

Joint Base Lewis McChord (JBLM) PFAS



SHARP Report — Part 1 of 2

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| • SHARP first SHARP | | v2024.04.29 | Ecology Info | |
|-----------------------|------------------------|-------------|--------------|-----------|
| • SHARP rating | Critical | | ERTS | SHARP it |
| • SHARP date | 05/06/2025 | | CSID | 17189 |
| • EJFlagged? | SHARP it | | FSID | 100003394 |
| • LD confidence level | medium | | VCP | SHARP it |
| • Cleanup milestone | remedial investigation | | UST ID | SHARP it |
| • SHARPster | John M Fot | | LUST ID | SHARP it |

This section is blank if this is the first SHARP

| SHARP Media | Scores | Confidence | Additional Factors |
|---------------|--------|------------|----------------------------|
| Indoor air | C1 | high | multiple chemical types ✓ |
| Groundwater | A1 | high | risk to off-site people ✓ |
| Surface water | A1 | medium | climate change impacts ✓ |
| Sediment | B1 | medium | plant/animal tissue data ⊘ |
| Soil | A1 | high | |

| Location and land use info | |
|--|--------|
| 62 CES CEV, JBLM, Pierce County, 98438 | |
| Primary parcel | 072901 |
| Land use | other |
| Responsible unit | HQ |

| Sources reviewed |
|---|
| Draft JBLM PFAS Installation Specific Work Plan RI-FS 2024 |
| Final Joint Base Lewis-McChord Army Cleanup Program Installation Action Plan 2024 |
| Final Preliminary Assessment/Site Inspection Report 2020 |
| Fort Lewis Agreed Order Ammendment 2012 |
| Fort Lewis Agreed Order 2001 |
| McChord Consent Decree 1992 |
| Fort Lewis Federal Facilities Agreement 1990 |
| McChord Federal Facilities Agreement 1989 |



| Primary census tract | Associated census tracts |
|----------------------|---|
| 72901 | 71806, 71901, 71902, 72000, 72106, 71807, 71803, 72106, 71808, 62802, 62900, 63000, 63501, 63502, 71808, 71703, 71704, 71503, 71707, 71705, 71403, 71408, 71409, 71410, 71411, 73114, 73117, 73005, 73001, 12412, 12411, 12320, |

| Local demographics comments |
|-----------------------------|
| EJScreen data 12/12/24 |

| Source/source area description |
|---|
| <p>Joint Base Lewis McChord (JBLM) consists of multiple parcels covering 90,283 acres in Pierce County. Numerous PFAS source areas have been identified on the site, primarily at firefighting training areas, aircraft hangars, fire stations, airfield runways, and landfills. In addition to PFAS, JBLM has numerous known and suspected source areas for chlorinated solvents, petroleum fuels, oils, and lubricants, PCBs, and metals.</p> |

| Soil comments |
|---|
| Full extent of soil contamination not delineated. Major suspected sources have been identified. |

| Groundwater comments |
|---|
| Full extent of groundwater contamination not delineated. While the USGS has produced a regional scale particle tracking model that is guiding the remedial investigation, there insufficient data to propose accurate site scale hydrogeological model. |



Surface water comments

While there have been known releases with directly observable impacts to surface water, the interaction of groundwater and surface water has not been studied at the site in any detail. Groundwater-surface water interaction studies are warranted.

Sediment comments

no comments

Indoor air comments

Indoor Air Quality studies have been performed for buildings in areas with contaminated soil/groundwater. In buildings where airborne contamination has intruded, engineering controls have been put in place to mitigate the contamination to acceptable safe levels.

Additional factors comments

no comments



Site history

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JBLM began use as a military installation in 1916 as Camp Lewis. McChord Field began use as a municipal airport in 1927 and was purchased by the federal government in 1938. The two installations merged under BRAC in 2010. Beginning in 1983, the US EPA investigated groundwater contamination at the American Lake Garden Tract finding that contamination from McChord Field migrated off site at concentrations greater than the criteria for safe drinking water and had contaminated private wells. This would lead to a Federal Facilities Agreements (FFAs) in 1989 and 1990, Consent Decree (CD) in 1992 ordering the cleanup of contamination at JBLM under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and Agreed Orders (AOs) in 2001 and 2012 to clean up additional contamination under the Model Toxics Control Act (MTCA). Substantial work has been done to remove, destroy, and remediate environmental contamination at JBLM, and significant progress has been made to restoring groundwater to drinkingwater standards. Despite the effort, contamination does remain above driking water criteria and additional substances have been added to the drinking water criteria list.



Overflow - Site contamination and cleanup history

No overflow



Assessment scores by environmental medium

