too tight
Meetings are improving	Need more info/updates from MDEQ and other agencies
Agenda content was relevant	Deliver full solutions
Open discussion	Action item review should be a priority
Lots of meaningful input	Unanswered action items
Less interruptions during presentations	

Requests/Comments:

- 1. What other methods are being used to remove these chemicals?
- 2. Would like to see all data incorporated in maps and presentations
- 3. Provide timeline for follow-on actions
- 4. Since restoration activities are so slow, what else can be done to protect people in the community?

Former Wurtsmith AFB Restoration Advisory Board Action Item Tracker OPEN ACTION ITEMS as of 5/7/18

No.	Date Created	Action Item	Comments/Resolution	Status	Owner	Due Date
13	13-Feb-18	Consider viability of including a conference call option at	AF: Conference call option could	Open	Air Force (M. Marrs)	6-Jun-18
		future RAB meetings.	be exercised in special			
			circimstances as need arises. If			
			so, a meeting room equipped with			
			teleconference capability would be			
			needed.			
14	13-Feb-18	Provide GAC Treatment Plant plans to the Oscoda	AF: A disk with completed design	Open	Air Force (M. Marrs)	6-Jun-18
		Planning Commission.	could be provided to the planning			
			board for their records. Need an			
40	40 Est 40	Madife the EV40 Decide to Oursee and the addite of	address to send it to.	0	<u>Аін Панаа (М</u>	40. 4 = = 40
16	13-Feb-18	Modify the FY18 Project Summary document by adding		Open	Air Force (M.	18-Apr-18
17	13-Feb-18	out-of-cycle funding requests and other projects. Consider placing a boom, or another structure, on Van		Open	McClendon) MDEQ (B. Delaney)	18-Apr-18
17	13-Feb-10	Etten Creek to capture the foam.		Open	MDEQ (B. Delalley)	10-Api-10
18	13-Feb-18	Discuss how to integrate CERCLA and NEPA processes	AF: DoD determined NEPA does	Open	Air Force (M. Marrs)	18-Apr-18
10		when USFS permitting requirements interact with the	not apply to response actions that	open	and USFS (T.	
		environmental restoration program at the former	fully comply with CERCLA and the		Martoglio)	
		Wurtsmith AFB.	NCP. The Air Force will cooperate		inditoglio)	
			with USFS for any requirements			
			they have for actions proposed on			
			USFS lands.			
19	13-Feb-18	Inform RAB members about the effectiveness of a resin	AF: It is premature to try and	Open	Air Force (M. Marrs)	18-Apr-18
		exchange system (as compared to traditional	present factual infomration on this.			
		PFOS/PFOA treatment systems such as GAC filtration).	Resin for use for PFCs is in its			
			infancy. It will take several years			
			of experience to be able to provide			
			any reliable information on resin			
			for PFCs. We will provide			
			information as it becomes			
			available. Right now Pease and			
			Reese are using the resin			
			technology and, when case			
			studies are devloped from that			
			experience, presentations can be			
			dovolopod			1

Attachment 9

No.	Date Created	Action Item	Comments/Resolution	Status	Owner	Due Date
20	13-Feb-18	Determine agency responsible for addressing sample results that exceed the EPA lifetime HA for PFOS/PFOA at the plumes near the high school.		Open	Air Force (M. Marrs)	18-Apr-18
21	18-Apr-18	Air Force and MDEQ collaborate to put in place interim remedial action to address PFOS/PFOA contamination until pump and treat systems are in place and functioning.	Requested by Arnie Leriche at 18 April 2018 RAB meeting.	Open	Air Force (M. Marrs) and MDEQ (B. Delaney)	TBD
22	18-Apr-18	Provide status of (and release) the MDEQ/MPART report entitled "Modeling of PFAS Plumes Migration and Source."	Requested by Arnie Leriche at 18 April 2018 RAB meeting.	Open	MDEQ (B. Delaney)	TBD
23	18-Apr-18	Air Force and OWAA coordinate to deconflict investigative/remedial activities and airport operations.	Requested by Bill Gaines at 18 April 2018 RAB meeting.	Open	Air Force (M. Marrs) and Mike Munson (OWAA)	TBD
24	18-Apr-18	Describe extent, and sources of, contamination on National Forest system land (specifically Clark's Marsh). Indicate which party was responsible for contaminating Clark's Marsh.	Requested by Tony Martoglio and Tim Cummings at 18 April 2018 RAB meeting (between time 1:56:31 and 1:57:55 on video).	Open	Air Force (M. Marrs)	TBD
			U			

Former Wurtsmith AFB Restoration Advisory Board Action Item Tracker CLOSED ACTION ITEMS as of 5/7/18

No.	Date Created	Action Item	Comments/Resolution	Status	Owner	Date Completed	Old No
1	2-Aug-17	The Air Force will develop a Wurtsmith-RAB-specific acronym list for RAB members.		Closed	Air Force	19-Sep-17	n/a
1	2-Aug-17	Properly orient attendees to maps and figures when they are presented at RAB meetings and ensure that they are easily viewable.	This was converted from an AI to a RAB meeting standard.	Closed	All presenters	3-May-18	
2	2-Aug-17	The Air Force will provide an overview of the CERCLA process; explaining the process from site discovery to site closure.		Closed	Air Force	19-Sep-17	n/a
2	2-Aug-17	When presenters discuss the EPA's Heath Advisory for PFOS/PFOA or other regulatory standards, indicate what environmental media they are talking about (ex: groundwater, surface water, soil, air, etc.).	This was converted from an AI to a RAB meeting standard.	Closed	All presenters	3-May-18	
3	2-Aug-17	The Air Force will create a frequently asked questions (FAQ) sheet concerning RABs and the Wurtsmith environmental program for RAB members.		Closed	Air Force	19-Sep-17	n/a
3	2-Aug-17		This was converted from an AI to a RAB meeting standard.	Closed	All presenters	3-May-18	
4	2-Aug-17	The Air Force will email an electronic copy of the Draft Wurtsmith RAB Operating Procedures to the RAB members.		Closed	Air Force	15-Aug-17	n/a
4	19-Sep-17	Advise RAB members which documents have been added to the AR/IR since the last RAB meeting.	This was converted from an AI to a RAB meeting standard.	Closed	Air Force (M. Marrs)	3-May-18	
5	19-Sep-17	The RAB should request that the next MDHHS public meeting be held in coordination with the November RAB meeting. So if the RAB is scheduled for November 1, the MDHHS should be held on November 2.		Closed	Air Force	13-Feb-18	
5	2-Aug-17	As requested, the Air Force will email a copy of the former Pease AFB RAB Operating Procedures to the RAB members.		Closed	Air Force	15-Aug-17	n/a
6	1-Nov-17	Include revision date on all documents shared with the RAB.	This was converted from an AI to a RAB meeting standard.	Closed	Air Force (M. Marrs)	3-May-18	
6	2-Aug-17	The Air Force will send out a link to the DoD RAB Rule and Handbook and the Wurtsmith BRAC webpages:RAB Handbook: http://www.denix.osd.mil/rab/home/unassigned/rab-rule- handbook/ ; DoD RAB Rule: https://www.gpo.gov/fdsys/granule/FR-2006-05-12/06- 4246; Air Force Administrative Record: http://afcec.publicadmin-record.us.af.mil/ ; Wurtsmith BRAC webpage:		Closed	Air Force	15-Aug-17	n/a
7	2-Aug-17	http://www.afcec.af.mil/Home/RRAC/Wurtsmith.asp The Air Force will specify points of contact for communicating with the RAB.		Closed	Air Force	15-Aug-17	n/a
7	1-Nov-17	Send meeting presentations electronically to RAB members.	This was converted from an AI to a RAB meeting standard.	Closed	Air Force	3-May-18	

Attachment 9

No.	Date Created	Action Item	Comments/Resolution	Status	Owner	Date Completed	Old No.
8	2-Aug-17	The Air Force will email the Community RAB members requesting interested parties or nominations for the Community Co-Chair position.		Closed	Air Force	15-Aug-17	n/a
9	2-Aug-17	The Air Force will email the RAB members confirming the date, location and other items for the proposed RAB orientation/training on 19 September 2017.		Closed	Air Force	15-Aug-17	n/a
9	1-Nov-17	Send MDHHS presentation to RAB members electronically.	Included as attachment to 1 Nov 2017 RAB minutes.	Closed	MDHHS (C. Bush)	13-Feb-17	
10	1-Nov-17	Clarify for RAB members the PFAS historical timeline, purpose, schedules, and locations of the GAC unit(s) [Arrow St and Benzene pump and treat systems]. Describe the information the Air Force has provided to the community about siting the GAC unit(s).	AF: One GAC treatment plant is in place a FT-02 and has been operating since March 2015. Only other GAC is for APTS and BPTS is scheduled for operation in August this year.	Closed	Air Force (M. Marrs)	3-May-18	
11	19-Sep-17	Community co-chair election		Closed	All	1-Nov-17	n/a
12	18-Jan-18	Specify which documents are available at the information repository and which are available elsewhere (including detailed location/website link); record date that hard copy documents are placed in the information repository.		Closed	Air Force (M. McClendon)	18-Apr-18	

15		Determine whether the contractor, which is constructing the GAC treatment plant, will be penalized for construction delays.	There are no liquidated damages built into the contract for the GAC facility. All contracts are reviewed and performance ratings are assigned based upon the contractor's success in meeting milestone dates for Wurtsmith.		Air Force (M. Marrs)	3-May-18
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lo.	Agenda Topic	Discussion Points	Timeframe
2	How to apply for Technical Assistance for Public Participation grants	Consider the following elements: support document management at library; video broadcasting RAB meetings; hold additional outreach meetings; include examples of grant scopes/outcomes.	18-Apr-18
4	Document management	1) What types of documents does each stakeholder agency produce (pertaining to environmental restoration of the former Wurtsmith AFB)?; 2) How can RAB members and the public access these documents (e.g., Admin Record, elsewhere online, library, etc.)?; 3) When are such documents generally made available to the public?	18-Apr-18
5	Tiered approach and budget process	Discuss tiered approach by which the Air Force prioritizes investigative and remedial activities. Provide budget update. Consider inviting elected officials to address DoD funding.	TBD
6	Fish tissue sampling in Clark's Marsh	Provide update about fish tissue sampling in Clark's Marsh	TBD
7	Treatment systems for PFOS/PFOA contamination	Provide update on treatment systems the Air Force could employ to mitigate PFOS/PFOA contamination.	TBD
3	Residential well sampling	Identify residential wells the Air Force intends to sample during the upcoming three-year monitoring program.	TBD
9	Incorporating data from other stakeholder organizations	Describe how the Air Force incorporates, reviews, and utilizes data generated by MDEQ or other agencies.	TBD
10	PFOS/PFOA contamination via surface water to Lake Huron	Describe actions to mitigate PFOS/PFOA contamination via surface water into Lake Huron. Describe surface water detections to date. Indicate area that have been tested and additional areas that could be tested. [Note: Reference time 2:23:42 through 2:25:22 of 4/18/18 RAB video.]	TBD

Former Wurtsmith AFB Restoration Advisory Board Action Item Tracker FUTURE MEETINGS as of 5/7/18

No.	Meeting/Site Visit	Торіс	Comments	Location	Date/Time
1	Meeting	RAB meeting		Oscoda library	6 June 2018
					approx 5:30-7:30
2	Meeting	RAB meeting		Oscoda library	p.m. EDT 15 Aug 2018
				,	approx 5:30-7:30
					p.m. EDT
				<u> </u>	

Attachment 9

Former Wurtsmith AFB Restoration Advisory Board Meeting Attendance Tracker as of 4/18/18

Affiliation	Designation	8/2/17	9/19/17	11/1/17	2/13/18	4/18/18
	Communit	y RAB members				
Community RAB Co-Chair	Arnie Leriche	✓	✓	✓	✓	✓
Community RAB Member Place 1 (Primary)	Joseph Plunkey	\checkmark	\checkmark	\checkmark		\checkmark
Community RAB Member Place 1 (Alternate)	Daniel Stock	\checkmark	\checkmark	\checkmark	\checkmark	✓
Community RAB Member Place 2 (Primary)	Joseph Maxwell	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Community RAB Member Place 2 (Alternate)	Catherine Larive	\checkmark		\checkmark		\checkmark
Community RAB Member Place 3 (Primary)	Cathy Wusterbarth	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Community RAB Member Place 3 (Alternate)	Martha Gottlieb	\checkmark		\checkmark		
Community RAB Member Place 4 (Primary)	Matthew Hegwood	\checkmark	\checkmark	\checkmark		
Community RAB Member Place 4 (Alternate)	Martha Gottlieb				\checkmark	
Community RAB Member Place 5 (Primary)	Ryan Mertz		\checkmark	\checkmark		\checkmark
Community RAB Member Place 5 (Alternate)	Daniel Stock					\checkmark
Community RAB Member Place 6 (Primary)	Robert Tasior	~	\checkmark	\checkmark	\checkmark	~
Community RAB Member Place 6 (Alternate)	Irene Dunn	~	\checkmark	\checkmark		~
Community RAB Member Place 7 (Primary)	William Gaines	\checkmark	\checkmark	\checkmark	\checkmark	✓
Community RAB Member Place 7 (Alternate)	James Davis	\checkmark	\checkmark			
Community RAB Member Place 8 (Primary)	Jerry Schmidt	\checkmark	\checkmark	\checkmark	\checkmark	✓
Community RAB Member Place 8 (Alternate)	James Davis			\checkmark		
Community RAB Member Place 9 (Alternate)	Daniel O'Connor	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	Government RA	R members				
Government RAB Member: Air Force Co-Chair (Primary)	Matt Marrs	✓	✓	✓	✓	✓
Government RAB Member: Air Force Co-Chair (Other)						
Government RAB Member: Oscoda Township (Primary)	Tim Cummings		\checkmark	\checkmark	\checkmark	✓
Government RAB Member: Oscoda Township (Other)		John Nordeen				
Government RAB Member: AuSable Township (Primary)	Jeff Moss	✓	\checkmark	\checkmark	\checkmark	\checkmark
Government RAB Member: AuSable Township (Other)						
Government RAB Member: Michigan Department of						
Environmental Quality (Primary)	Bob Delaney	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Government RAB Member: Michigan Department of						
Environmental Quality (Other)						
Government RAB Member: Oscoda Wurtsmith Airport	Michael Munson	/	/	1	1	/
Authority (Primary) Government RAB Member: Oscoda Wurtsmith Airport	Michael Munson	v	v	v	v	v
Authority (Other)						
Government RAB Member: Department of Health District #2	2					
(Primary)	Chuck Lichon	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Government RAB Member: Department of Health District #2	2					
(Other)						
Government RAB Member: Michigan Department of Health		,				
Human Services (Primary)	Chris Bush	\checkmark		\checkmark		\checkmark
Government RAB Member: Michigan Department of Health	č.					
Human Services (Other)					Bill Farrell	
Government RAB Member: USDA Forest Service (Primary)	Tony Martoglio	\checkmark	\checkmark	✓	✓	\checkmark
Government RAB Member: USDA Forest Service (Other)	,					
Government RAB Member: USDA Forest Service (Uther)						