APPENDIX I

Compiled Site Reconnaissance Logs

ARCADIS Design & Consultancy for natural and built assets

Site Reconnaissance Log

Installation: APG **State:** MD

Date: 5/23/18
Potential AOPI Name: ~~A~~ EF-12A
Latitude/Longitude: wanted. disco. relieve
Field Personnel: M. Blower / S. Eckel
Site Contact/Title:
Weather: Sunny.

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: None.
Product Released & Volume:
Other Notes: No use of AFFF documented/remembered.

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:

Migration Potential:

Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

Simple view of area on way to EF-12

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

Miscellaneous Notes

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

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N

Site Reconnaissance Log

Installation: APG **State:** MD

Date: 5/23/08
Potential AOPI Name: EF 12 historically named EF-12/12A
Latitude/Longitude:
Field Personnel: Eckel Blower
Site Contact/Title: James Leviere
Weather: Sunny clear mid 80's

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: no recollection of foam use
Product Released & Volume:
Other Notes: FD would stand by, but no one can recall actual foam use

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:

Migration Potential:

Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

gravel / grass
prior 12A pad is current location of small ramp

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

blew up fuel cells / tanks

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

Similar to Fuse Range

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

Miscellaneous Notes

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

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Site Reconnaissance Log

Installation: APG **State:** MD

Date: 5/23/18
Potential AOPI Name: EF-15
Latitude/Longitude: negotiator opting. indexes
Field Personnel: M. Blower / S. Eckel
Site Contact/Title:
Weather:

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency:
Product Released & Volume:
Other Notes: Site Visit not completed due to classified testing

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:

Migration Potential:

Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

- Surface mostly tarmac, gravel and grass on edges.
- Spesutie Narrows immediately NW of pad area, erosion appearing to be a large issue for area.

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

- Spesutie narrows to NE (~100'), feeder to Chesapeake.

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

Miscellaneous Notes

- Visited briefly, could not access due to restricted test.

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

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Site Reconnaissance Log

Installation: APG **State:** MD

Date: 5/23/18
Potential AOPI Name: EF 15
Latitude/Longitude:
Field Personnel: Eckel Bleaver
Site Contact/Title: James Leviere
Weather:

Visit not completed but stopped at pad to view from vehicle

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency:
Product Released & Volume:
Other Notes:

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:
Migration Potential:
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

gravel

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

No running water

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

directly on Spesutie Is Narrows

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

to wet areas & Narrows

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

Miscellaneous Notes

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

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Site Reconnaissance Log

Installation: APG **State:** MD

Date: 5/23/18 M.B

James will send time frame specs.

Potential AOPI Name: ~~FUZE AB FUSE Area~~ Fuze Range

Latitude/Longitude: Scornful. rangers. body

Field Personnel: M. Blauer / S. Eckel

Site Contact/Title:

Weather: Sunny

↳ Called to learn while on site

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: 15/year. From 90's (93) to 2013

Product Released & Volume: AFFF

Other Notes:

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When: Continuous

Migration Potential: Back Creek (200' N of site location)

Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

Coarse gravel.

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

- took material and dumped it in ~~the~~ storage tanks
- Original, never updated. As built. ~~Test~~ pad used to extend outward another 100' feet or so.
- Drain pipes sticking out of sides, F.D ~~the~~ would tie on to and drain

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

- Retention Pond to west of test pad
- Back Creek also to ~~west~~ NNW
- Retention pond now filled w/ Plants

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

- Again, into creek (Back Creek) Approx 200' N of ~~AOPI installation~~ M.B site location.

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

- Fuel cells present on site. Discussion of using AFFF on detonated/ignited cells, no memory of using it.
- Likely spray all over sight.

Miscellaneous Notes

- Would douse entire ~~steel~~ test box w/ AFFF
- Would detonate tanks inside steel test box
- 2,500 gal tanks. ~~1 for JP-8 fuel, one~~ M.B for waste. Both
-

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

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Site Reconnaissance Log

Installation: APG **State:** MD

Date: 5/23/18
Potential AOPI Name: Fuze Range
Latitude/Longitude:
Field Personnel: James Leviere
Site Contact/Title: Eckel Blower
Weather: sunny calm mid 80's

Sources

Recognized Primay Source (circle):
Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency:
Product Released & Volume:
Other Notes:

Recognized Secondary Source(s) (circle):
Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:

Migration Potential:
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

Specific Is all ARL except 1 ATE range

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

no running water
~ few hundred ft long w/ 8-10' high walls w/ doors & windows
no ows pan pumped out or scooped out w/ buckets from floor into tank for disposal

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

Near Bay, wetlands directly W Back Creek on other side of trees

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

FD thread onto drain to pump out

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

"OWS" tanks were on gravel area to N of containment area

10-15 shots/yr starting ~'93 til ~5yrs ago

Miscellaneous Notes

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

Action Item

~~timeframe of testing~~ done

aerial photo of historical foot print of containment area

Poverty Island ~~mine~~ field - ~~...~~.

Matt Blower
Suzzane Eckel
Amar Wadhawan
for site recon

→ Hazel Cassady - PI facilitator

→ mine pits - ~~...~~ steel boxes

→ ↳ put soil ~~...~~ test vehicle

↳ waste taken to haz waste contract through ~~...~~ Jason contract

→ Blue barrel - 3% AFFF

→ OWS sampled before discharge

↳ ↳ depends on analysis

↳ disposal to w/w or else where

→ 35 yr ago dig a hole, line w/ plastic to shoot.

~~...~~ would call the fire dept - waste dispose through the contractor

→ ~~...~~ right now using Chemgard - MSDS?

→ Stored using foam 10-12 yrs ago so late 1990s

→ Also used PI-12

→ mine pits :- about 10 year or less.

24 x 24 x 10 ft deep.

→ ~~Soil~~

→ Oil contaminated soil stored at ~~...~~ 5

→ Storage in 55 gal drum - order directly

↳ fire suppression cannon

↳ O~~...~~ array flushing would go to the OWS

↳ OWS put in early 1990s

Other test pad on Poverty Island.

↳ ~~...~~ PI-18 never used - one pad

↳ PI-12 - vehicle fire suppression - FM200 - 2 pads.

↳ no mine pit

↳ all supp

around 1992

↳ ~~we are at Poverty~~

↳ 2 x 55 gal drums in storage

↳ no leaks of the drums

↳ fuel spills covered using pig kits.

AA5 – Cleveland Foster

→ Box – 6ft deep
→ 10–20 times use of foam in the past year & a half.
→ 50–100 gal total in that timeframe.
→ Foam used only for the fuel based fire
→ for Four cannons / suppersion system
→ MSDS of the foam
→ One pad one box
→ Site been on the range 07 & pads always been there
→ Glenn Smith – 1986
  ↳ started at AA4 @ 1980
  ↳ AA5 no there then
  ↳ Pads got put in around end 1983-84, no fire suppression went in
  ↳ did open air testing before the pads.
→ no fire suppersion @ 500m, no pads, just bottles
  ↳ no foam used then, money & suppersion
→ minimal spillage
→ tank ready for drum.
→ waste soil stored under the Shed.
→ 2 pads – one box
→ no potable wells down range.
→ but one well for the uprange complex (bldgs) use but no drinking

no AFFF used for brush fire

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Site Reconnaissance Log

Installation: Aberdeen Proving Ground **State:** MD

Date: 5/22/18
Potential AOPI Name: Poverty Island - Minefield
Latitude/Longitude:
Field Personnel: Matt Blower, Amar Wadhawan, Suzanne Eckel
Site Contact/Title:
Weather:

Sources

Recognized Primay Source (circle):

(Fire) Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: 3-4x / Year
Product Released & Volume: AFFF
Other Notes:

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, (Surface Water Flow Pathway) Potential for Groundwater Infiltration, Other:

When:
Migration Potential: Surface Water Runoff Possible
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

- Muddy area w/ smaller grass covered hills. Rocky eroded rock parking areas.
- Access available by road.

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

- 35 years ago, used to dig hole, line w/ plastic.
- Would call FD to put out fires.
- No idea if FD used foam
- 10-15 years ago (late 90's) started using foam
- Use foam on PI-12
- Pads went in approx. ~~5~~ 10 years ago.

- Mine Pits installed w/in 10 years (24'x24'x10')

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

- Surface water everywhere (Per se)
- Groundwater high, @
- Standing puddles, no obvious surface water around area

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

- OWS recently replaced and installed

PI-18
- 1 pad/never used

PI-12
- Vehicle suppress.
- FM 200/Halon
- Will have a fire on enviro Pads
- Vehicle Sys/ System usually took care of fires.

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

3% AFFF Concentrate. MSDS available @ AS
Water-oil seperators sampled before taken away.
Store contam. soils @ AAS before taking to waste management.
Since 70's, soil went through waste management.

Miscellaneous Notes

- Mine Pit- Steel box filled w/ dirt, fill dirt w/ items, set w/ charges. Take dirt to
- Haz Waste disposal
- Concern foam may slide from seperators.
- Two water tanks available for filling. Sampling determines how they'll get rid of it.
- May use 3-4x/year. Typically systems

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

Stored/Use
- AFFF ordered
- Stored in barrel
- Used directly from barrel
-

:Action Item
- Get MSDS for AFFF
- Plans for oil-water seperator
- Check purchase rec's w/ Kelsie
- How drums were disposed of
- Waste logs for soil disposal
-

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Poverty Is I
AAS
~~H pad~~ge

Site Reconnaissance Log

Installation: APG **State:** MD

Date: 5/22/18
Potential AOPI Name: Poverty Island Range Mine Field
Latitude/Longitude:
Field Personnel:
Site Contact/Title: Hazel Cassady / PI Facilitator
Weather:

APG 37 yrs PI 12 yrs

↖ 1 pad + 1 mine box

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: 3 - 4 Times per Year
Product Released & Volume: AFFF
Other Notes:

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:
Migration Potential:
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

Mine Field started operation as long ago as can recall

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

Store in white bldg

OWS recently replaced in same footprint
old OWS may have been ~ 30-40 yr old

started op ~1992 ↙ 2 pads w/ OWS

started op ~1992 ↙ Env Pad at PI 18 never used
↖ 1 pad w/ OWS

PI 12 vehicle fire suppression mostly vehicle system all is needed

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Un- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

AFFF are mobile units total 6 in PI

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

everywhere SW

GW ~ 6' & tidal

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

mine pits ~ 10 yr ago 24'x24'x10' → soil disposed through Garrison waste contractor after analysis
~ 35 yrs ago didn't have pads dig hole
started using AFFoam ~ 10-15 yr ago

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

AFFF foam used 1st if fuel fire. Idea is to get it out fast & not destroy vehicle
most times on EnvPad → EnvPad to OWS → tank for disposal depending on analyses or MinePit (steel box filled w/ dirt dirt disposed)

Miscellaneous Notes

3% AFFF → ARS has MSDS
→ may use it 4-5 x/yr

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

Action Items

AFFF MSDS

storage bldg (one "white bldg" corrugated steel) 55 gall plastic drums

OWS / Drainage system plans

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Site Reconnaissance Log

Installation: A.P.G **State:** MD

Date: 9/24/19
Potential AOPI Name: ABR-3
Latitude/Longitude:
Field Personnel: Amar Wadhawan, Matt Blower
Site Contact/Title:
Weather: Fair - Sunny

Sources

Recognized Primay Source (circle):

(Fire) Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: Data gap, determine
Product Released & Volume: AFFF
Other Notes: Test Area (Aircraft)

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, (Surface Water Flow Pathway) Potential for Groundwater Infiltration, Other:

When: Data Gap, determine
Migration Potential: Swale into drainage point, no surface water body, groundwater contamin.
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

Concrete swale against edge of cement test pad, only area where berm stops. Likely drainage point.

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

No sign of OWS or drainage management system. Free flow.

On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

- Check EDR

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

- None near

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

- See Page 1

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

- Destroyed Planes around area

Miscellaneous Notes

- Definite use of AFFF

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

Action Item

- Get contact for ABR-3 manager

-

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Site Reconnaissance Log

Installation: APG **State:** MD

Date: 5/24/18
Potential AOPI Name: Old FD Building (500)
Latitude/Longitude: 39°28'29.88"N 76°07'06.23"W
Field Personnel: Amar Wadhawan, Matt Blower
Site Contact/Title: Asst. Fire Chief Mike Livezey
Weather: Sunny/ Fair

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: 1917 (very early) - 2000's
Product Released & Volume: AFFF, truck wash
Other Notes:

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:

Migration Potential:

Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

- Cement, borders tarmac road. Cracks in truck wash area. Photos taken.

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

- No entry visible. Elevated manhole (sewer) visible to ~~we~~ N.B eastern side of truckwash area.

On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

- See Monitoring well map

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

- None near area

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

M.B

- ~~None visible.~~ Sewage manhole visible
- Drain by side of road

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

- No longer used. Storage location.

Miscellaneous Notes

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

Subject	Site Recon - Aberdeen Fire Station		
Project No.			Sheet
Calculations By	Date	Checked By	Date

- Drainage swales to right(North) + left(South) of front of station/"vehicle wash area"/vehicle apron
- Main drain ~~off~~ at center of wash area/vehicle apron.
- photos taken.

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Site Reconnaissance Log

Installation: APG **State:** MD

Date: 5/24/18
Potential AOPI Name: Storage Area ESOOS / Training Area
Latitude/Longitude: 39°23'57" N, 76°17'47"
Field Personnel: Amar Wadhawan, Matt Blower
Site Contact/Title: M. Livezey
Weather: Sunny

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: ~~1990-2005~~ M.B (1970's - 1990's, demolition 2005)
Product Released & Volume: AFFF / lots
Other Notes: Arch testing practiced here, foam used freely, area used as training area in past

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, (Potential for Groundwater Infiltration), Other:

When: ~~1990-2005~~ M.B (1970's - 1990's, demolition 2005)
Migration Potential: Soil absorbtion / groundwater infiltration / leaching
Other Notes: Sewer entryway also present

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

- Flat, grassed field area. Trees visible around location of demolished building.

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

- Sewage drain sws of old use ESOOS Building

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

- Check Edr

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

- None visible

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

- Drainage/sewer inlet adjacent to old building location (Photo taken) WSW of building location 20'

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

- Overgrown, grass (tall), abandoned

Miscellaneous Notes

- Used as an AFFF storage area for Edgewood F.D
- Also Fire Training area, No Fire.

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

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Site Reconnaissance Log

Installation: APG - Edgewood **State:** MD

Date: 5/24/18
Potential AOPI Name: Bldg E5005, AFFF storage bldg & training area
Latitude/Longitude:
Field Personnel: A. Wadhawan, M. Blower
Site Contact/Title:
Weather: Sunny

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: 1970s to 1990s
Product Released & Volume: AFFF
Other Notes:

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When: From 1970s to 1990s, demolition ~ 2000s
Migration Potential: sewer line
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

grass & brush, area, surrounded by commercial bldgs, roads, gas station ~~station~~

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

Commercial bldgs, & roads, & gas station

On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

Miscellaneous Notes

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

ARCADIS Design & Consultancy for natural and built assets

Site Reconnaissance Log

Installation: APG-Edgewood **State:** MD

Date: 05/24/18
Potential AOPI Name: Edgewood Firestation Building E5180
Latitude/Longitude: Check photos
Field Personnel: Amar Wadhawan, Matt Blower
Site Contact/Title:
Weather: Sunny

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: Repetitively
Product Released & Volume: Unknown / Less than 5 gal discharge possible.
Other Notes:

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When: Repetitively
Migration Potential: Surface drainage ditch running parallel to station wash area.
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

- Paved, cement driveway/wash area for fire-trucks, grass surrounding building, surface easily accessible

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

- Sewer grates visible and unblocked around firetruck cleaning area (front) Photos taken.

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

- Will check EDR later

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

- Drainage ditch to North (Photo taken) never empty, says Mike.

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

- Drainage grates to NE of building, 2 photos
- 1 main drainage, would have taken in majority of waste run-off. Drainage located in center of truck driveway

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

- Current fire station, no previous investigations

Miscellaneous Notes

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

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Site Reconnaissance Log

Installation: APG-Edgewood **State:** MD

Date: 5/24/18
Potential AOPI Name: Edgewood fire station
Latitude/Longitude:
Field Personnel: Amar Wadhawan; Matt Blower
Site Contact/Title:
Weather:

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency:
Product Released & Volume:
Other Notes: Rinse/washing of trucle & fire fighting equipment. Also foam sprayed on tree by the picnic bench

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:

Migration Potential: Surface drain
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

Paved / Asphalt roads w/ patches of surrounding grassy areas. / down

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

fire station w/ surface drain

On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

→ Surface drain receiving equipment wash liquid.
→ drainage trench down from the wash area
→ vegetation surrounding the tree that was sprayed w/ AFFF

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

Fire Station

Miscellaneous Notes

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

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Site Reconnaissance Log

Installation: APG - Edgewood **State:** MD

Date: 05/24/18
Potential AOPI Name: Helicopter Target - Tank test site (H-Field)
Latitude/Longitude: engines.unlicensed.simmer
Field Personnel: Amar Madhavan, Matt Blower
Site Contact/Title:
Weather: Sunny

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: Once (~1991-1992 or Mid 1990's)
Product Released & Volume: Likely 30-50 gal
Other Notes: Helicopter doused w/ AFFF after tank test. (Helicopter was target)

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When: Once (~1991-1992 or Mid 1990's)
Migration Potential: Discharge to Chesapeake Bay, groundwater infiltration.
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

Marsh land area,

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

None, bare grassed areas

On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

- See EDR

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

- Marsh area.

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

- Rivers feeding into Chesapeake.
- Swamp/Marsh area surrounding AOPI

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

- Still in use for testing activities.
- Helicopter tower since been demolished.

Miscellaneous Notes

- Helicopter parked on tower, tank fire test aimed to knock off ~~tank~~ helicopter. Occured in early 90's. (92-96). Helicopter doused in AFFF.

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

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Site Reconnaissance Log

Installation: APG - Edgewood **State:** MD

Date: 05/24/18
Potential AOPI Name: Helicopter Target - Tank test site (H-Field)
Latitude/Longitude: engines.unlicensed.simmer
Field Personnel: Amar Madhavan, Matt Blower
Site Contact/Title:
Weather: Sunny

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: Once (~1991-1992 or Mid 1990's)
Product Released & Volume: Likely 30-50 gal
Other Notes: Helicopter doused w/ AFFF after tank test. (Helicopter was target)

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When: Once (~1991-1992 or Mid 1990's)
Migration Potential: Discharge to Chesapeake Bay, groundwater infiltration.
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

Marsh land area,

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

None, bare grassed areas

On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

- See EDR

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

- Marsh area.

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

- Rivers feeding into Chesapeake.
- Swamp/Marsh area surrounding AOPI

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

- Still in use for testing activities.
- Helicopter tower since been demolished.

Miscellaneous Notes

- Helicopter parked on tower, tank fire test aimed to knock off ~~tank~~ helicopter. Occured in early 90's. (92-96). Helicopter doused in AFFF.

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

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Site Reconnaissance Log

Installation: APG-Edgewood State: MD

Date: 05/24/18
Potential AOPI Name: Tank Fire accident area. (H-Field)
Latitude/Longitude:
Field Personnel: Amar Wadhawan, Matt Blower
Site Contact/Title:
Weather: Sunny

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, (Other:) Vehicle Fire

When/Frequency: Once (2009)
Product Released & Volume: 30-50 gal of AFFF
Other Notes: Used to put out tank in an emergency

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, (Surface Water Flow Pathway,) Potential for Groundwater Infiltration, Other:

When: Once (2009)

Migration Potential: Marsh area, flow/runoff directly into Bush River / Chesapeake.
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

Marshy, high water table.

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

None visible

- Small ~~water~~ river/creek running through area

-

On- or Off-installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

- Monitoring wells scattered across location, see EDR

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

- Creek running to East of H-field, into ~~Bush River~~ M.B Bay

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

- ~~None visible~~ M.B (Incorrect section for answer)
- Drainage (natural) into Chesapeake Bay, groundwater infiltration also possible.

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

- Overgrown marshy area, area still used for testing.

Miscellaneous Notes

-

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

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Site Reconnaissance Log

Installation: APG - Edgewood **State:** MD

Date: 5/24/18
Potential AOPI Name: Old Casey Yard
Latitude/Longitude:
Field Personnel: Amer Wadhawan; Matt Blower.
Site Contact/Title:
Weather: Sunny

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: 50gal/per exercise per quater. , 4yrs in the 1990s.
Product Released & Volume:
Other Notes: Foam used as part

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:

Migration Potential: Bush river
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

Industrial bldgs, seven is surrounded by roads, & other bldgs

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

→ paved/asphalt roads, parking areas

On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

Bush River

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

Bush river

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

Now a RV parking lot w/ Abandoned bldg.

Miscellaneous Notes

→ Also dirt/concrete pile in the adjoining area

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

ARCADIS Design & Consultancy for natural and built assets

Site Reconnaissance Log

Installation: APG - Edgewood Area **State:** MD

Date: 5/24/18
Potential AOPI Name: Casey Yard (chem D-Mill site)
Latitude/Longitude:
Field Personnel: Amar Wadhawan; Matt Blocher
Site Contact/Title:
Weather: Sunny

Sources

Recognized Primay Source (circle):
Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: 4 years, 90's
Product Released & Volume: Max 50 gallons per excercise. 1 per quarter.
Other Notes: foam used as suppressant for chemical release.

Recognized Secondary Source(s) (circle):
Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:
Migration Potential: Bush River
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

- Gravel, grass growing in between cracks

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

- ~~None to note,~~ M.B
- Building (abandoned), to east of old storage yard
- No visible sewer lines/inlets/or sewers

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

- None visible

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

- No surface water, see below

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

- None visible, Paved surface
- Bush River to East (approx. 700' downhill)

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

- Now an RV farm

Miscellaneous Notes

- Suppressed vapors w/ foam for quarterly chemical testing
-

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

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Site Reconnaissance Log

Installation: APG **State:** MD

Date: 05/24/18
Potential AOPI Name: Additional Storage Building across from Buil. 1054
Latitude/Longitude: 39° 28' 20" N, 76° 10' 13" W
Field Personnel: Amar Wadhawan, Matt Blower
Site Contact/Title: Asst. Fire Chief Mike Livezey
Weather: Fair - Sunny
(4 Photos taken)

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: Unknown
Product Released & Volume: ~~AFFF~~, likely released during vehicle wash
Other Notes:

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:

Migration Potential:

Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

- Tarmac, cement. No grass w/in truck vicinity.

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

- Check EDR

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

- None within proximity of area

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

- Inside

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

- Crash truck stored in M.B building.

Miscellaneous Notes

- 8 barrells (55gal) of National Foam Aero-Lite 3% AFFF
- Small Silvex barrels as well.
- Foam capacity listed on inside of door

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

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Site Reconnaissance Log

Installation: APG **State:** MD

Date: 5/21/2018
Potential AOPI Name: Old MFRI - currently ATC building 1074
Latitude/Longitude:
Field Personnel: Kate, Suzanne, Ankit, Mark, Brant, Dave
Site Contact/Title: Dave Goad
Weather: Sunny, 80s°F

Sources

Recognized Primay Source (circle):
Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:
various entities used 80's - 2000s for training

When/Frequency: Prior to 5-10 yrs ago, fire training MFRI before relocation to Edgewood
Product Released & Volume: Firefighting training, light & extinguish fires
Other Notes: Fire dept has records

Recognized Secondary Source(s) (circle):
Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When: Fire training

Migration Potential: Stormwater ditch Romney Creek to west, originates in golf course
Other Notes: Dave noted that this would not have been regraded for test track

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

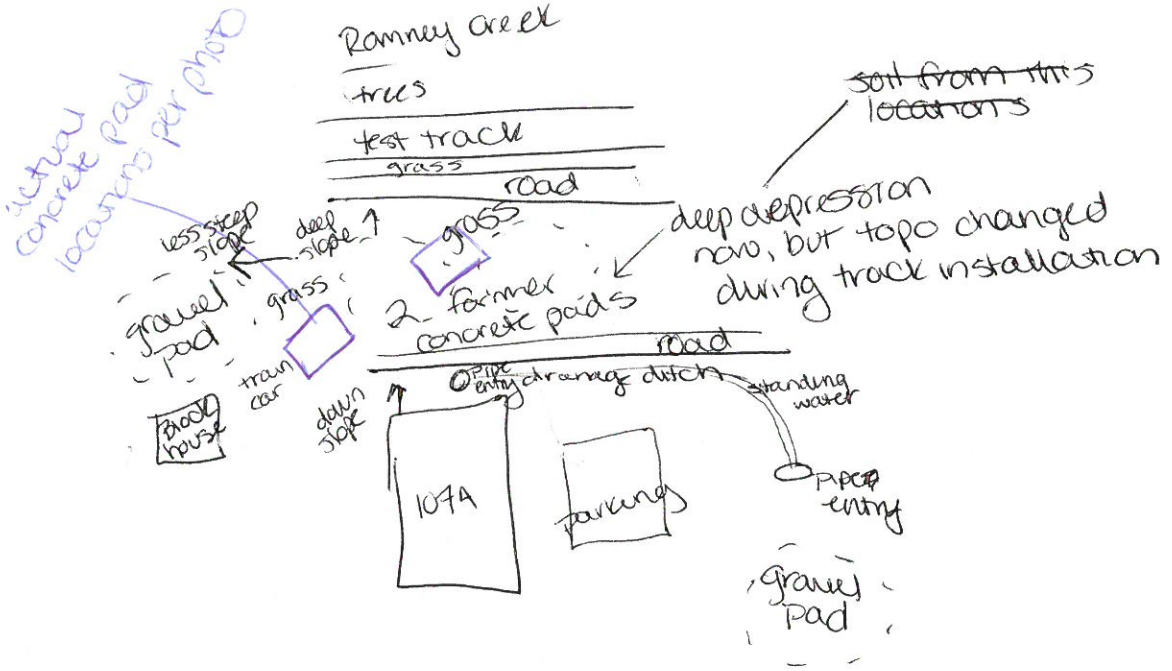
Pavement, grass

See diagram on next page

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

See diagram

(KB & SE's notes compilation)



drainage swales on north end of airfield → maybe this is connected? → wraps into Ramney Cr.

Soil cut from test track area would have been redistributed for project or added to soil pile location marked on Suz's Map 1.

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

MWs available from TCE plume study

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

Romney Creek

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

see diagram

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

Miscellaneous Notes

Action items

- ☐ GIS SW drainage
- ☐ Look at historical aerials for pad locations

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

Dave noted he remembered a pipeline needed to be considered. Didn't remember where exactly.

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notes included in Katie's Recon Log

Site Reconnaissance Log

Installation: APG **State:** MD

Date: 5/21/18
Potential AOPI Name: Bldg 1074 old MPRE site
Latitude/Longitude:
Field Personnel: Dave Goady Gupta Barry Eichel
Site Contact/Title:
Weather: sunny warm

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: various entities used 80's - 2000's
Product Released & Volume:
Other Notes:

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:
Migration Potential: Romney Creek to ~W originate in golf course
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

grass around bldg & test track
some concrete & gravel test pads (former)

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

unknown

concrete pad reder soil cut
& used else where on track
soil not used in pile @ N end of airfield

On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

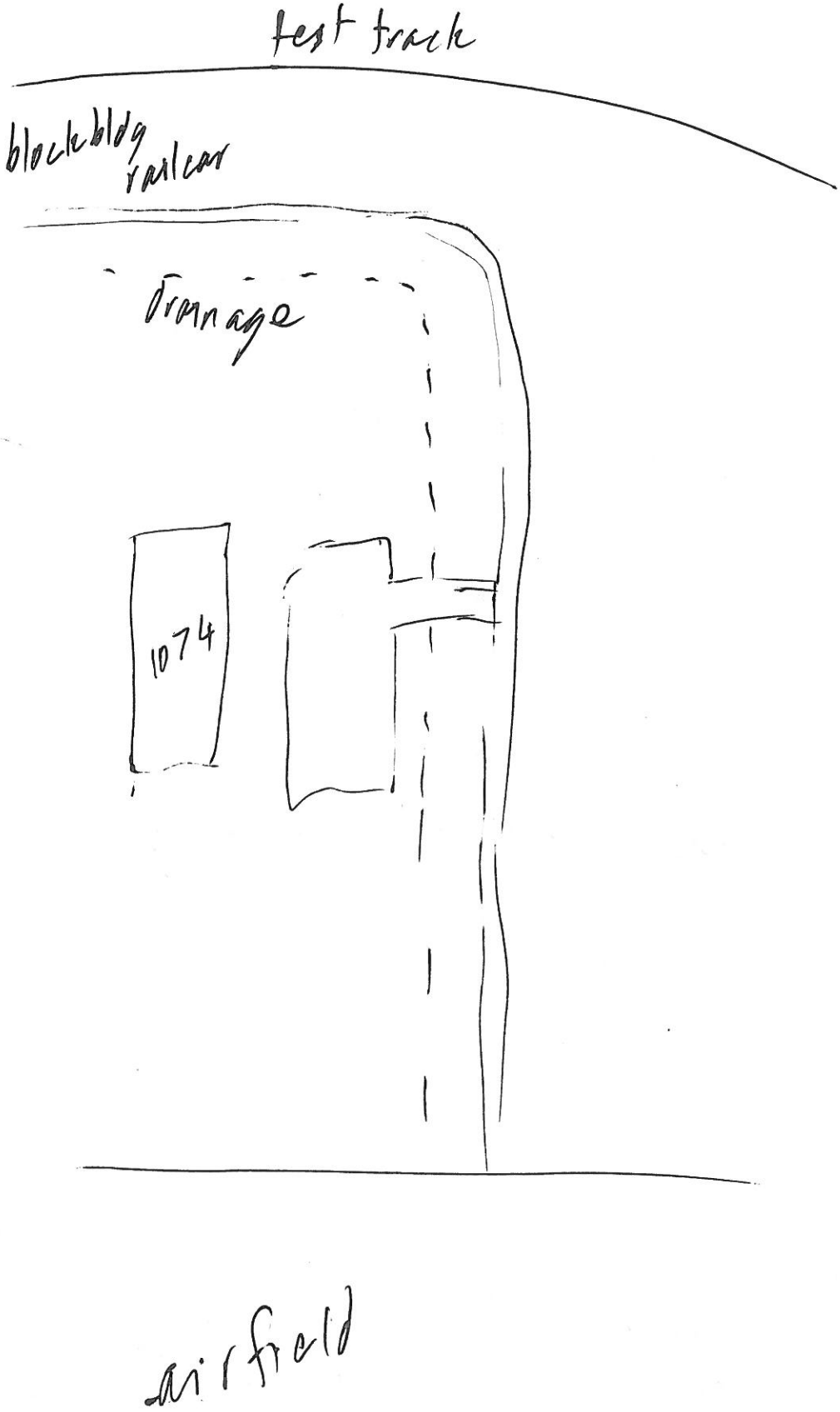
Miscellaneous Notes

block bldg & rail car in SW corner

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

Action Items
GIS SW drainage
historical aerial photos for test pads



Old MFRI Fire Training Area Sketch

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Site Reconnaissance Log

Installation: APG **State:** MD

Date: 5/21/2018
Potential AOPI Name: Phillips Airfield
Latitude/Longitude:
Field Personnel: Katie, Ankit, Suzanne, Ed, Dave, Brant, Kelsea
Site Contact/Title: Dave Goad, ATC
Weather: Sunny, ~80° F

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: AFFF testing, ~2 years (?) check w/ Fire Dept
Product Released & Volume: 6' depth in whole hangar
Other Notes: No known accidental or emergency releases

Ed will send Dave photos.

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When: AFFF testing, blew AFFF outdoors
Migration Potential: see diagram
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

Concrete floor in hangar

Grass, asphalt outside

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

Building in 1940s (43-44)

Used to have floor drains, Plugged 4-5 yrs (prob DPW?)
Now have to wash planes outside

Foam tank - feeds hangar fire suppression system

2 fire pumps - 1000s gal water

mixes w/ foam

aerators in roof

staining on concrete under tank

Viking 830d foam

Building 1060

- testing of system - last time ~2016
  - ~6' high
  - vac trucks clean up
- historically blew at w/ fans
- No known actual fires
- No known accidental releases
- 1980s foam system?

None since 2009 - emergency

Gary Miller (5 yrs) - still at APG, not here now
John

} previous in his role

☑ chemical ive agent surrounded by foam

☐ Bambi Buckets - used to use AFFF - follow up w/ Ed

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

Many monitoring wells for TCE plume

Prevailing w/ from SW

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

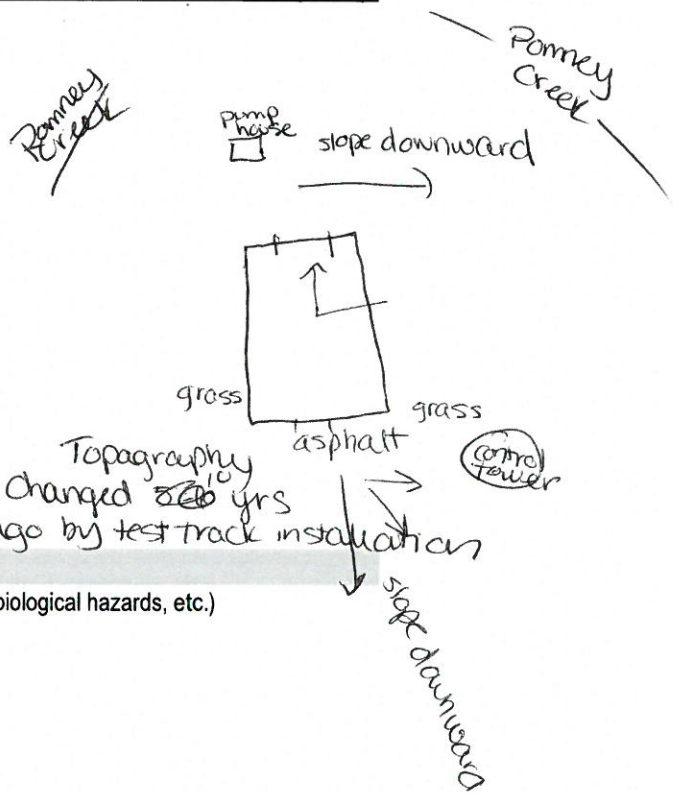
Romney Creek

Doesn't pool in grassy areas

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

grass, asphalt

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):



Miscellaneous Notes

Asphalt outside hangar, grassy to each side

Used to use AFFF in Bambi Buckets (4-5 gal), now the buckets are too big for it (40 gal).

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

Currently used hangar, airfield

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Site Reconnaissance Log

Installation: APG **State:** MD

Date: 5/21/18
Potential AOPI Name: Hangar 1060 built 1943-44
Latitude/Longitude:
Field Personnel: S. Focht, K. Barry, A. Gupta
Site Contact/Title: Ed former Gary Miller John Maller
Weather:

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency:
Product Released & Volume:
Other Notes:

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:

Migration Potential:
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

Concrete hangar floor, drains plugged 5-6 yr ago
asphalt apron around hanger old/cracked

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

500 gal AFFF tank little staining under AST

Mix water w AFFF

looks like ability to use foam or water alone may be deluge system too d for admin area

system tested but no known actual fire use

Fire water tank bldg N of hangar

diesel engines pump water to suppression system

Test track ~ 10 yr old changed topo

Action Items

Ed BAMBI bucket use for foam when 45 gallon

AFFF test pictures

FD AFFF manufacturer

Drain maps GIS layers

bomb loading ramp for Tuesday

Gary Miller former person in position

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

Rodney Creek branches E & W, converges to S

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

standing water not recommended around an airfield

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

Miscellaneous Notes

Good no Bldg 1092 knowledge

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

Floor drains closed 5-6 yr ago

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Site Reconnaissance Log

Installation: APG **State:** MD

Date: 5/22/2018
Potential AOPI Name: G-Street Fire Training Area
Latitude/Longitude:
Field Personnel: Katie, Ankit, Rhonda, Jeff
Site Contact/Title: Allison O'Brien
Weather: Drizzling, 70s

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: G-Street FTA Burn Residue Disposal Area
Product Released & Volume:
Other Notes:

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:

Migration Potential:

Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

Grassy, meadow, trees arand edges

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

None observed

On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

MWs present

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

drainage away from G-Street

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

Part of RI

Miscellaneous Notes

Crash site - treed area off of G-Street (gravel road)

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

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Site Reconnaissance Log

Installation: APG **State:** MD

Date: 5/22/2018
Potential AOPI Name: M.E training area - horse barn (Noble Road Fire Training Area)
Latitude/Longitude:
Field Personnel:
Site Contact/Title:
Weather:

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: old boiler plant concrete wall & bulding
Product Released & Volume: AFFF
Other Notes:

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

well in use 1990, stopped use around 2000

When:

Migration Potential: slope down toward Canal Creek
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

Grass

pallets
furniture
fuel

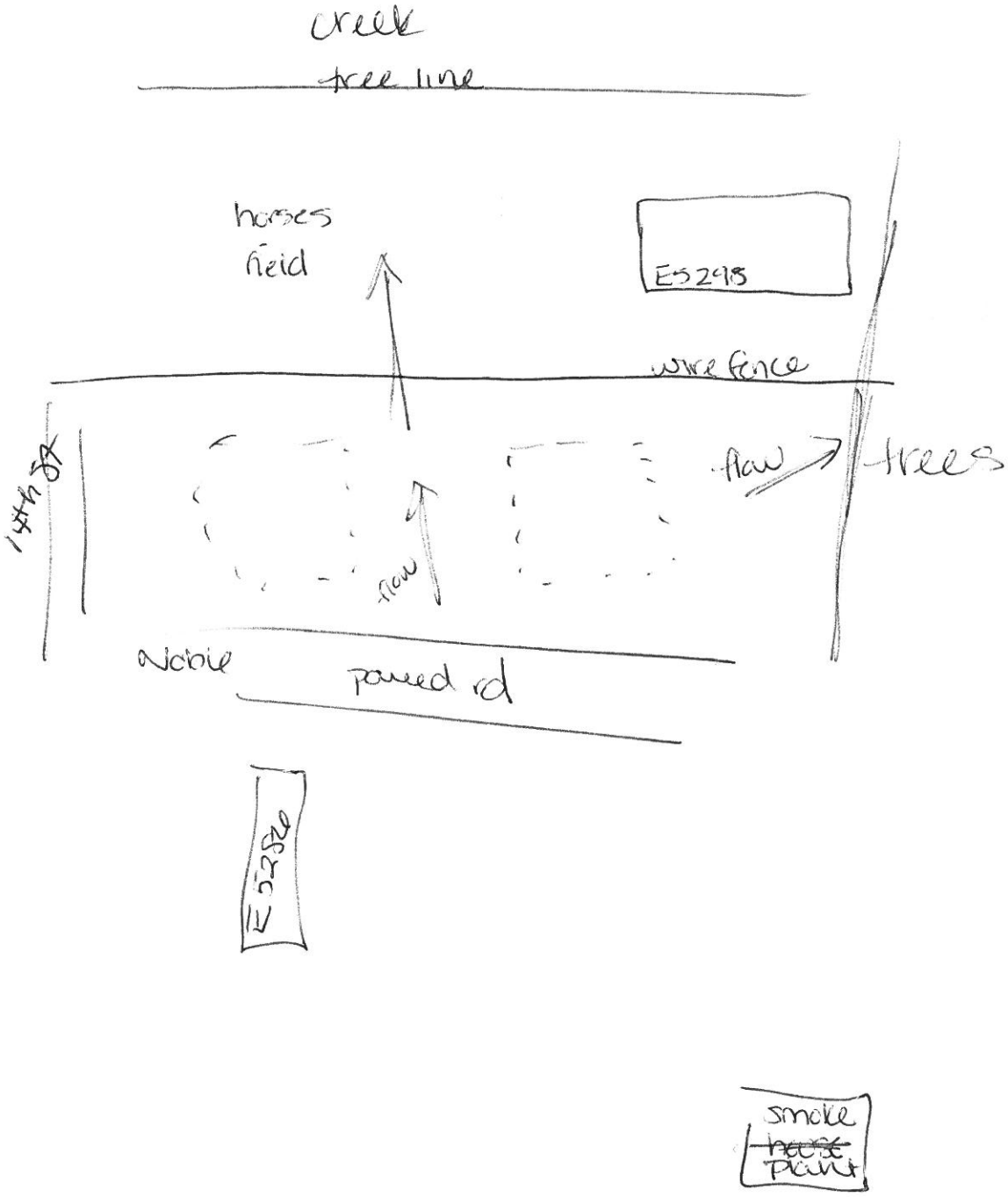
practice area
couple times/month in good weather

horses here when training occured

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

paved road behind
E5298 in horse paddock
horse barn

creek in tree line
Canal Creek East Branch



smoke
~~house~~
Plant

On- or Off-installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

Canal Creek - tree line

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

Toward creek

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

Miscellaneous Notes

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

ticks apparently had here, long grass

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Site Reconnaissance Log

Installation: APG **State:** MD

Date: 5/22/2018
Potential AOPI Name: 4040 - small hangar
Latitude/Longitude:
Field Personnel:
Site Contact/Title:
Weather: 70s, drizzling, May King

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: foam tank in 4040
Product Released & Volume: 400 gal tank, 99%
Other Notes: Thinks water pipe burst here

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:

Migration Potential: Floor drain back corner of room
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

Concrete floor, floor drain

floor drains in hangar along doors → sewer → OWS

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

Floor drain

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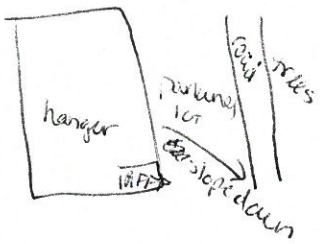
On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

No known dw here

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

Gunpowder River
East Branch canal Creek in woodline

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):



Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

Miscellaneous Notes

Annual testing no longer occurs

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

Active helipads

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Site Reconnaissance Log

Installation: APG Wade Field **State:** MD

Date: 5/22/18
Potential AOPI Name: Wade 4040 8
Latitude/Longitude:
Field Personnel: see Schultz interview Notes by A. Wadhawan
Site Contact/Title: Mgr King
Weather: cloudy, calm, little drizzle

Mgr King at Installation since 2014

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency:
Product Released & Volume:
Other Notes:

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:

Migration Potential:
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

4040 supression system in room on N side of hangar
400 gal tank "leaked" emptied to floor

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

creek in woodline to W of 4048 hangar overland flow to creek
East Branch Canal Creek

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

4040 flr drain along E full wall door, W wall small overhead door
4081 drain/door configuration similar, but has center flr drain in original portion
2012 additional french drains just outside E doors & closed system

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

Miscellaneous Notes

Action Item
4040 when did annual testing stop
drain plans for all bldgs

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

2012 old hangar system combined w/ new hangar system
all AFFF

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Site Reconnaissance Log

Installation: APG **State:** MD

Date: 5/22/2018
Potential AOPI Name: 4051 (Building 4081)
Latitude/Longitude:
Field Personnel: May King
Site Contact/Title: May King
Weather: Raining 70°F

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: No knowledge of testing, discharge here
Product Released & Volume: 900 gal
Other Notes:

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:

Migration Potential: Floor drains throughout
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

Concrete in hangar

In room w/ AFFF tank (new side), floor drains throughout
ChemGuard 3% AFFF. old hangar had separate mechanical room & AFFF tank

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

Sewer drains throughout & at door

On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

Looking at doors, flow would be to right

Lt Fecher tried to find outfalls to creek last summer couldn't. No sheen seen after oil spill.

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

Miscellaneous Notes

2013/2014 when Kung's knowledge picks up

Old hangar → new hangar (same AFFF system)
↳ 2012 – closed sewer drain system - needs to be pumped out drain outside hangar door, no drains elsewhere

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

Active flights, stay inside yellow line

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Site Reconnaissance Log

Installation: Aberdeen Proving Ground **State:** M.D

Date: 5/22/18
Potential AOPI Name: AA-5 (Cleveland Foster)
Latitude/Longitude:
Field Personnel: Matt Blower, Suzanne Eckel, Amar Wadhawan
Site Contact/Title: Cleveland Foster
Weather: Cloudy, calm

Sources

Recognized Primay Source (circle):
Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: 10-20x in last year and half
Product Released & Volume: Replaced one barrel (55 gal) in last year and half.
Other Notes:

Recognized Secondary Source(s) (circle):
Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:

Migration Potential:

Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

- Wooded area

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

- Portable fire fighting dispenser
- Enviropads
- Pipe & valve system. Valve to storage tank & runoff.

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

- Potable well 3/4 mile North of location
- Non-drinking, used for toilet + handwashing.

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

- Romney creek approx 500' from test pad location. (South)
- Topography running toward creek.

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

- Control drain off valve. Possibility of AFFF discharge from secondary flush

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

- Foam mixed w/ water
- Have 4 portable cannons onsite
- Pad has been here since before 2004.
  Pad
- ~~1986~~ NB
- Range started in 60's
- AFFF suppression used during tank testing around 1983.
- No AFFF @ 500m.

Miscellaneous Notes

- Based on fire based firefighting.
- Dumped on in ground mine box (15'x15'). Item placed in box, collect soil, dump soil.
- Have put foam on box
- Control whether drain off goes through valve or into OWS. (Minute chance of contamination)

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

- Enviropads developed here in 1986
  + Testing before?
  + When was suppression system installed?

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Site Reconnaissance Log

Installation: APG **State:** MD

Date: 5/22/18
Potential AOPI Name: AA-5 1000 m range / AFFF
Latitude/Longitude:
Field Personnel: Eckel Glover Washburn
Site Contact/Title: Cleveland Foster Glenn Smith
Weather: cloudy calm high 70's

Sources APG 2001 Glenn AA5 2007 AA5 1986

Recognized Primay Source (circle):
Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

500 m range
No foam

When/Frequency:
Product Released & Volume:
Other Notes:

Recognized Secondary Source(s) (circle):
Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:
Migration Potential:
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

wooded area

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

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Un- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

OWS collection tank ~10K gal each
↑
2 Tanks

2 valves control OWS vs drain

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

AA5 2 pads 1 mine box

Glen started 1980 no range existed

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

pad drain can go to OWS or drain off to ground
PI has same drain

remove pad floor plates ~ qtrly to clean out troughs

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

Romney creek to S

water canon, couldn't generally reach a field fire
call firedept for field fire. FD use Bambi bucket

Miscellaneous Notes

Mine box 15'x15'x6' used AFFF ~ 10-20x in past 1.5 yrs
~ 1 barrel over past 1.5 yrs

some type of portable water cannon as PI
can use cannon without AFFF AA5 has 4 cannons

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

could have been minimal drum leakage during transport

Action Item

how drums disposed
waste logs for soil disposal

AFFF for fuel fires only

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Site Reconnaissance Log

Installation: APG **State:** MD

Date: 05/23/18
Potential AOPI Name: Soil Storage/Hold
Latitude/Longitude:
Field Personnel:
Site Contact/Title:
Weather:

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: ~~Emptied~~ N.O Emptied 1 or 2 times/Year
Product Released & Volume: Uncertain
Other Notes:

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:

Migration Potential:
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

- Gravel area, wooded surroundings

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

- No visible sewer system inlets. Area undeveloped. Large conex storage "bin" used for soil storage. Front open to elements.

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

- Check EDR

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

- Pool of water in container, no real escape route.

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

- None. Stagnant puddle/water tight ceiling

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

- Open to elements, no door
- Emptied around twice/year
-

Miscellaneous Notes

- Dumpage of soil (contaminated) in massive storage
- ~~Asphalt~~ M.B Steel underside
- Used since around 2008 or so

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

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Site Reconnaissance Log

Installation: APG ***State:*** MD

Date: 5/23/2018
Potential AOPI Name: Aberdeen FTA
Latitude/Longitude:
Field Personnel: Katie, Amar
Site Contact/Title: Jeff Acroth
Weather: 70°F, sunny

Sources

Recognized Primay Source (circle):

Fire, (Fire training), Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency:
Product Released & Volume: RI report will have details
Other Notes:

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:

Migration Potential:
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

wetland area, grasses

no major

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

none

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

yes, see reports

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

wetland, standing water

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

south, southeast generally

gw, southward

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

Miscellaneous Notes

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

1092
demo of aircraft

Allison -
clothing
impregnation
Canal Creek

ARCADIS Design & Consultancy for natural and built assets

Site Reconnaissance Log

Installation: APG **State:** MD

1052D - OWS Seperate

Date: 5/23/2018
Potential AOPI Name: Airbase 6
Latitude/Longitude: hopeful.reporters.complies
Field Personnel: Matt Blower + Suzanne Edel
Site Contact/Title: Jim Laviere
Weather: Sunny

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency: Infrequent
Product Released & Volume: AFFF, large quantities. 1000 + gallons
Other Notes:

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:
Migration Potential:
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

- Flat, area wedged between tall grassed berms.

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

- Built between 91-94. From 88' was the start (Bill Rektorite)
- Same since, nothing updated but vehicles had been removed.

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

- Retention Pond, non test waste discharge to retention pond.

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

- Retention pond
- AFFF use was heavy. Jim Laviere claims entire 100 x 100 yard mat covered w/ 5' of foam. Likely that foam blew away into surrounding area

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

- 95-96 Gravel removed and tarmac installed.
- Grates across running Parallel to Cement burn pad area.

Miscellaneous Notes

- Would anchor vehicle to ground
- Still smell oil
- Retention pond on other side of berm. Put in because of soil erosion control
- F.D would flush out test pad post use w/ water.
- OWS shut down (3) no longer functioning -would lay down pads

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

- Wanted to preserve vehicles, would douse w/ AFFF to preserve it.
- F.D would post up approx. 300' North of pad site. Haul if fire got out of hand
- Jets were fired NE between edge of pad to 100' north of it

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Site Reconnaissance Log

Installation: APG **State:** MD

Date: 5/23/18
Potential AOPI Name: Airbase 6 & Boneyard ARL
Latitude/Longitude:
Field Personnel: Blower Fickel
Site Contact/Title: James Levrere Bill Rektorik at Airbase since 1990
Weather: Sunny breezy

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other:

When/Frequency:
Product Released & Volume:
Other Notes:

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When:
Migration Potential:
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

drains from concrete pad discharge to tanks under canopy
few 100 yards to N
NE in woods wetlands & creek

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

built ~'91-'94 french drain around perimeter of concrete
as early as 1988 → current asphalt was gravel

no stationary supression syst

RSAF built ~ 8 yrs ago no foam used

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

retention pond ~ S of pad receives rain water when pad set to divert from OWS

pad usually flushed by FD before switching to retention pond

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

stop major testing ~15 yrs not emptied OWS tanks in years

5K tanks / tanks

Miscellaneous Notes

want to preserve vehicle so extinguish fast

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)

bone yard from road to Airbase & area behind OWS tanks much cleared out over last few years

aircraft moved from Just Air base to boneyard

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Site Reconnaissance Log

Installation: Aberdeen PG **State:** MD

Date: 5/23/18
Potential AOPI Name: Boneyard
Latitude/Longitude: shirtless.rectangle.lentil
Field Personnel: Matt Blower, Suzanne Eckel
Site Contact/Title:
Weather:

Sources

Recognized Primay Source (circle):

Fire, Fire training, Fire station, Nozzle testing, Crash site, Metal coating/plating, Hanger/AFFF suppression system, Auto maintenance, Photoprocessing, Fuel spill, Pesticide/insecticide use, Wash rack, Other: AFFF dripping

When/Frequency: Continuous
Product Released & Volume: AFFF
Other Notes:

Recognized Secondary Source(s) (circle):

Stormwater or Sewer System Components, Wastewater Treatment Plants, Landfills, Remediated Soil Application Sites, Surface Water Flow Pathway, Potential for Groundwater Infiltration, Other:

When: Continuous
Migration Potential: Vehicles stored could have dripped AFFF into ground
Other Notes:

Physical Setting of Potential AOPI

Topography and Floor/Ground Surface (note vegetation/pavement, soil composition/color/staining, how surface may influence sampling access, and evidence of erosion especially near point of possible release):

- Flat, slight rolling slats.

Infrastructure (note entry to sewer system via drop inlets/storm drains/sanitary sewer/WWTP, pavement, buildings, etc):

- Flat field, dozens of helicopters. Previously, ~~area to~~ 11.13 vehicles were stored all the way to distant tree line (approx 1000m East) (Photo taken)

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On- or Off-Installation Monitoring or Drinking Water Wells (number and proximity to potential AOPI, note access and condition of wells):

Surface Water Bodies (proximity to and relative drainage direction and receptor, note ponding or standing water nearby):

- None within vicinity of area.
- Deliniated ~~west~~ wetland to NE

Surface Drainage within or adjacent to (natural or manmade, flow direction, lining [stone, vegetation, other], blockages):

- None visible

Site Status (current or past IRP and decision [NFA, MNA, system, etc.], previous remedial actions or other PFAS investigations):

- No fire testing since ~~IP~~ 15 years ago.

Miscellaneous Notes

- Vehicles were stored here, including vehicles used for test ops.
- Vehicles wet w/ foam were likely stored soon after test use.
- Old vehicles scrapped and taken away.
- No AFFF on site
- Rotary aircraft facility built 16 yrs ago, no foam used

Health and Safety Considerations

* Please note any H&S Concerns here (access, overhead/buried utilities, steep terrain, biological hazards, etc.)