



## MEETING MINUTES

<b>JOB TITLE</b>	Midwest BECOS (Former Wurtsmith AFB)		
<b>PROJECT NUMBER</b>	FA89032002	<b>DATE</b>	30 November 2022
<b>TIME</b>	0900-1000 EST	<b>VENUE</b>	MS Teams
<b>SUBJECT</b>	Final November 2022 Wurtsmith AFB BCT Meeting Minutes		
<b>CLIENT</b>	AFCEC		

### ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Steven Willis	AFCEC	Beth Place	EGLE-RRD - Superfund
Bryan Lynch	AFCEC	Matt Baltusis	EGLE-RRD - Superfund
Jay Mullett	WSP	Nick Shorkey	EGLE-RRD - Superfund
Saamih Bashir	WSP	Lynn Gosson	EGLE-RRD - Bay City
Mitchel Dykla	WSP	Charlie Bauer	EGLE-WRD - Bay City
Justin Gal	WSP	Matt Siler	EGLE-WRD - Bay City
Jon Suhanic	LATA	Puneet Vij	MDHHS
Nick Robb	CTI	Mounica Nandula	MDHHS
Nick Butzin	CTI	Jeremiah Morse	AECOM
Terry Travis	CTI	Mark Weegar	Cherokee Nation
Paula Bond	Aerostar	Lee Major	Cherokee Nation
Willy Miley	Bay West	Andrea Stawowy	Cherokee Nation
		Ryan Morrish	Cherokee Nation

The Base Realignment and Closure (BRAC) Cleanup Team (BCT) meeting was held via teleconference. The meeting began at 0900 hours eastern standard time (EST) on 30 November 2022 and adjourned at 1000 hours EST. The meeting agenda is attached.

#### 1. Welcome and Introductions

- I. J. Mullett opened the meeting with an introduction and roll call.

#### 2. Air Force Updates

##### I. Air Force

- a) S. Willis stated that the Air Force is currently completing documents to be submitted to the Michigan Department of Environment, Great Lakes, and Energy (EGLE). The Air Force informed EGLE that they will be working on financial programming for fiscal year 2024 (FY024) for the next couple of months. B. Place requested to be kept up to date on document progress moving forward.

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### II. WSP/CTI – BECOS (Fieldwork and Documents)

- a) J. Mullett said that all 2022 sampling and gauging events have been completed and the remainder of the fieldwork for the year will consist of routine sampling and operations and maintenance (O&M).
- b) J. Mullett stated that excavation work to remove blockages on Ponds 3 and 4 in the Engineered Wetland Treatment System was completed in November 2022.
- c) J. Mullett stated that EGLE comments on the Wurtsmith Uniform Federal Policy – Quality Assurance Project Plan (UFP-QAPP) were received on 11 July 2022. Response to comments (RTCs) were prepared and are currently being reviewed by the Air Force. WSP anticipates the RTCs and document to be submitted back to EGLE by the end of December 2022.
- d) J. Mullett stated the Draft 2021 Annual Remedial Action – Operation (RA-O) Systems Report, and the Draft 2021 Annual RA-O Report are both currently awaiting Air Force backcheck and approval of the Redline version and RTCs. Both reports are anticipated to be submitted back to EGLE by the end of December 2022 or January 2023.
- e) J. Mullett stated the Wurtsmith UFP-QAPP Addendum is currently being prepared to incorporate new remedial action-operations (RA-O) activities associated with Task Order (TO)-07. A draft version is anticipated to be submitted to the Air Force by the end of January 2023.

### III. Bay West – Documents only

- a) W. Miley updated the group on the status of Bay West documents (See attached document tracker).
- b) J. Mullett stated that WSP received comments from EGLE on the Vapor Intrusion Action Plan (VIAP) Remedial Investigation (RI) Report, few comments remain unresolved but all will be answered in the follow on VI work. S. Willis stated the Air Force is finalizing RTCs and anticipates submitting them to EGLE by 9 December 2022. The follow-on comments will be discussed during the kickoff meeting for the new VI work. S. Willis added that the Air Force will schedule up a kickoff meeting and understands that EGLE cannot host a hybrid meeting.
- c) B. Place requested adding a column with submittal dates, or expected submittal dates, to EGLE to the document tracker. W. Miley agreed.

### IV. Aerostar – PFAS RI and IRA (Fieldwork and Documents)

- a) P. Bond stated that Aerostar will be adding documents regarding the Alert Aircraft Area Interim Remedial Action (IRA) to the Aerostar document tracker before the next BCT meeting.
- b) B. Place asked if EGLE would be receiving a data package and if a meeting will be scheduled regarding the Alert Aircraft Area IRA in January 2023. S. Willis replied that the modeling for the IRA is nearly complete, and a meeting is anticipated to be scheduled between the Air Force and EGLE before the end of December 2022. An initial date was offered up by the Air Force of 21 December 2022 to conduct this meeting. Members of EGLE would not be available and the meeting date was to be determined.

## 3. EGLE Updates

### I. EGLE Remediation and Redevelopment Division (RRD) – Superfund Section Updates

- a) B. Place stated that EGLE held a Michigan PFAS Response Team (MPART) meeting on 29 November 2022. During the meeting, residents had requested future meetings be held in person, rather than virtual. EGLE is currently evaluating this request. B. Place added that EGLE is planning to hire a new project manager but has not yet determined a hiring date.
- b) B. Place stated the groundwater/surface water interface (GSI) protection criteria has not yet been eliminated, and that EGLE will operate as if it is still in place until further notice.

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### II. EGLE – Bay City District Updates

- a) L. Gosson stated that the semi-annual Oscoda Township monitoring well sampling event is scheduled for January 2023. S. Willis asked if all monitoring wells are sampled during that event. L. Gosson replied that it is a portion of monitoring wells that rotates semi-annually.

### III. EGLE – WRD Updates

- a) C. Bauer stated that there are no significant updates at this time.
- b) B. Place asked if the Air Force had any updates on the water treatment system or the repair of the liner in the aqueous film forming foam (AFFF) retention pond near Hangar 7. P. Bond replied that Aerostar had taken storm water samples and provided the data to the Oscoda Wurtsmith Airport Authority (OWAA). This data will also be included in Aerostar's forthcoming RI Report. M. Siler stated that Oscoda Township conducted testing of the sediment in the sump pit of the AFFF retention pond and PFAS was detected. M. Siler asked if the Air Force has made any plans with Oscoda Township to remedy these issues. S. Willis replied that the Air Force is coordinating with OWAA as well as Oscoda Township on how to move forward with these issues. S. Willis added that Fleis and Vandenbrink (F&V) Operations had collected sediment samples from a portion of the sanitary sewer near the retention pond and the results indicated the presence of PFAS. S. Willis stated that the Air Force is working with Oscoda Township to remove the contaminated sludge from the sanitary sewer mains, as well as coordinating with OWAA to have necessary repairs made to the liner in the AFFF retention pond. OWAA, in conjunction with CTI, has pumped down the retention pond using the mobile cone bottom tank supplied by the Air Force, and plans to process the water through the Central Treatment System. With the retention pond pumped down, the repairs can be made to the liner to eliminate the source of contamination. M. Siler asked if there are any plans to sample the soil below the tear in the retention pond liner. S. Willis replied no, not at this time. R. Morrish stated that the repairs to the liner are scheduled to be conducted on 1 December 2022.

### IV. MDHHS – Fieldwork and new data

- a) P. Vij stated that there are no significant updates at this time.

### 4. BCT Meeting Discussion – New RA-O Tasks for 2023

- I. J. Mullett displayed the attached new RA-O Tasks for 2023 presentation. J. Mullett gave an overall introduction of the presentation. J. Mullett went through and presented the slides giving updates on the O&M of the newly installed IRA systems: FT002 at Clark's Marsh IRA and Van Etten Lake at Ken Ratliff Memorial Park IRA. J. Mullett talked about the transition of the O&M to BECOS. J. Mullett gave an overview of the In situ Anaerobic Biodegradation (IAB) Injections that will take place at SS057. J. Mullett discussed the plan to demolish the FT002 fire training building. Some key questions/comments are presented below:
  - a.) J. Mullett stated that after 30 days of collecting total residual chlorine samples from the biocide system at FT002, the Air Force will petition to have the sampling frequency reduced from daily to five (5) days a week.
  - b.) M. Baltusis asked if the planned set of tasks at SS057 are a continuation of the existing Bay West work plan. J. Suhanic of LATA replied yes, it is a continuation of the existing work plan. J. Mullett added that the formal scope of work would be detailed in the forthcoming UFP-QAPP Addendum.

### NEXT BCT MEETING

An invitation will be issued for the following dates:

- I. 1 February 2023 (Scheduled) 0900-1100 EDT –Virtual via MS Teams.
- II. 29 March 2023 (Proposed) 0900-1100 EDT – Tentatively Virtual via MS Teams.

## WURTSMITH BRAC CLEANUP TEAM (BCT) MEETING AGENDA

**DATE/TIME:** Wednesday, 30 November 2022, 9:00 a.m.-10:00 a.m. EST  
**LOCATION:** Virtual Meeting – Microsoft Teams  
**PHONE ACCESS:** (866) 670-1764, 227269656#

Topic	Purpose	Presenter	Time
Introductions			
Welcome and Introductions	<ul style="list-style-type: none"> <li>• Air Force Team Members (WSP-CTI-LATA, Aerostar, Bay West, Cherokee Nation) and other attendees</li> <li>• EGLE Team Members (MDHHS)</li> </ul>	AF  EGLE MDHHS	9:00-9:05
AF Updates			
AF Updates	<ul style="list-style-type: none"> <li>• <b>AF</b> – Priority Contracting Actions</li> <li>• <b>WSP/CTI/LATA</b> – BECOS – Major upcoming field events and critical document reviews</li> <li>• <b>Bay West</b> – PBR – Critical document reviews</li> <li>• <b>Aerostar</b> – Major upcoming field events and critical document reviews</li> <li>• <i>Updated document tracker to be displayed during above discussions</i></li> </ul>	AF	9:05-9:20
EGLE/MDHHS Updates & Discussion/Presentation			
EGLE Updates	<ul style="list-style-type: none"> <li>• <b>EGLE RRD</b> – Superfund Section Updates – Any new critical information</li> <li>• <b>EGLE – Bay City District Updates</b> – Any new critical information</li> <li>• <b>EGLE WRD Updates</b> – Any new critical information</li> <li>• <b>MDHHS Updates</b> – Any new critical information</li> </ul>	EGLE	9:20-9:35
BCT Meeting Discussion/Presentation – New RA-O Tasks for 2023 under BECOS	<ul style="list-style-type: none"> <li>• <b>New RA-O Tasks for 2023 under BECOS</b></li> </ul> <p style="margin-left: 20px;"><b>2023 Proposed Topics (Target Dates)</b></p> <ol style="list-style-type: none"> <li>1) <i>PFAS RI Update (January 2023)</i></li> <li>2) <i>Alert Apron IRA Update (March 2023)</i></li> <li>3) <i>Other Topics?</i></li> </ol>	LATA/WSP  All	9:35-9:55
Schedule Next BCT Meeting			
Future Schedule	<ul style="list-style-type: none"> <li>• 25 January 2023 (proposed) 0900-1100 EST – Tentatively Virtual</li> <li>• 29 March 2023 (proposed) 0900-1100 EDT – Tentatively Virtual</li> </ul>	Jay Mullett	9:55-10:00
<b>BCT Meeting Adjourns</b>			

# Wurtsmith BECOS – New RA-0 Tasks for 2023



BRAC ENVIRONMENTAL CONSTRUCTION OPTIMIZATION SERVICES (BECOS)  
MIDWEST REGION



30 Nov 2022

# Acronyms

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- **BECOS - BRAC Environmental Construction Optimization Services**
- **BTEX – benzene, toluene, ethyl benzene, xylenes**
- **CTS – Central Treatment System**
- **DRO – diesel range organics**
- **EPA – Environmental Protection Agency**
- **ERPIMs – Environmental Resources Program Information Management System**
- **GAC – granular activated carbon**
- **gpm – gallons per minute**
- **IAB – insitu anaerobic biodegradation**
- **IRA – Interim Remedial Action**
- **lb – pound**
- **LCES – LATA/CTI Joint Venture**
- **O&M – operation and maintenance**
- **PCBs – polychlorinated biphenyl's**
- **PFAS – perfluoroalkyl and polyfluoroalkyl substances**
- **PTS – pump and treat system**
- **QA/QC – Quality Assurance / Quality Control**
- **RA-O – Remedial Action Operations**
- **SAC - sacrificial**
- **TPH = total petroleum hydrocarbons**
- **TRC – total residual chlorine**
- **UFP-QAPP – Uniform Federal Policy for Quality Assurance Project Plans**
- **USEM – US Ecology Michigan**
- **VOCs – volatile organic compounds**
- **WTA – water treatment additive**

# Overview

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- O&M of New IRA Systems
- IAB Injections for SS057
- FT002 Training Building and Aid Demolition
- Future Additional Documents

# O&M of the New IRA Systems

- **FT002 PTS O&M (FT002 at Clark's Marsh IRA)**
  - Semi-annual GAC changeouts of three new 4,000-pound SAC vessels
  - Four additional GAC changeouts of one of the 20,000-pound vessels annually (lead vessel GAC changeout completed 31 October 2022)
  - Delivery and consumption of 15 330-gallon totes of biocide chemicals annually
  - Routine O&M including back flushing of GAC vessels
  - Non-routine O&M as needed to replace/repair/clean pumps and motors, & transducers
  - IRA system started on 22 August 2022. System sampling completed weekly/bi-weekly in accordance with IRA Work Plan. Biocide system, after tweaking, started full operation on 7 November 2022. Daily TRC readings collected in accordance with the WTA Response Letter dated 16 September 2022.
  - Baseline sampling event conducted August 2022. 1<sup>st</sup> Quarterly monitoring well samples collected week of 31 October. Two additional rounds (Feb & May 2023) planned to monitor extraction well effectiveness for first year



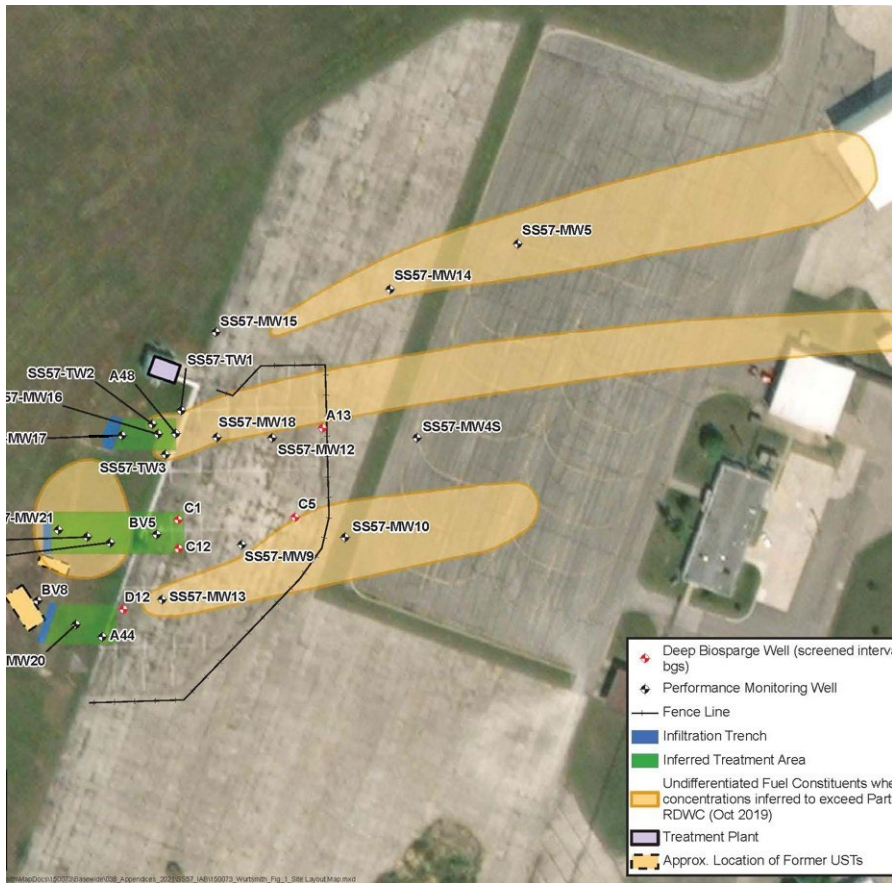


# O&M of the New IRA Systems

- **CTS O&M (Van Etten Lake at Ken Ratliff Memorial Park IRA)**
  - Four additional GAC changeouts of one of the 20,000-pound vessels annually (spent GAC reactivated)
  - Routine O&M including back flushing of GAC vessels
  - Non-routine O&M as needed to replace/repair/clean pumps and motors, replacement of flow meters & transducers. Semi-annual line jetting events to maintain target flow rates
  - IRA system started on 17 October 2022. System sampling completed weekly/bi-weekly in accordance with IRA Work Plan
  - Baseline sampling event conducted August 2022. 1<sup>st</sup> Quarterly monitoring well samples collected week of 7 November. Two additional rounds (Feb & May 2023) planned to monitor extraction well effectiveness for first year
  - Transportation and disposal of up to 10, 1 cubic yard supersacks of PFAS solid waste from the filter press
  - Optimization of the Benzene Plant conveyance lines to reduce pressure loss and increase flow rates



# IAB Injections – SS057



- Based on recent analytical data, LCES will apply IAB solutions to the three infiltration trenches on a semiannual basis beginning in April 2023.
- LCES plans to conduct quarterly performance sampling (beginning in January 2023) from 28 performance monitoring wells with QA/QC samples for the following parameters:
  - Groundwater quality parameters;
  - VOCs (EPA SW-846 Method 8260B);
  - Nitrate/Nitrite; Hach® field test strips;
  - Phosphate; Hach® field test strips;
  - Microbial enumeration (total heterotrophic plate counts); and
  - Well riser headspace gas measurements (GEM 2000).
- LCES will provide quarterly data usability reports and ERPIMS submissions for analytical data collected during the performance of this task.

# FT002 Training Building and Aid Demolition

- LCES will perform inspections, sampling, and analysis to confirm the lack of asbestos containing material, PCBs, lead and lead based paint, BTEX, TPH, DRO and VOCs contamination.
- LCES will provide the information in a waste profile to USEM, to gain acceptance for the disposal of demolition debris from both the training building and training aid, which is an above ground tank. USEM will provide both transportation and disposal of materials from this project.
- LCES will mobilize necessary equipment, labor, and support facilities to demolish, size reduce, load, transport, and dispose of the building and tank materials.
- The disturbed areas will be seeded, fertilized, and mulched to blend with surrounding area.
- LCES will provide photographic and written documentation of the demolition and disposal activities.
- Tentative schedule: 7/10/23 - 7/21/23



# Future Additional Deliverables

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- UFP-QAPP Addendum will be completed in association with these new RA-0 tasks
- Proposed Plan/Record of Decision will be completed for SS017

# Discussion

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- Questions?