

MarkAir Hangar Site Characterization Report

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Prepared for:
Alaska Department of Transportation & Public Facilities
Fairbanks International Airport
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ACRONYMS AND ABBREVIATIONS

μg/L microgram(s) per liter

μg/m³ microgram(s) per cubic meter

°F degree(s) Fahrenheit

AAC Alaska Administrative Code

ADEC Alaska Department of Environmental Conservation

ADF&G Alaska Department of Fish & Game

bgs below ground surface

BTEX benzene, toluene, ethylbenzene, and xylenes

COC contaminant of concern

COPC contaminant of potential concern

CSM conceptual site model

DOT&PF Alaska Department of Transportation & Public Facilities

DRO diesel-range organics
EDB 1,2-dibromoethane

EPA U.S. Environmental Protection Agency

ESA environmental site assessment
FAI Fairbanks International Airport
GCL groundwater cleanup level
GRO gasoline-range organics

HI hazard index

IDW investigation-derived wasteJacobs Engineering Inc.LCS laboratory control sample

LOD limit of detection
LOQ limit of quantitation
MAH MarkAir Hangar
MB method blank

mg/kg milligram(s) per kilogram
mg/L milligram(s) per liter
NAPL non-aqueous phase liquid

ND nondetect

PAH polycyclic aromatic hydrocarbon

PCE tetrachloroethylene

PID photoionization detector

ppm part(s) per million

RPD	relative percent difference
RRO	residual-range organics
SC	site characterization
SCL	soil cleanup level

SOP standard operating procedure

TCE trichloroethylene
TCP trichloropropane
TMB trimethylbenzene

UST underground storage tank
VOC volatile organic compound

1.0 INTRODUCTION

This Site Characterization (SC) Report describes the recent effort to evaluate contamination at the MarkAir Hangar (MAH) facility (Alaska Department of Environmental Conservation [ADEC] File No. 100.26.043, Hazard ID 24293) located at the Fairbanks International Airport (FAI) (Figure A-1 in Appendix A). At the request of Alaska Department of Transportation & Public Facilities (DOT&PF), Jacobs Engineering Inc. (Jacobs) conducted the SC from 18 August through 31 August 2022. This SC is intended to further characterize and delineate soil and groundwater contamination associated with former leaking underground storage tanks (USTs) as well as to identify potential new sources of contamination.

1.1 PROJECT GOALS AND OBJECTIVES

The goals of the MAH 2022 SC were the following:

- Evaluate known and potential sources of contamination, particularly at the former locations of USTs 9, 12, 13, and 15
- Delineate previously detected groundwater contamination
- Use analytical results of soil borings and groundwater wells placed closest to the MAH building to inform the potential for vapor intrusion
- Determine whether any potential remedial actions are necessary to protect human health and the environment

The SC included investigation of soil and groundwater contamination through existing monitoring well, installation, development, sampling of new monitoring wells and temporary well points, and sampling of soil from the boreholes advanced at the new monitoring well locations. Six soil borings completed as monitoring wells (SB/MW-3b, SB/MW-6b, SB/MW-7b, SB/MW-8b, SB/MW-12, and SB/MW-13), one existing monitoring well (MW-4), and four temporary well points (TW-01, TW-02, TW-03, TW-04) were sampled to accomplish the project goals and objectives. The location of these wells is shown on the Sample Results and Site Summary Map (Figure A-3).

1.2 REPORT ORGANIZATION

This SC Report was written in accordance with the *Site Characterization Work Plan and Reporting Guidance for Investigation of Contaminated Sites* (ADEC 2017a) and is organized as follows:

- **Section 1.0 Introduction** introduces the project, describes the SC goals, provides a current understanding of the physical setting of the site, and summarizes the site history.
- Section 2.0 Site Characterization describes the SC activities conducted in 2022, including soil boring placement and advancement, soil boring sampling and field screening, monitoring well placement, installation, development and sampling, temporary well point installation and sampling, analytical methods for soil and groundwater samples, utility clearance, site survey, and investigation-derived waste (IDW) management.
- **Section 3.0 Results** presents analytical results of soil samples, groundwater samples, the preliminary vapor intrusion evaluation, and the quality assurance assessment.
- **Section 4.0 Risk Evaluation** provides the cumulative risk evaluation and discusses contaminants of potential concern (COPCs) and contaminants of concern (COCs).
- Section 5.0 Conceptual Site Model (CSM) describes the human health CSM and ecological scoping forms prepared for the site.
- Section 6.0 Conclusions and Recommendations provides a summary of the results and recommendations for the site.
- Section 7.0 References presents citations for all sources referenced in the document.

In addition to the report body, the following appendices provide further information:

- Appendix A: Figures presents the report figures.
- Appendix B: Photograph Log presents photographs of site conditions and field activities.
- Appendix C: Data Quality Assessment provides the assessment of data quality received from the analytical laboratory, including qualification of estimated data and a review of quality control samples against regulatory, laboratory, and project guidelines noting any discrepancies or variances. This appendix includes a sample summary table, complete analytical results tables, and ADEC Laboratory Data Review Checklists.
- **Appendix D: CSM and Ecoscoping Forms** presents the ADEC human health scoping and graphic forms and the ADEC ecoscoping form used to determine possible exposure routes at the site.
- **Appendix E: Field Documentation** presents the field logbooks, soil boring logs, well completion forms, well development logs, and groundwater sampling forms.
- **Appendix F: Survey Data** summarizes survey data from site survey activities, including positional accuracy.

- **Appendix G: Cumulative Risk Calculation** presents the cumulative risk calculations with the hazard index (HI).
- **Appendix H: Investigation Derived Waste** presents the waste disposal form and analytical results from the IDW samples.

1.3 SITE DESCRIPTION AND BACKGROUND

The following subsections describe the location of the MAH site, the physical and environmental setting, previous investigations, and COPCs.

1.3.1 Site Location

MAH, currently known as the Everts Air Alaska facility, is located at 5525 Airport Industrial Road in Fairbanks, Alaska, or latitude 64.8106, longitude -147.8798 (ADEC 2022b). The lot is located west of the FAI runways, east of Airport Industrial Road, within the Fairbanks Meridian, Township 1 South, Range 2 West, Section 13, Block 1, Lot 6 (Figure A-1 in Appendix A). The property is owned by the DOT&PF and operated/managed by FAI.

1.3.2 Climate

Climate in the Fairbanks area is influenced by the bounding Brooks Range to the north and the Alaska Range to the south. The region experiences a continental climate with significant temperature variations. Winters are generally cold with subzero temperatures followed by warm summers with low humidity and precipitation. Based on mean normal data from the last 30 years (1991 to 2020), average monthly temperatures in Fairbanks range from a minimum of -8.3 degrees Fahrenheit (°F) in January to a maximum of 62.9°F in July. Mean monthly temperatures are typically below freezing from October to March. Total rainfall averaged 11.67 inches over the last 30-year period, with the maximum cumulative rainfall typically occurring in July. Total snowfall averaged 64.6 inches with the maximum cumulative snowfall typically occurring in November (Alaska Climate Data Center 2022).

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1.3.3 Physical Setting, Geology, and Groundwater

The MAH site resides within the Chena and Tanana River floodplains, near the confluence of the Chena and Tanana Rivers, approximately 0.3-mile east-southeast of the Chena River and approximately 1.25 miles north of the Tanana River at its closest point to each river (Péwé 1982). The MAH resides on an industrial lot measuring approximately 19 acres and comprised primarily of paved, impervious surface. A small portion of the site is pervious (approximately 4 acres), comprised of grass, dirt, and gravel cover. Geology at the site consists of unconsolidated alluvium. A layer of mica-rich sandy silt, 1-foot to 15-foot-thick, is present in the Chena and Tanana River floodplains and could be encountered at the MAH site (Péwé 1982). The sandy silt layer is typically underlain by gravelly sands and sandy gravel layers of varying thicknesses. As Fairbanks lies within the zone of discontinuous permafrost, permafrost could also be encountered at the MAH site (Péwé 1982).

Based on historical investigations and groundwater flow data presented in the Phase II Environmental Site Assessment (ESA), depth to groundwater at the MAH site is typically encountered between approximately 10.5 and 13 feet below ground surface (bgs), with flow direction varying from northwest to southwest, and occasional southeasterly flow direction during high Chena River stage or north during seasonal breakup (DOT&PF 1993; DOT&PF 2005a). This is consistent with the high variability in groundwater flow directions calculated at other nearby DOT&PF FAI sites, including the MarkAir Warehouse, Hydrant Fuel System, and Drainage Pond sites (DOT&PF 2022a, 2022b, 2022c). Groundwater gradient can also vary between 0.0009 and 0.004 foot/foot within the floodplain area (DOT&PF 1993). The low groundwater gradient supports the idea that small changes in the groundwater system (e.g., increased infiltration, precipitation, changing river levels) may cause dramatic shifts in flow direction.

1.3.4 Ecology and Land Use

FAI occupies over 3,500 acres in interior Alaska and is located 4 miles southwest of downtown Fairbanks. The lands surrounding FAI are mainly owned by the State of Alaska and the military with some land available for commercial and residential development. The Fairbanks NorthStar

Burrough surrounding FAI has an approximate population of 95,655 residents (U.S. Census Bureau 2020).

Everts Air Cargo is currently using the MAH site, providing both cargo and passenger air service throughout Alaska. The site is highly developed and mostly comprised of asphalt and gravel surfaces. MAH is not located within an ecologically sensitive area. No known endangered or threatened species are present or known to exist at the site or surrounding area.

1.3.5 Flora and Fauna

FAI is located in interior Alaska in an area where plant life is subjected to short summers and long winters with extreme cold temperatures. Vegetation varies highly within Fairbanks, low lying areas typically have mosses, sage grasses, alders, willows, and black spruce while the high elevations have less moss and grass with a transition in tress to birch, white spruce, aspen, and poplar.

A wide variety of animal life exists in the Fairbanks area. Alaska Department of Fish & Game (ADF&G) notes that more than 150 species of birds and 30 mammal species can be seen in the Fairbanks area (ADF&G 2023). The most common sightings include ravens, moose, red squirrels, and snowshoe hares.

Although flora and fauna are abundant in interior Alaska, the developed nature of the MAH site is not conducive to wildlife. Areas containing vegetation include a small portion along the east side of the site comprised of grass and maintained by the DOT&PF (Figure A-2). Due to a lack of habitat and food sources, continued presence of fauna is not expected. However, the occasional bird or mammal could be a temporary presence as it passes through the site.

1.3.6 Site History and Previous Investigations

Ten historic USTs (USTs 5, 6, 7, 9, 10, 12, 13, 14, 15, and M-01) were installed at the MAH site between 1974 and 1980 (ADEC 2022b). Contents of the USTs included aviation gasoline (USTs 5 and M-01), diesel (USTs 6, 9, and 14), unleaded gasoline (UST 7), waste oil (UST 10), gasoline (UST 12), and diesel heating fuel (USTs 13 and 15). In 1991, cleanup actions

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were pursued in response to a spill at UST 13. Excavation of contaminated soil led to the discovery of diesel-contaminated soil at a depth ranging from 6.5 feet bgs to 12 feet bgs. Following the cleanup actions, MarkAir hired a contractor to perform tank tightness test on several of the USTs. USTs 9 and 10 were discovered to be leaking when they failed tank tightness tests (DOT&PF 1993).

In 1992, closure and removal of all 10 USTs at the MAH site occurred between August and October. Phase I and II ESAs were conducted simultaneous to tank closures and removals. During the closure and removal of the tanks, 4 of the 10 USTs were confirmed to be leaking USTs, as evidenced by gashes in USTs 9 and M-01 and stained soil observed in excavations at USTs 10 and 13. Further evidence of potential spills due to overfilling was also observed at UST 5 (DOT&PF 1993). The USTs were removed over a total of nine excavations. USTs 6 and 7 were removed together in one single excavation, whereas all other USTs were excavated in separate excavations. Analytical soil samples were taken from the excavations and results determined contaminated soil was left in situ. Specifically, diesel-contaminated soil was left in place at the excavation sites for USTs 9 and 15, and diesel, gasoline, benzene, and total benzene, toluene, ethylbenzene, and xylenes (BTEX)-contaminated soil was left in place at the excavation site for USTs 6 and 7 (DOT&PF 1993).

In April 1993, the ADEC Northern Region office drafted a letter to the MarkAir summarizing findings from the Phase I and Phase II ESAs requesting that MarkAir conduct a release investigation to identify potential groundwater contamination, assess the lateral and vertical extent of soil and groundwater contamination, and develop a corrective action plan for management of in situ and ex situ soil contamination (ADEC 1993). The letter specifically suggested that a groundwater monitoring network be installed to assess upgradient pollutant sources, determine the extent of contamination at the UST sources, and determine if the contamination is migrating downgradient.

In June 1993, nine monitoring wells were installed on the MarkAir properties (MAH and MarkAir Warehouse) to assess contamination in groundwater (ADEC 2022b). Monitoring wells MW-1 through MW-5 were installed on the MAH site. In 2002, MW-5 was decommissioned and replaced with MW-6 (DOT&PF 2005a). In a 2003 groundwater sampling event, volatile

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organic compounds (VOCs) were detected in groundwater at MW-3, with 1,1-dibromoethene (EDB) detected slightly above the applicable 2003 ADEC groundwater cleanup level (GCL). Other COCs included trichloroethylene (TCE) at MW-2, residual-range organics (RRO) at MW-5 (now MW-6), and lead across the site (DOT&PF 2005a).

Between September and November 2004, an SC was conducted at the MAH, focusing on the areas of former USTs 6, 7, 9, 10, 12, 13, and 15 and contamination left in situ (DOT&PF 2005a). Temporary well points were installed at former USTs 6 and 7 (WP-10), UST 10 (WP-11N [15]), UST 12 (WP-12), and UST 15 (WP-13). Soil boreholes completed as monitoring wells were also installed at locations of former UST 9 (MW-7) and UST 13 (MW-8). Groundwater was also sampled at MW-1, MW-3, and MW-6. Results of the SC, when screened against the latest ADEC soil cleanup levels (SCLs) and GCLs (ADEC 2021), indicated the following:

- At former USTs 6 and 7, naphthalene was detected in groundwater at concentrations greater than the ADEC GCL (0.0017 milligrams per liter [mg/L]).
- At former UST 10, naphthalene concentrations exceeded the ADEC GCL at the deeper interval in nested well point WP-11N, from 25 to 35 feet bgs. However, the shallowscreened well did not contact the water table and a shallow sample could not be collected.
- At the former UST 9 location, benzene, ethylbenzene, total xylenes, 1-methylnaphthalene, and naphthalene were detected in soil at concentrations greater than the ADEC migration to GCLs at the groundwater interface (approximately 10 feet bgs) and diesel-range organics (DRO), benzene, ethylbenzene, 1- and 2-methylnaphthalene, naphthalene, and total xylenes were detected in groundwater at concentrations greater than ADEC GCLs.
- At former UST 12, benzene, ethylbenzene, naphthalene, and total xylenes were detected in groundwater at concentrations greater than ADEC GCLs.
- At former UST 13, gasoline-range organics (GRO), DRO, benzene, ethylbenzene, 1- and 2-methylnaphthalene, naphthalene, and total xylenes were detected in groundwater above the ADEC GCLs.
- At former UST 15, DRO, ethylbenzene, and naphthalene were detected in groundwater above the ADEC GCLs.
- At MW-6, lead was detected at a concentration exceeding the ADEC GCL.

Based on results of the 2004 SC, the following was recommended:

• A request for No Further Action at the former UST 6 and 7 locations

- Further characterization and delineation of contamination in groundwater lateral to MW-7 (former UST 9) and no further investigation of soil at former UST 9 because contaminated soil was already excavated from the area in 1992
- Sampling of the shallow groundwater interval at WP-11N (UST 15; former UST 10) once the groundwater table rises
- Continued monitoring of contamination in groundwater at former USTs 12, 13, and 15 (DOT&PF 2005a)

A groundwater monitoring event was performed in September 2005, including sampling of wells WP-11N, WP-12, WP-13, MW-7, and MW-8. Monitoring well MW-7 was found to contain free product (diesel) and was not sampled. The free product was concluded to be a result of remobilization of the release from UST 9 and not an additional release. All other groundwater samples were collected and submitted to the laboratory for analysis of GRO, DRO, BTEX, and VOCs. Results indicated benzene, ethylbenzene, naphthalene, and total xylenes at concentrations greater than the latest ADEC GCLs (ADEC 2021) at WP-12 and MW-8 (DOT&PF 2005b).

In October 2006, a groundwater monitoring effort ensued with sampling of monitoring wells MW-3, MW-4, MW-6, and MW-8 (DOT&PF 2006). Sampling was also attempted at well points WP-12 and WP-13 and monitoring well MW-7. However, neither well point produced enough recharge to collect a sample. MW-7 was not sampled due to the presence of product measuring approximately 1 foot thick. However, groundwater samples collected at MW-3, MW-4, MW-6, and MW-8 were submitted to the laboratory for analysis of GRO, DRO, and BTEX. Analytical results indicated GRO, DRO, and benzene at concentrations greater than the latest ADEC GCLs (ADEC 2021) at MW-8.

In March 2019, ADEC issued a letter to DOT&PF requesting additional investigation at MAH for USTs 9, 12, 13, and 15 (ADEC 2019a). The letter requested further delineation of groundwater contamination; inclusion of lead as a site COC; removal of free product to the maximum extent possible; repair, redevelopment, or replacement of well points WP-12 and WP-13 based on the reason for lack of recharge; and a survey of all wells. DOT&PF issued a response to ADEC's request for a work plan in May 2019, indicating a work plan would be

forthcoming (DOT&PF 2019). ADEC acknowledged the response in a letter dated June 2019 (ADEC 2019b). The location of these USTs is shown on the Site Location Map (Figure A-2).

On 7 July 2022, Jacobs conducted a preliminary site visit to observe existing site conditions and inventory and evaluate the condition of existing monitoring wells. Multiple wells were either missing or had been destroyed and were no longer viable. Wells MW-3 and MW-4 were not found and are believed to have been destroyed by heavy equipment, based on their locations within the parking lots. Wells MW-7 and MW-8 were not located and appeared to have been covered by the building footprint and destroyed during building renovations. Well MW-6 was located in the parking lot with no protective casing or cover and was filled in with gravel and thus unviable. The locations of wells MW-6, MW-7, and MW-8 is shown on Figure A-3. The ADEC-approved 2022 MAH SC Work Plan (DOT&PF 2022) reflected these findings and included decommissioning and replacement of these previously existing wells, if found, as part of the 2022 SC field effort.

COCs previously identified for the site based on results of historical investigations and monitoring events include the following:

- Fuels: GRO, DRO, RRO
- VOCs: benzene, ethylbenzene, xylenes, EDB, and TCE
- Polycyclic aromatic hydrocarbons (PAHs): naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene
- Lead

Although the COCs listed were not detected in both soil and groundwater during previous investigations, both soil and groundwater samples collected for the purposes of the SC were submitted for analysis of all COCs. In addition, although 1,2-dichloroethane is considered a potential fuel additive to aviation gasoline, it has not previously been detected at the site and is not considered a COC. Samples collected during this SC were therefore not submitted for analysis of 1,2-dichloroethane.

1.4 SOIL AND GROUNDWATER SCREENING LEVELS

Screening levels for soil and groundwater were obtained from the latest revision of Title 18 of the Alaska Administrative Code (AAC), Chapter 75 (ADEC 2021) as specified in the MAH SC Work Plan. Groundwater sample results were evaluated against the ADEC Table C human health GCLs. Soil boring sample analytical results were evaluated against the most stringent of ADEC Table B1 and B2 Method Two SCLs for either human health or migration to groundwater for the under 40-inch zone (ADEC 2021). Project screening levels proposed for soil and groundwater COCs at the MAH site, along with laboratory method limits of detection (LODs), are summarized in Table 1-1.

Table 1-1
Screening Levels for MAH Site COCs in Soil and Groundwater

Analyte	Method	ADEC GCL ¹ (µg/L)	ADEC SCL ² (mg/kg)
GRO	AK101	2,200	300
DRO	AK102	1,500	250
RRO	AK103	1,100	11000
Benzene	SW8260D	4.6	0.022
Ethylbenzene	SW8260D	15	0.13
EDB	SW8260D-SIM	0.075	0.00024
TCE	SW8260D	2.8	0.011
Total Xylenes	SW8260D	190	1.5
1-Methylnaphthalene	SW8270D-SIM	11	0.41
2-Methylnaphthalene	SW8270D-SIM	36	1.3
Naphthalene	SW8270D-SIM	1.7	0.038
Lead	SW8260B	15	400

Notes:

1.5 RISK EVALUATION

For the cumulative risk evaluation, COPCs were determined by screening analytical soil results against one-tenth the ADEC Table B2 Method Two human health screening levels for the under 40-inch zone, and by screening analytical groundwater results against one-tenth the ADEC Table C human health GCLs (ADEC 2021). Contaminants that exceeded one-tenth the applicable risk screening level were considered COPCs. The highest concentration of the COPC

¹⁸ AAC 75. Table C human health GCLs (ADEC 2021).

² 18 AAC 75. For GRO and DRO, cleanup levels obtained from Table B2, Method Two SCLs, migration to groundwater. For all others, cleanup levels obtained from Table B1, Method Two SCLs, migration to groundwater (ADEC 2021). For definitions, refer to the Acronyms and Abbreviations section.

remaining at the site was input into ADEC's online cumulative risk calculator to determine if there was a risk to human health from site contaminants. Cumulative risk at the site was considered unacceptable if carcinogenic risk was calculated at a level greater than 1×10^{-5} or if noncarcinogenic risk was calculated at an HI exceeding 1. If cumulative risk was considered unacceptable, then COCs were deduced from the list of COPCs based on whether the contaminant was considered a primary risk driver of overall cumulative risk.

1.5.1 Petroleum Range Contaminants

Petroleum range chemical results were not included as inputs to the calculation, as these are a mixture of chemicals including both carcinogenic and noncarcinogenic elements. The Total Petroleum Hydrocarbon Criteria Working Group identified a specific chemical within the petroleum fractions contributing carcinogenic and noncarcinogen risk (ADEC 2018). These indicator chemicals included volatile chemicals such as BTEX, PAHs, metals (e.g., lead) and site-specific chemicals such as EDB, 1,2-dichloroethane, and methyl tert-butyl ether.

1.5.2 Lead

Lead was not included in the risk calculations. Lead cleanup levels are site-specific and based on land use. Per ADEC guidance, the screening threshold for lead for commercial or industrial land use is 800 milligrams per kilogram (mg/kg); therefore, lead in soil was screened against this value to determine the appropriateness for inclusion as a COC. For groundwater, lead was screened against the cleanup level presented in Table C of 18 AAC 75 to determine if it should be considered a COC. Further discussion of COPCs and COCs can be found in Section 4.4.

A CSM for human health was developed based on results of the screening process. An ecological scoping form was also completed for the site based on the screening results. The CSM and ecological scoping form are discussed in Section 5.0.

1.6 IDW SOIL AND GROUNDWATER SCREENING LEVELS

To inform waste handling, transport, storage, treatment and disposal methods, results of individual constituent analysis in IDW soil and water were screened against Resource

 Conservation Recovery Act levels for toxicity characteristics (40 Code of Federal Regulations 261, Subpart C) using the Rule of 20 (Environmental Protection Agency [EPA] 2016).

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2.0 SITE CHARACTERIZATION

Fields activities for the MAH SC were conducted from 18 August through 31 August 2022. SC tasks included mobilization and site setup; utility clearance; drilling soil borings; field screening and collecting subsurface soil samples; installing, developing, and sampling wells; recording visual and olfactory observations; collecting survey data; managing IDW; and site restoration and demobilization.

Section 2.1 describes deviations to the MAH SC Work Plan, and Sections 2.2 through 2.7 describe 2022 site activities and results. Site photographs are provided in Appendix B. Field documentation, including soil boring logs, monitoring well installation forms, monitoring well development forms, groundwater sampling data sheets, and field logbooks used to record daily activities provide additional details in Appendix E.

2.1 WORK PLAN DEVIATIONS

Deviations from the MAH SC Work Plan included relocation of soil borings and monitoring wells to avoid utility conflicts. The following sampling locations were moved away from their original locations:

- MW-4b was removed from the drilling plan when MW-4 was located and deemed viable for sampling.
- MW-8b was relocated 15–20 feet north of the planned location to avoid underground electrical and water lines.
- MW-12 was relocated 5 feet north to avoid a sewer line.
- MW-13 was relocated 15 feet north-northwest of the proposed location to avoid a high traffic area.

2.2 SOIL BORINGS AND SAMPLING

Utility clearance at the MAH site occurred on 18 August 2022 and SC drilling activities were conducted from 24 August through 27 August 2022. Drilling activities and access to the site were coordinated with the FAI operations office and Everts Air Cargo staff. During the field effort, six soil borings were completed (SB-3b, SB-6b, SB-7b, SB-8b, SB-12, and SB-13), with all borings advanced to groundwater and completed as monitoring wells. Placement of each soil

boring and monitoring well is shown on Figure A-3. Placement rationale, soil boring and monitoring well pairing, and depth are described in Table 2-1.

Table 2-1
Sampling Point Placement and Rationale

Soil Boring ID	Corresponding Monitoring Well	Placement	Placement Rationale
SB-3b	MW-3b	Northeast or former MW-3, which was destroyed or covered over, west of main hangar and crossgradient/ upgradient depending upon flow direction from former USTs.	To confirm lack of contamination at northwest edge of site or at a downgradient location from potential sources.
SB-6b	MW-6b	Just west of former MW-6, which was destroyed or covered over, downgradient of UST 15 and 13.	To test for lack of contamination at northern edge of site or at a crossgradient/downgradient location from former UST 15.
SB-7b	MW-7b	Just east of former well MW-7, which was destroyed or covered over with building construction; east of former UST 9.	Move east outward from new building footprint, based on utility locates; to characterize contamination in soil and groundwater at former UST 9.
SB-8b	MW-8b	Just west of former well MW-8, which was destroyed or covered over with building construction; west of former UST 13.	Move slightly west outward from new building footprint, based on utility locates; to characterize contamination in soil and groundwater at former UST 13.
SB12	MW-12	At former well point WP-13 and UST 15.	To characterize contamination in soil and groundwater at former UST 15.
SB13	MW-13	At former well point WP-12 and UST 12.	To characterize contamination in soil and groundwater at former UST 12.

Note:

For definitions, refer to the Acronyms and Abbreviations section.

All soil borings were drilled by GeoTek Alaska using a GeoProbe Model 7822dt direct-push drill rig with 45/37, MacroCore, and hollow-stem auger tooling. All soil borings and well installations were performed in accordance with the SC Work Plan. Soil samples were obtained using continuous core decontaminated between uses. The soil sampling methodology followed ADEC *Field Sampling Guidance* (ADEC 2022a), standard operating procedure (SOP) DOT-FAI-SOP-3000, and the procedures explained in the approved SC Work Plan (ADOT&PF 2022). The soil boring logs provide additional drilling and sampling information (Appendix B).

Based on the soil borings and well construction diagrams, two cross sections were created showing the lithology, wells, and exceedances across the site (Figures A-3 and A-4). Analytical samples from soil borings were collected at the interval corresponding to the location of the

highest photoionization detector (PID) readings and at the groundwater interface. Table 2-2 shows the depth of samples collected as well as the PID results.

Table 2-2 Soil Sample Depths and Field Screening Results

Boring or Well ID	Total Depth (feet bgs)	Sampled Intervals (feet bgs)	PID Reading (ppm)	Sample ID
SB-3b	20	2 to 4	2.1	22MAH-SB3b-SO-2-4
36-30	20	9.5 to 10	1.0	22MAH-SB3b-SO-9.5-10
SB-6b	20	2 to 4	3.3	22MAH-SB6b-SO-2-4
20-00	20	9.5 to 10	2.7	22MAH-SB6b-SO-9.5-10
		6 to 8	6.9	22MAH-SB7b-SO-6-8
SB-7b	18.33	10 to 10.5	1.2	22MAH-SB7b-SO-10-10.5
		10 to 10.5	1.2	22MAH-SB7b-SO-10-10.5A
		6 to 8	4.6	22MAH-SB8b-SO-6-8
SB-8b	20	10 to 10.5	1.2	22MAH-SB8b-SO-10-10.5
		10 to 10.5	1.2	22MAH-SB8b-SO-10-10.5A
SB-12	20	2 to 4	2.1	22MAH-SB12-SO-2-4
3D-12	20	10.5 to 11	1.6	22MAH-SB12-SO-10.5-11
CD 12	20	8 to 10	11.1	22MAH-SB13-SO-8-10
SB-13	20	10 to 10.5	-	22MAH-SB13-SO-10-10.5

Notes:

For definitions, refer to the Acronyms and Abbreviations section.

During the field effort, 12 primary soil samples and 2 duplicate soil samples were submitted to SGS North America, Inc. in Anchorage, Alaska. Samples were analyzed for GRO by Alaska Method AK101, DRO by AK102, RRO by AK103, VOCs (mid- and low-level) by EPA Method 8260, EDB via EPA Method 8260-SIM, PAHs by Method 8270-SIM, and lead by EPA Method 6020.

2.3 MONITORING WELL INSTALLATION AND GROUNDWATER SAMPLING

At the MAH site, seven groundwater monitoring wells with prepacked screens and four temporary wells were installed using the drilling methods described in Section 2.2, and developed in accordance with the ADEC *Monitoring Well Guidance* (ADEC 2013a) and DOT-FAI-SOP-1200 *Well Installation and Development*. Depths to groundwater in each well are listed in Table 2-3.

^{- =} No PID result was collected for this depth.

Table 2-3
Depth to Groundwater

Monitoring Well	Sample ID	Depth to Groundwater ¹ (feet bgs)
MW-3b	22MAH-MW3b-GW	7.15
MW-4	22MAH-MW4-GW	11.0
MW-6b	22MAH-MW6b-GW	7.31
MW-7b	22MAH-MW7b-GW	10.6
MW-8b	22MAH-MW8b-GW	10.85
MW-12	22MAH-MW12-GW	11.8
MW-13	22MAH-MW13-GW	10.78
TW-01	22MAH-TW01-GW	13.04
TW-02	22MAH-TW02-GW	14.58
TW-03	22MAH-TW03-GW	10.45
TW-04	22MAH-TW04-GW	10.8

Notes:

For definitions, refer to the Acronyms and Abbreviations section.

The depth to groundwater was relatively consistent between wells. The groundwater gradient across the site is very shallow and trends west-northwest (Figure A-3). Groundwater samples were collected from each of the 11 wells; 11 primary samples along with 2 field duplicates were collected and analyzed for GRO by AK101, DRO by AK102, RRO by AK103, VOCs (midand low-level) by EPA Method 8260, EDB via EPA Method 8260-SIM, PAHs by Method 8270-SIM, and lead by EPA Method 6020A.

2.4 WELL DECOMMISSIONING

During the SC, two previously installed monitoring wells (MW-3 and MW-6) were located and deemed unviable due to their condition. These monitoring wells were decommissioned in accordance with JE-SOP-1220 *Well Decommissioning* provided in the MAH Work Plan. MW-3 was decommissioned on 26 August 2022 and MW-6 was decommissioned on 27 August 2022. The decommissioning logs can be found in Appendix E.

2.5 SURVEYING

Surveying of monitoring well locations and elevations was performed by Lounsbury & Associates, Inc. The report summarizing their work is provided in Appendix D.

Depth to groundwater were recorded prior to sampling.

2.6 WASTE MANAGEMENT

Nonhazardous disposable personal protective equipment and sampling materials were bagged and disposed of at Fairbanks North Star Borough landfill. Monitoring well purge water and decontamination water was combined and temporarily stored onsite at an FAI waste storage facility and placed in labeled 55-gallon drums until laboratory results were received. Similarly, soil cuttings from drilling were combined and placed in labeled 55-gallon drums.

Contents of each IDW water and soil drum were sampled and characterized. The analytical results of the waste sampling were used to characterize water for disposal purposes. Disposal of IDW purge and decontamination water is currently being coordinated with US Ecology. An ADEC Transport, Treatment and Disposal Approval Form for the contaminated media will be completed and submitted to ADEC for approval. The approval form will be included in Appendix H of this report.

Jacobs will manage the final transport and disposal of IDW water and IDW soil using an appropriate offsite treatment, storage, and disposal subcontractor (e.g., US Ecology).

Proper documentation will be generated for each waste stream prior to shipment to the final disposal facility and will include information required to comply with federal, state, and local regulations for labeling, transport, shipment, and disposal of wastes from the site. This will include bills of lading and hazardous or nonhazardous manifests, if applicable. FAI will sign manifests and certificates of disposal will be generated after deposit of waste streams at the final disposal facility. Waste manifests and certificates of disposal will be included in the groundwater monitoring report.

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3.0 RESULTS

Analytical results from the soil and groundwater investigation were screened against levels presented in Section 2.0. This section presents results of the screening analysis as well as the risk evaluation. Full analytical results tables are presented in the Data Quality Assessment (Appendix C).

3.1 SOIL INVESTIGATION RESULTS

No analytical soil sample results exceeded the ADEC SCLs.

3.2 GROUNDWATER INVESTIGATION RESULTS

Results of the groundwater investigation indicated concentrations of 1,2,4-trimethylbenzene (TMB), naphthalene, DRO, and RRO in exceedance of the ADEC GCLs at TW01. In addition, results for chloroform in groundwater samples from TW01, MW3b, MW8b, and MW13 exceeded the ADEC GCLs (Table 3-1).

Table 3-1
Groundwater Sample Result Exceedances

Location ID	Sample ID	Analyte	ADEC GCL ¹ (mg/L)	Result (mg/L)
		1,2,4-TMB	0.056	0.0951 JS+
		Chloroform	0.0022	0.0197 JS+
TW01	22MAH-TW01-GW	Naphthalene	0.0017	0.0507 JS+
		DRO	1.5	5.3
		RRO	1.1	2.11
MW3b	22MAH-MW3b-GW	Chloroform	0.0022	0.0174
NAVA/OI-	22MAH-MW8b-GW	Chloroform	0.0022	0.00457
MW8b	22MAH-MW8b-GWA	Chloroform	0.0022	0.00391
MW13	22MAH-MW13-GW	Chloroform	0.0022	0.00394

Notes:

JS+ = The result was an estimated value biased high (+) because at least one surrogate failed recovery criteria for the sample. For definitions, refer to the Acronyms and Abbreviations section.

Additionally, 1,2,3-trichloropropane (TCP) was nondetect (ND) at the LOD; however, the LOD exceeded the ADEC GCL. This is discussed in Section 3.4.

3.3 VAPOR INTRUSION EVALUATION

Results from groundwater samples collected at monitoring wells MW-7b and MW-8b were screened against the ADEC Groundwater Target Levels presented in Appendix F of the 2017 ADEC *Vapor Intrusion Guidance for Contaminated Sites* (ADEC 2017b). Only analytes with detected results from each well and for which a target threshold is presented in the ADEC Vapor Intrusion Guidance (ADEC 2017b) were evaluated in this screening process. Table 3-2 presents results of the screening of groundwater results against ADEC groundwater target threshold values for vapor intrusion. Based on the screening of 2022 groundwater results, no contaminants at either MW-7b or MW-8b were detected at levels exceeding the vapor intrusion guidance target levels for groundwater.

Table 3-2
Screening of Groundwater Results for Vapor Intrusion Potential

Well ID	Analyte	Residential Groundwater Target Level ¹ (µg/L)	Commercial Groundwater Target Level ¹ (µg/L)	Groundwater Result (µg/L)
MW-7b	Chloroform	8.1	36	0.53 J
	Toluene	19,000	81,000	0.447
	Benzene	16	69	0.22 J
	Chloroform	8.1	36	4.57
MW-8b	Chloromethane	260	1,100	0.43
	PCE	58	240	0.75 J
	Naphthalene	46	200	0.0451 J

Notes:

Non-aqueous phase liquid (NAPL) was identified at monitoring well MW-7, located at the northeast corner of the hangar, during the 2005 and 2006 groundwater monitoring efforts (DOT&PF 2005b, 2006). Construction after the 2006 monitoring event rendered well MW-7 inaccessible due to overlying structures, and could not be sampled during the 2022 SC. Historical sampling results from MW-7 during the 2004 SC, prior to the discovery of product in the well, indicated benzene in soil at 10 feet bgs at a concentration of 0.0316 mg/kg, and benzene in groundwater at a concentration of 130 micrograms per liter (µg/L) (DOT&PF

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¹ Groundwater target levels are those listed in Appendix F of the ADEC Vapor Intrusion Guidance (ADEC 2017b).

J = The result is an estimated value because it was greater than the detection limit but less than the LOQ.

For definitions, refer to the Acronyms and Abbreviations section.

2005a), which exceeds both the residential and commercial ADEC groundwater target levels for vapor intrusion (16 μ g/L and 69 μ g/L, respectively).

3.4 QUALITY ASSURANCE ASSESSMENT

Jacobs performed this data quality review and completed an ADEC Laboratory Data Review Checklist for records associated with the analytical data. The Jacobs Project Chemist performed a completeness check to verify data packages included all requested information. All analytical data were reviewed, including the chain-of-custody and sample receipt records, laboratory case narratives, and laboratory data. Analytical data were reviewed for methodology, sample holding times, laboratory blanks, limits of quantitation (LOQ), LODs, detection limits, laboratory control sample (LCS) recoveries, and precision. Other quality control parameters (initial calibration, continuing calibration, tuning, internal standards, interference check solutions, post-digestion spikes, and serial dilutions) were reviewed by means of the laboratory case narrative. The following qualifiers were applied during the review:

- E The result was ND and the LOD exceeds the GCL or SCL.
- B The analyte was detected in the method blank (MB), trip blank, or equipment blank and the concentration in the sample did not exceed the blank concentration by a factor of 5.
- J The result is an estimated value because it was greater than the detection limit but less than the LOQ.
- JL The result was an estimated value biased high (+) or low (-) because the analyte failed recovery criteria in the LCS or LCS duplicate sample or both.
- JS The result was an estimated value biased high (+) or low (-) because at least one surrogate failed recovery criteria for the sample.
- JD The result was qualified because the relative percent difference (RPD) between the primary sample and the field duplicate sample exceeded 50 percent for soil or 30 percent for water and at least one of the results is greater than the LOD. If one result was a detect and the other was a ND, then the LOD value was used in the RPD calculation for the ND result.

Project specific MS/MSDs were not required for this project; however, they were included in the analytical batches as the methods required. MS/MSDs were only evaluated if they were performed on samples from this project.

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The overall quality of the data was acceptable. All reported data were considered usable with limitations discussed in this report and in the ADEC Laboratory Data Review Checklists (Appendix F). The following quality control issues were identified during the review:

• Groundwater – Monitoring Wells

- Several ND results had LODs greater than the ADEC GCLs for 1,2,3-TCP and were qualified E. Results exceeding the GCLs may be reported as ND. 1,2,3-TCP was not a COC. Data quality was minimally affected.
- 1-Methylnaphthalene, 2-methylnaphthalene, fluoranthene, and phenanthrene (SW8270SIM) were detected in the MB affecting sample 22MAH-MW4-GW. Affected sample results were qualified B, high bias. All affected sample results were significantly less than the ADEC GCLs. The data quality was minimally affected.
- 1-Methylnaphthalene and 2-methylnaphthalene (SW8270SIM) were detected in the MB affecting samples 22MAH-MW12-GW, 22MAH-MW13-GW, 22MAH-MW3b-GW, 22MAH-MW8b-GW, and 22MAH-MW8b-GWA. All affected samples were qualified B, biased high. All affected results were significantly less than the ADEC GCLs. Data quality was minimally affected.
- RRO (AK103) was detected in the MB affecting samples 22MAH-MW8b-GWA, 22MAH-MW8b-GW, 22MAH-MW3b-GW, and 22MAH-MW12-GW. All affected sample results were qualified B, biased high. All affected results were slightly less than the ADEC GCL. Data quality was minimally affected.
- The primary/field duplicate (22MAH-MW8b-GW/22MAH-MW8b-GWA) had RPDs greater than 30 percent for 1-methylnaphthalene, 2-methylnaphthalene (SW8270SIM), DRO (AK102), and lead (SW6020). All affected samples were qualified JD, unknown bias. All affected results were less than the ADEC GCL. Data quality was minimally affected.

• Groundwater - Temporary Monitoring Wells

- Several ND results had LODs greater than the GCL for 1,2,3-TCP and were qualified E. Results exceeding the ADEC GCL may be reported as ND. 1,2,3-TCP was not a COC. Data quality was minimally affected.
- 1-Methylnaphthalene, 2-methylnaphthalene, fluoranthene, and phenanthrene (SW8270SIM) were detected in the MB affecting samples 22MAH-TW02-GW, 22MAH-TW02-GWA, 22MAH-TW03-GW, 22MAH-TW04-GW, and 22MAH-TW6b-GW. Affected sample results were qualified B, high bias. All affected sample results were significantly less than the ADEC GCL. The data quality was minimally affected.
- Surrogates, fluoranthene-d10 and 2-methylnaphthalene-d10 were recovered low in sample 22MAH-TW01-GW. The affected sample result was qualified JS-, biased low. All affected sample results were ND with LODs significantly less than the ADEC GCL. Data quality was minimally affected.

- For Methods AK101 and SW8260, the surrogate 4-bromofluorobenzene was recovered high in sample 22MAH-TW01-GW. All detected sample results were qualified JS+, biased high. Affected results were either significantly less than the ADEC GCL or exceeded the ADEC GCL by a factor of two or more. Data quality was minimally affected.

Soil Borings

- For Method SW8260 several ND results had LODs greater than the ADEC SCL for 1,1,1,2-tetrachloroethane, 1,2,3-TCP, 1,2-dibromo-3-chloropropane, EDB, 2-hexanone, bromomethane, chloroform, dibromochloromethane, dibromomethane, hexachlorobutadiene, TCE, vinyl chloride, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,2,3-trichlorobenzene, 1,4-dichlorobenzene, naphthalene, and trans-1,3-dichloropropene and were qualified E. Results exceeding the SCL may be reported as ND.
- GRO (AK101) and DRO (AK102) were detected in several MBs affecting samples 22MAH-SB8b-SO6-8, 22MAH-SB8b-SO10-10.5, 22MAH-SB8b-SO10-10.5A, 22MAH-TB01S, 22MAH-SB12-SO10.5.11, 22MAH-SB12-SO2-4, 22MAH-SB13-SO10-10.5, 22MAH-SB13-SO8-10, 22MAH-SB6b-SO9.5-10, 22MAH-SB6b-SO2-4, 22MAH-SB7b-SO10-10.5, 22MAH-SB7b-SO10-10.5A, 22MAH-SB7b-SO6-8, 22MAH-SB3b-SO9.5.10, and 22MAH-SB3b-SO2-4. All detected results were qualified B, biased high. All affected results were significantly less than the ADEC SCL. Data quality was minimally affected.
- For Method SW8260, freon-11 was recovered high in the LCS affecting sample 22MAH-SB8b-SO10-10.5. All results were qualified JL+, biased high. The affected sample result was significantly less than the ADEC SCL. Data quality was minimally affected.
- GRO (AK101) was detected in the trip blank affecting samples 22MAH-SB6b-SO9.5-10, 22MAH-SB6b-SO2-4, 22MAH-SB13-SO10-10.5, 22MAH-SB13-SO8-10, 22MAH-SB7b-SO10-10.5, 22MAH-SB7b-SO10-10.5A, 22MAH-SB7b-SO6-8, 22MAH-SB12-SO10.5-11, 22MAH-SB12-SO2-4, 22MAH-SB3b-SO9.5-10, 22MAH-SB3b-SO2-4, 22MAH-SB8b-SO6-8, 22MAH-SB8b-SO10-10.5, and 22MAH-SB8b-SO10-10.5A. All results were qualified B, biased high. Affected results were significantly less than the ADEC SCL. Data quality was minimally affected.

Wastewater

- Several ND results had LODs greater than the GCL for 1,2,3-TCP (SW8260) and were qualified E. Results exceeding the ADEC GCL may be reported as ND. 1,2,3-TCP was not a COC at this site. Data quality was minimally affected.
- Lead (SW6020) was detected in the MB affecting samples 22MAH-DR01-WW, 22MAH-DR02-WW, 22MAH-DR03-WW, and 22MAH-DR04-WW. All affected samples were qualified B, biased high. All affected results were significantly less than the ADEC GCL. Data quality was minimally affected.

Waste Soil

- For Method SW8260, several ND results had LODs greater than the ADEC SCL for 1,2,3-TCP, 1,2-dibromo-3-chloropropane, EDB, 1,1,1,2-tetrachloroethane, 2-hexanone, bromomethane, chloroform, dibromochloromethane, dibromomethane, hexachlorobutadiene, TCE, and vinyl chloride and were qualified E. Results exceeding the ADEC SCL may be reported as ND.
- For Method SW8270, several ND results had LODs greater than the SCL for 1,2,4-trichlorobenzene, 1,4-dichlorobenzene, 2,4,6-trichlorophenol, 2,4-dichlorophenol, 2,4-dinitrophenol, 2,4-DNT, 2,6-DNT, 3,3'-dichlorobenzidine, 4-chloroaniline, hexachlorobenzene, hexachlorocyclopentadiene, hexachloroethane, naphthalene, nitrobenzene, n-nitrosodimethylamine, n-nitrosodi-n-propylamine and pentachlorophenol and were qualified E. Results exceeding the ADEC SCL may be reported as ND.
- GRO (AK101), bis(2-ethylhexyl)phthalate, and dibutyl phthalate (SW8270) were detected in the MB affecting sample 22MAH-DR-SO. Affected sample results were qualified B, biased high. All affected sample results were significantly less than the ADEC SCL. The data quality was minimally affected.
- GRO (AK101) was detected in the trip blank affecting sample 22MAH-DR-SO. The affected result was significantly less than the ADEC SCL. Data quality was minimally affected.

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4.0 RISK EVALUATION

4.1 HUMAN HEALTH RISK

This section summarizes the calculated risk to human health for soil and groundwater. Cumulative risk was calculated in accordance with the ADEC *Procedures for Calculating Cumulative Risk* (ADEC 2018). Because the most recent monitoring event or site investigation prior to the 2022 SC occurred in 2006, cumulative risk was calculated using the most recently acquired soil and groundwater analytical data from the 2022 SC only. COPCs and COCs were derived as described in Section 2.2.

4.1.1 Soil Contaminants of Potential Concern

Because no contaminant concentrations in soil exceeded one-tenth the ADEC human health screening levels, no COPCs for soil were identified based on the analytical soil data acquired from the 2022 SC. Therefore, cumulative risk in soil was not calculated.

4.1.2 Groundwater Contaminants of Potential Concern

COPCs in groundwater include the following: GRO, DRO, RRO, lead, 1,1-dichloroethane, 1,2,4-TMB, 1,3,5-TMB, ethylbenzene, naphthalene, TCE, xylenes, and chloroform. These contaminants exceeded one-tenth the ADEC Table C human health GCLs (ADEC 2021).

Table 4-1 presents the calculated noncancer HI and carcinogenic risk values for groundwater by applicable receptor and COPC. Although groundwater exposure is considered a complete future pathway for the industrial worker, only the future residential scenario was evaluated because this is the most conservative receptor and because all pathways (ingestion, dermal contact, and inhalation) are considered complete for the future resident. For the future resident, groundwater calculations assume chronic exposures and a child receptor for noncarcinogenic effects. Outputs for the online calculators for potential future scenarios (resident [groundwater]) are included in Appendix G.

Table 4-1
MAH Human Health Risk Summary – Groundwater

COPC	Hazard Index	Carcinogenic Risk
Future	Resident (age-adjusted)	
Chloroform	0.203	8.92×10 ⁻⁵
1,1-Dichloroethane	0.000871	1.19×10 ⁻⁶
Ethylbenzene	0.0125	6.74×10 ⁻⁶
Naphthalene	8.3	3.07×10 ⁻⁴
Trichloroethylene	0.119	6.87×10 ⁻⁷
1,2,4-TMB	1.71	1.19×10 ⁻⁶
1,3,5-TMB	0.483	Not applicable
Xylenes	0.911	Not applicable
Total HI/Risk	12	4.05×10 ⁻⁴
ADEC HI/Risk Threshold	1	1×10 ⁻⁵

Notes:

Bold values exceed the ADEC HI/carcinogenic risk threshold. For definitions, refer to the Acronyms and Abbreviations section.

Key findings of the cumulative risk evaluation are as follows:

- Groundwater cumulative risk exceeds the ADEC threshold for carcinogenic risk. Total carcinogenic risk exceeds the ADEC threshold by a factor of approximately 31.
- Risk drivers include naphthalene, which accounts for nearly all the carcinogenic risk at 75.2
 percent of the total, and chloroform, which accounts for an additional 21.9 percent of the
 total. All other COPCs contribute less than 3 percent total to the total carcinogenic risk.
- Total HI risk exceeds the ADEC threshold by a factor of 13.

To provide the most conservative results, Table 4-2 displays the groundwater cumulative risk calculations for future residential land use by risk type, and both sets of calculations assume chronic exposures and a child receptor for noncarcinogenic effects (Appendix G). The conservative future resident risk calculation results indicated risk from the contaminants detected onsite exceeded the cumulative carcinogenic risk standard of 1×10^{-5} across all exposure pathways and exceeded an HI of 1 for the cumulative noncarcinogenic risk standard across all exposure pathways. Despite the high HI and carcinogenic risk, it is unlikely that exposure will occur, because it is unlikely that residents will be at the MAH site in the future, and unlikely that future residents or future industrial, site, or commercial workers will come in contact with groundwater. Hypothetical future constructions workers could come in contact with groundwater, but no construction is planned for the site.

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Table 4-2
ADEC Groundwater Cumulative Risk Calculations

Risk Type	Cumulative Risk
Ingestion HI – Child	0.927
Inhalation (volatiles) HI – Child	10.1
Dermal HI – Child	0.690
Total Noncarcinogenic HI – Child	11.7
ADEC HI Threshold	1
Ingestion Risk	9.79×10 ⁻⁵
Inhalation (volatiles risk)	3.93×10 ⁻⁴
Dermal Risk	1.55×10 ⁻⁶
Total Cancer Risk	4.05×10 ⁻⁴
ADEC Cancer Risk Threshold	1×10 ⁻⁵

Notes:

Bold values exceed the ADEC HI/carcinogenic risk threshold. For definitions, refer to the Acronyms and Abbreviations section.

4.1.3 Air Contaminants of Potential Concern

The vapor intrusion evaluation based on data from the 2022 SC did not indicate contaminants at concentrations exceeding the residential or commercial target levels in groundwater. However, historical benzene detections in groundwater at the northeast corner of the building suggest that benzene may be present at concentrations exceeding the residential and commercial vapor intrusion thresholds. Therefore, benzene is considered a COPC in indoor air. No COPCs were identified for outdoor air.

4.1.4 Site Contaminants of Concern

In groundwater, naphthalene, chloroform, and 1,2,4-TMB were identified as primary risk drivers and COCs based on the cumulative risk calculations. DRO and RRO were also identified as COCs because the maximum detected concentration of each exceeded the ADEC human health GCLs.

Prior investigations had identified GRO, benzene, ethylbenzene, xylenes, EDB, TCE, 1-methylnaphthalene, 2-methylnaphthalene, and lead as COCs. However, results for these contaminants were either ND or below the ADEC GCLs in all samples collected during the 2022 SC. No COCs were identified for soil or air.

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4.2 ECOLOGICAL RISK

An ADEC ecoscoping form was completed to determine if further ecological screening was necessary for the MAH site (Appendix D). Based on data observed during the SC and results of ecoscoping, no further ecological evaluation is required. No direct visual impacts or acute toxicity from high concentrations of contaminants is present. In Section 2 of the scoping form, the only potential exposure route identified was potential bioaccumulation of lead taken up by soil invertebrates, which are in turn eaten by higher food-chain organisms. Finally, the assessment off-ramped in Section 3 of the form, as none of the criteria listed for habitat were applicable to the MAH site.

5.0 CONCEPTUAL SITE MODEL

ADEC human health CSM scoping and graphic forms have been developed for MAH and are provided in Appendix D. The purpose of the CSM is to describe and evaluate how humans, animals, and plants might contact contaminants at the MAH (ADEC 2014, 2017a).

5.1 POTENTIAL CONTAMINANT SOURCE

Historical USTs at the site were previously determined as the source of contamination at the MAH site. These USTs are shown on Figure A-2. Sources of solvent contamination (e.g., chloroform) are uncertain but could be from historical floor drains, if present, or improper handling and storage of solvent containers.

5.2 RELEASE MECHANISM

Leaks from historical USTs directly to subsurface soil remain the release mechanisms for fuel contamination at the site. Releases of solvents from aircraft parts cleaning or other mechanical operations has also occurred. Although the release mechanism is uncertain, direct discharge from floor drains directly to subsurface soil or groundwater is the most likely release mechanism. Impacted media includes groundwater.

5.3 LAND USE AND EXPOSURE ROUTES

The site is currently 25 percent paved and 75 percent gravel, with contamination present in groundwater at approximately 10 feet bgs. As a result, dermal absorption of contaminants in groundwater (i.e., naphthalene) would only become possible given future construction work at the site that disturbs pavement and exposes the subsurface. There are currently no plans for construction at the site.

Chloroform is present in groundwater and may introduce contaminants via indoor air based on preliminary vapor intrusion evaluation. Results indicate that chloroform may be present in indoor air at concentrations greater than the residential target threshold, indicating that under the hypothetical future resident scenario, this pathway is complete. However, the site is not

slated to become residential property, and therefore exposure is unlikely. Additionally, the preliminary evaluation for vapor intrusion only considered two monitoring wells and more data are needed to confirm if this pathway is complete.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The objectives of the SC were to further investigate soil and groundwater at USTs 9, 12, 13, and 15; delineate previously discovered groundwater contamination; and determine if remedial actions are necessary to protect human health and the environment. During 2022 SC activities, 12 primary (plus 2 duplicate) soil samples were collected from 6 soil borings, and 11 primary (plus 2 duplicate) groundwater samples were collected from 7 monitoring wells and 4 temporary wells.

In summary, soil contamination at MAH had no exceedances of the ADEC SCLs from any of the soil borings advanced during this investigation.

Groundwater contamination in water at MAH sampled from four groundwater wells exceeded the ADEC GCLs, summarized as follows:

- Results from the sample collected from TW01 exceeded the ADEC GCLs for 1,2,4-TMB, chloroform, naphthalene, DRO, and RRO.
- Results from the samples collected from MW3b, MW8b, and MW13 all exceeded the ADEC GCL for chloroform.

6.1 PETROLEUM CONTAMINATION

Temporary well TW01 represents the location of the most petroleum-based contamination observed in any one location during the SC, the source of which is believed to be lateral migration of groundwater contamination from leaking USTs. Contamination at TW01 is comprised primarily of fuel-related compounds (DRO, RRO, 1,2,4-TMB, and naphthalene), although chloroform was also detected and is discussed later in this section. The exceedances of 1,2,4-TMB, DRO, and RRO at TW01 were within one order of magnitude of the ADEC GCLs, while the concentration of naphthalene was within two orders of magnitude of the ADEC GCLs. The well is downgradient of MW-7 and MW-8, which are the former UST-9 (500-gallon diesel tank) and UST-13 (5,000-gallon diesel tank) locations, respectively. Product was encountered at MW-7 during the 2005 and 2006 groundwater monitoring events. Contamination previously detected in exceedance of the ADEC cleanup levels at MW-8 includes GRO, DRO, benzene, ethylbenzene, naphthalene, and xylenes. Similarly,

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concentrations of naphthalene and DRO also exceeded ADEC GCLs at TW01, and GRO, ethylbenzene, and xylenes were detected at concentrations below ADEC GCLs.

Soil sample results from the SC confirm the absence of contamination at former locations of USTs 12 and 15, but could not confirm its absence at the former locations of USTs 9 and 13. Both MW-7 and MW-8 were destroyed during construction and their locations, and at present are beneath the building footprint, thereby inhibiting the ability to sample at the former locations of the two USTs, to remove free product from MW-7 if encountered, and ultimately to investigate and delineate contamination associated with the two former USTs. Although monitoring wells MW-7b and MW-8b were installed as close to MW-7 and MW-8 as possible during the 2022 SC, they may not be close enough to the original source to confirm the absence of soil contamination from former USTs 9 and 13. Ultimately, MW-7b and MW-8b were placed approximately 30 feet and 90 feet away from MW-7 and MW-8, respectively.

No fuel-related VOC exceedances were observed at MW-8b. Therefore, the historically-observed groundwater contamination associated with UST-13 is either completely beneath the building footprint, or MW-8b was not installed in a location directly downgradient enough of MW-8 to capture the contamination.

Results of MW-7b confirmed there is not an upgradient source for the fuel-related contamination previously observed at MW-7 (former UST-9) but the analytical results may not be representative of any contamination left in situ. The monitoring well was installed approximately 30 feet upgradient from MW-7 and former UST-9 location. Because product was discovered at MW-7 in previous investigations, the likelihood of residual contamination in soil, groundwater, and potentially soil gas in the vicinity of the former well is likely present but inaccessible.

6.2 CHLOROFORM CONTAMINATION

Chloroform in groundwater at TW01 and elsewhere around the site (i.e., MW-3b, MW-8b, and MW-13) can be sourced as either a primary ingredient in solvents or as a degradation product from tetrachloroethylene (PCE), likely resulting from releases associated with aircraft parts

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cleaning operations and other mechanical work requiring solvent usage. The low-level concentrations (i.e., below ADEC GCLs) of PCE, TCE, and cis-dichloroethylene detected support the idea that solvents were historically used. These solvents could have been released from floor drains located inside buildings directly to subsurface soil or groundwater, or from improper handling of containers of solvents. Because the exact depth of the discharge point of suspected floor drains is unknown, it is also unknown if the discharge occurred directly to groundwater or in vadose zone soil.

The presence and pattern of chloroform exceedances at the MAH site supports the idea that chloroform was most likely released from buildings, as opposed to having been transported onsite from an offsite source via groundwater flow. Chloroform exceedances of ADEC GCLs occurred at TW01, MW-3B, MW-8b, and MW-13 (Figure A-3). Concentrations at TW01 and MW-3B, which are aligned more directly downgradient from the center of the former MAH building (when compared to other wells), were an order of magnitude greater than at the other monitoring wells. This supports idea of potential for releases of chloroform from the building itself, and most likely from floor drains. Notably, chloroform was ND at MW-4, TW02, TW03, and MW-6b, all of which are crossgradient from the center of the site buildings, again supporting the idea that chloroform transported via groundwater is sourced from the buildings. Detections of chloroform at other monitoring wells not in the direct flow path of groundwater, such as at MW-7b and MW-13, could be the result of minor spills or releases due to improper handling or usage of chloroform-containing solvents around the site.

Another potential source of chloroform contamination, though less likely, is disinfection of drinking water systems because chloroform is a disinfection byproduct often found in tap water (EPA 2000). Chloroform is also a common laboratory contaminant; however, no detections of chloroform were encountered in MBs from the laboratory, thereby confirming that chloroform is a site contaminant.

Although introduction of chloroform to groundwater is believed to be from parts cleaning and other mechanical operations that released the contaminant to floor drains, the physical properties of chloroform may complicate the ability to clearly identify the release mechanism and timeframe. The fact that chloroform was not detected in soil samples taken from soil

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FINAL

borings colocated with monitoring wells is unsurprising due to the low adsorption potential of the contaminant and slight solubility in water (EPA 2000). If chloroform were released from building floor drains as suspected, concentrations in groundwater at the source (i.e. directly beneath the building) may have the greatest concentrations. However, due to its slight solubility and due to the uncertainty surrounding the release timeframe, it is also possible that contamination from historical releases of chloroform could be mostly dispersed and transported downgradient.

6.3 VAPOR INTRUSION

Screening of groundwater results from the 2022 SC against ADEC groundwater target levels (ADEC 2017b) indicated VOCs detected at MW-7b and MW-8b do not pose a vapor intrusion risk at the detected concentrations. However, NAPL and benzene at concentrations exceeding the ADEC residential and commercial target levels for vapor intrusion were discovered at MW-7 during the 2004 SC, located under the northeast corner of the hangar. Data obtained from MW-7b, located approximately 30 feet upgradient from former MW-7, were ND for benzene and may not be representative of conditions at MW-7. Therefore, vapor intrusion should be considered a potential risk and further investigated.

6.4 RISK EVALUATION AND COCS

Cumulative risk exceeded the ADEC threshold for carcinogenic risk and noncarcinogenic risk in groundwater only. Primary risk drivers for carcinogenic risk are chloroform and naphthalene. Primary risk drivers for noncarcinogenic risk are naphthalene and 1,2,4-TMB.

Site COCs identified through this SC and historical investigations are as follows, for groundwater only:

Fuels: GRO, DRO, RRO

• Fuel-related VOCs: benzene, ethylbenzene, xylenes, 1-methylnaphthalene, 2-methylnaphthalene, and 1,2,4-TMB

Solvent-based VOCs: TCE and chloroform

Metals: lead

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No COCs were identified for soil or air. Further investigation of the potential for indoor air contamination is necessary to determine if site COCs will include additional contaminants in air. Based on results of the investigation, the following actions are recommended:

- Resume/continue groundwater monitoring at the MAH site for GRO, DRO, RRO, VOCs, PAHs, and lead.
- Investigate the source of chloroform contamination. Because a suspected source could be floor drains inside both buildings, it is recommended that historical as-builts be examined and building inspections be conducted to identify potential historical floor drains. Once/if identified, soil borings and groundwater samples should be collected from soil borings and groundwater wells placed at strategic locations downgradient (west-northwest) of the suspected floor drains.
- Install additional monitoring wells downgradient of MW-3b, located 30 feet from the property boundary to determine if chloroform contamination is being transported offsite.
- Delineate petroleum and solvent contamination in groundwater at TW01 by advancing temporary well points at strategic locations upgradient and downgradient of TW01. Downgradient temporary well placement should be west (between TW01 and MW-3), northwest (between TW01 and MW-3b), and north of TW01. Upgradient temporary well placement should be south, southeast, and northeast (between TW01 and MW-8b).
- Investigate the presence of product and soil contamination at the groundwater interface near the former location of UST-9. Drill a soil boring (to be completed as a monitoring well) in the immediate vicinity (e.g., within 5 feet) of former MW-7. Depending upon results of the MW-7 replacement and sampling, consider drilling soil borings and installing permanent or temporary well points to delineate contamination in soil and groundwater at the former MW-7 location. Recovery wells may be needed if NAPL is encountered.
- Evaluate the vapor intrusion pathway at the hangar due to the presence of NAPL and benzene at the northeast corner of the building. Because it is often difficult to distinguish vapor intrusion potential inside a building containing petroleum products for operational purposes, both subslab and the breathing space should simultaneously be sampled. Contaminants detected in indoor breathing zone air that are corroborated with subslab sample results would be evidence of vapor intrusion from subsurface contamination, whereas uncorroborated detections in breathing zone air only would be evidence of contamination from building operations. Therefore, the sampling plan should include installation of a subslab sampling point paired with an indoor air sampler (Summa canister), with the indoor air sampler placed at breathing zone height above the subslab sample point. The subslab/breathing zone sample pairs should be placed in the northeast corner of the building, where the suspected NAPL plume exists, as well as in southwest the corner of the building as a point of comparison to evaluate the magnitude and expanse of indoor air contamination, should any be detected.
- Request No Further Action for investigation of soil contamination in association with USTs 12 and 15.

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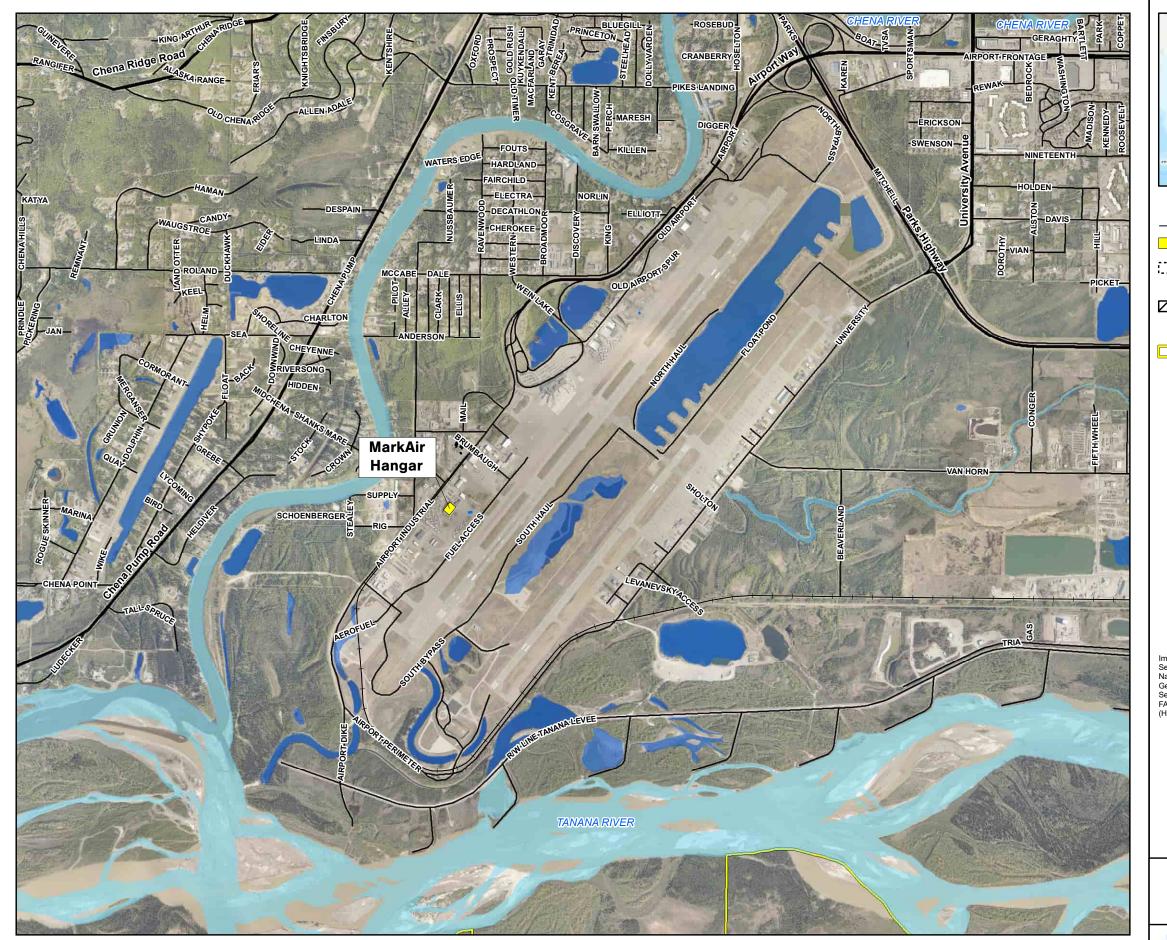
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APPENDIX A Site Figures







— Alaska Railroad

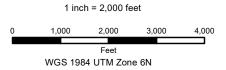
MarkAir Hangar

Historical Excavation Historical

Former Underground Storage Tanks

Ft. Wainwright Installation Boundary

Imagery: ArcGIS Map Service
Server: https://gisportal.fnsb.us/image/services
Name: Imagery_2020_Pictometry_Fairbanks
Geospatial Features from Fairbanks North Star Borough GIS. Accessed 31 May 2022.
Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community





DOT&PF FAI MARKAIR HANGAR SITE OVERVIEW & PROPOSED WELL LOCATIONS 2022 SITE CHARACTERIZATION WORK PLAN

FAIRBANKS INTERNATIONAL AIRPORT, FAIRBANKS, ALASKA

JACOBS

07 FEB 2023

G. WADE

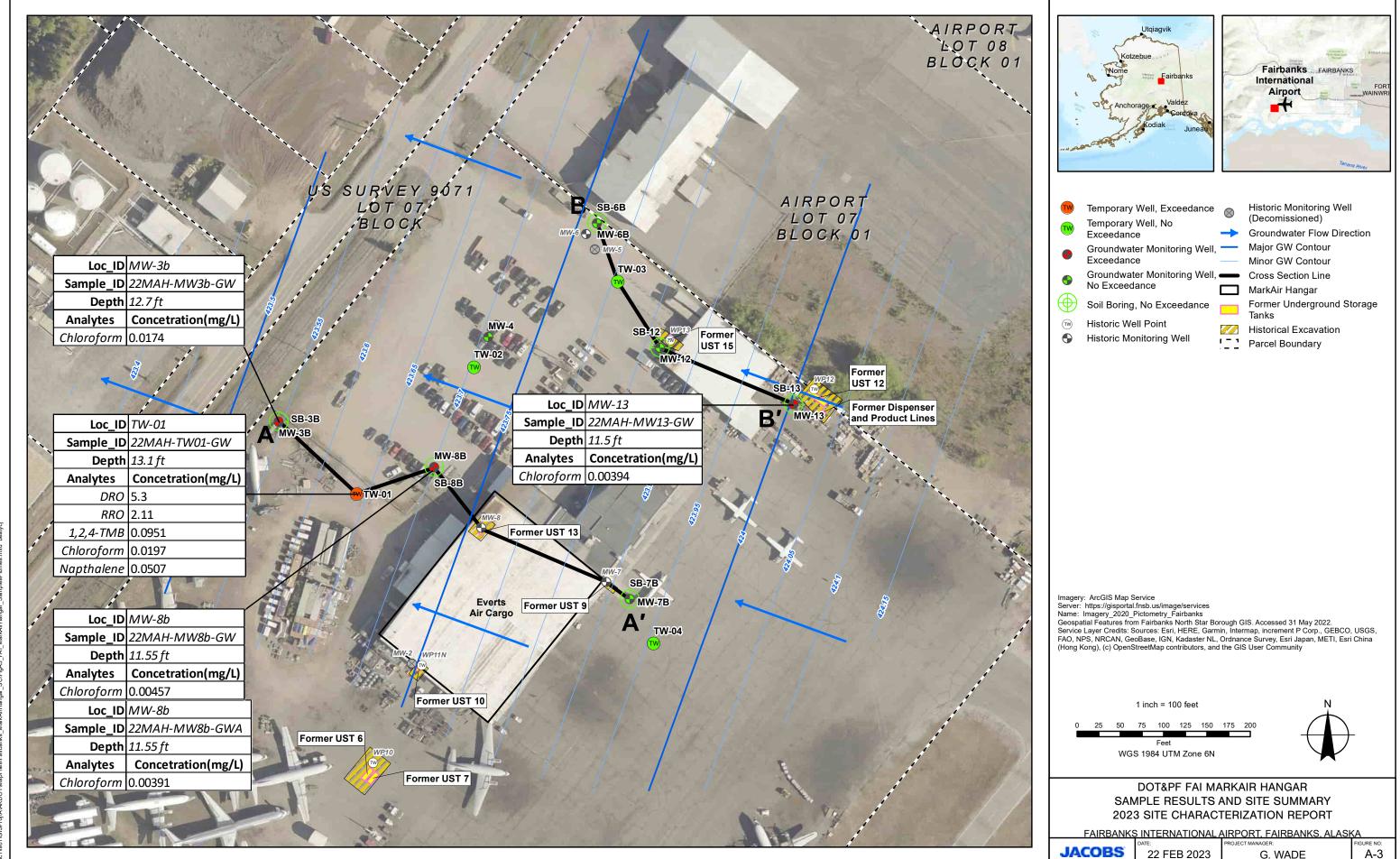
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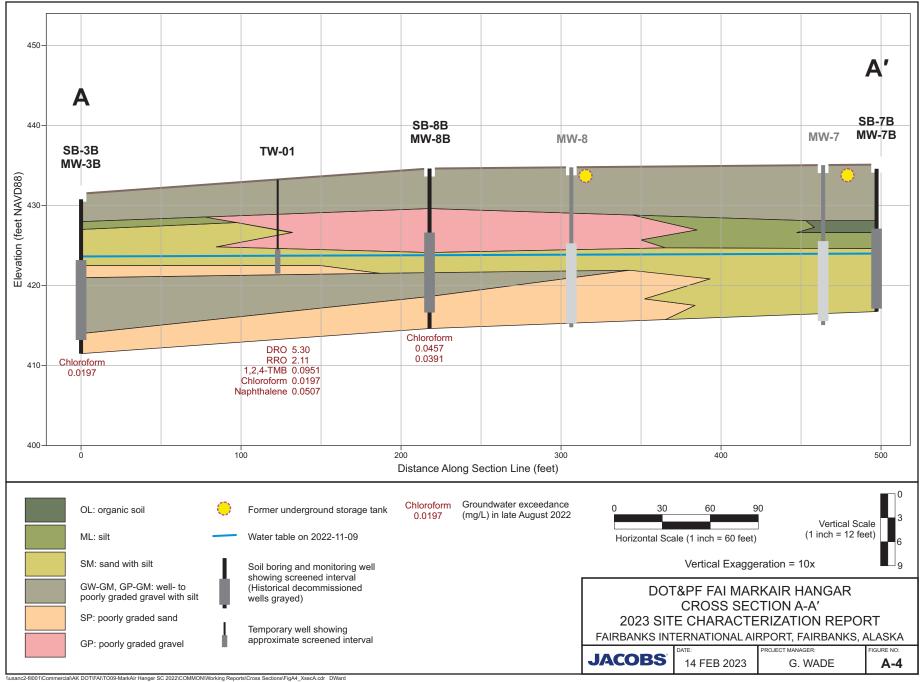
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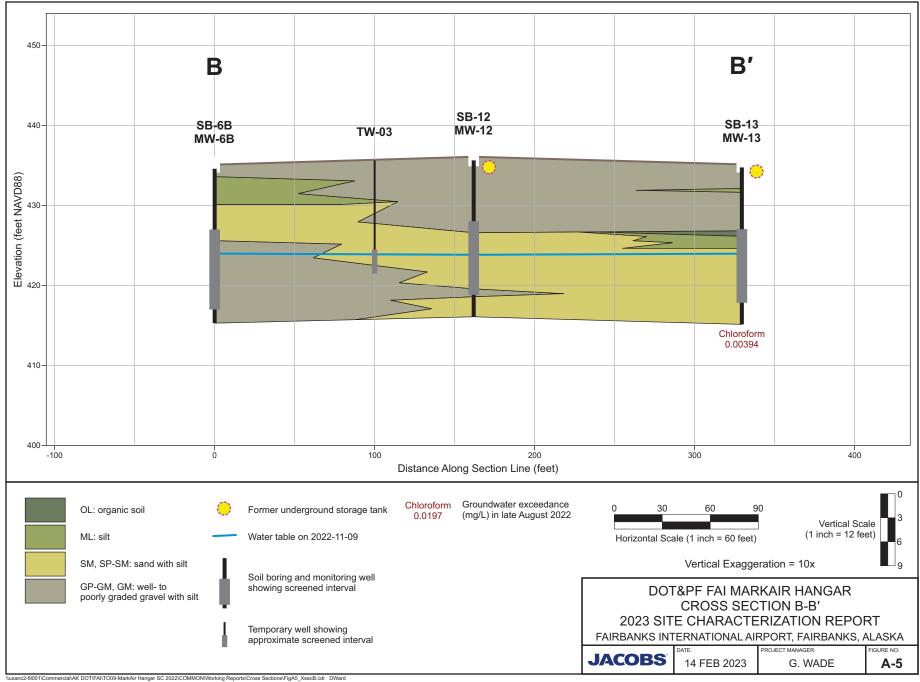
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A-2







APPENDIX B Photograph Log

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Photo No. 1 – SB-6b core from 0–5 feet (top)



Photo No. 2 – SB-6b core from 5–10 feet (top)

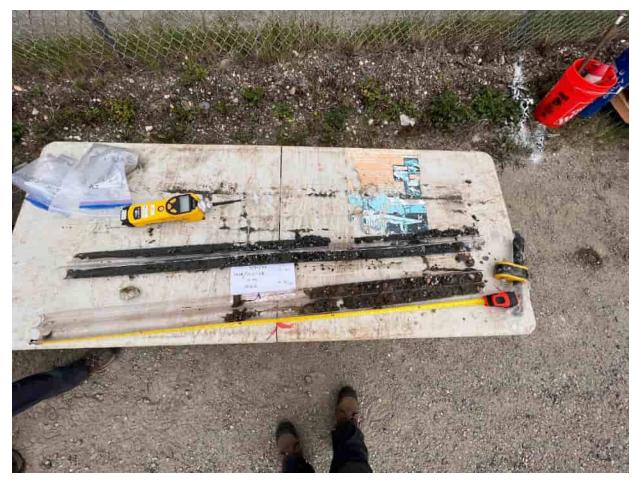


Photo No. 3 – SB-6b core from 10–15 feet (bottom core) and 15–20 feet (top core)



Photo No. 4 – Finished install of MW-6b

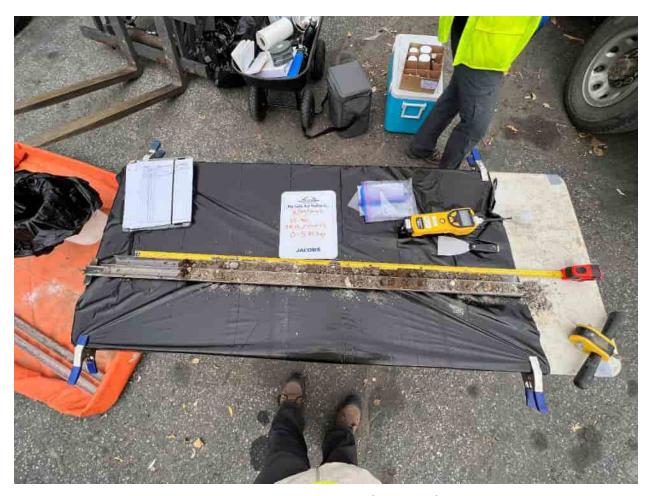


Photo No. 5 – SB-13 core from 0–5 feet

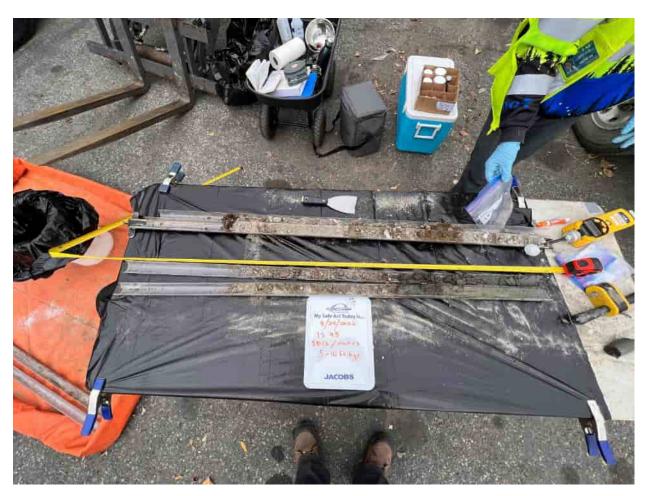


Photo No. 6 – SB-13 core from 5–10 feet



Photo No. 7 – SB-13 core from 10–15 feet



Photo No. 8 – SB-13 core from 15–20 feet



Photo No. 9 – Drill rig setup at TW-04



Photo No. 10 – Drill rig beginning the advancement of SB-7b



Photo No. 11 – SB-7b core from 0–5 feet

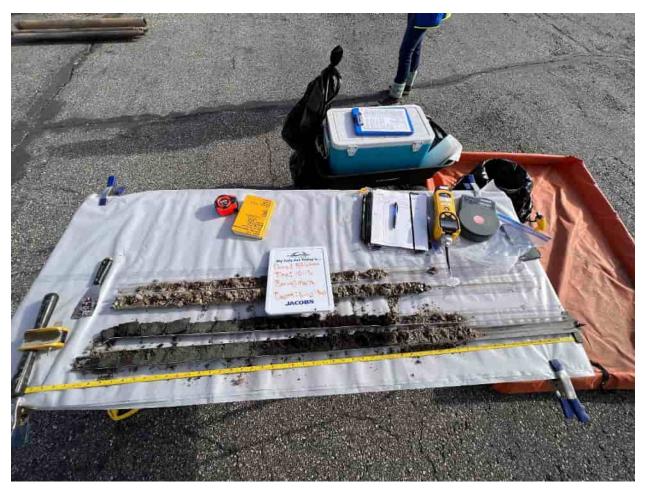


Photo No. 12 – SB-7b core from 5–10 feet

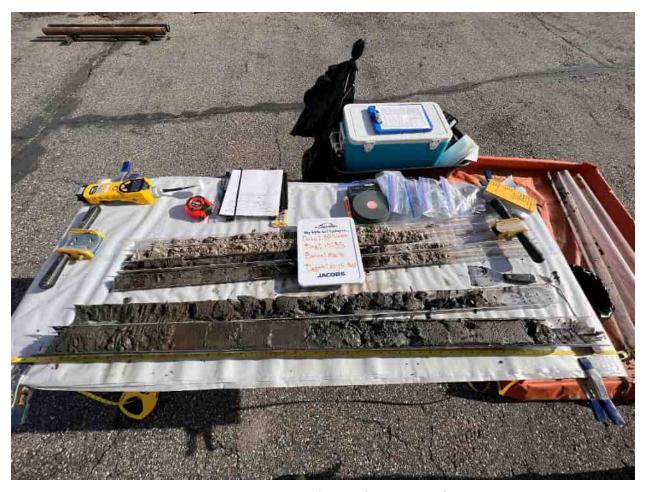


Photo No. 13 – SB-7b core from 10–15 feet



Photo No. 14 – SB-7b core from 15–18 feet



Photo No. 15 – Drill rig setup at SB-13



Photo No. 16 – Drill rig setup at TW-03



Photo No. 17 – Installation of TW-03



Photo No. 18 – SB-12 core from 0–5 feet

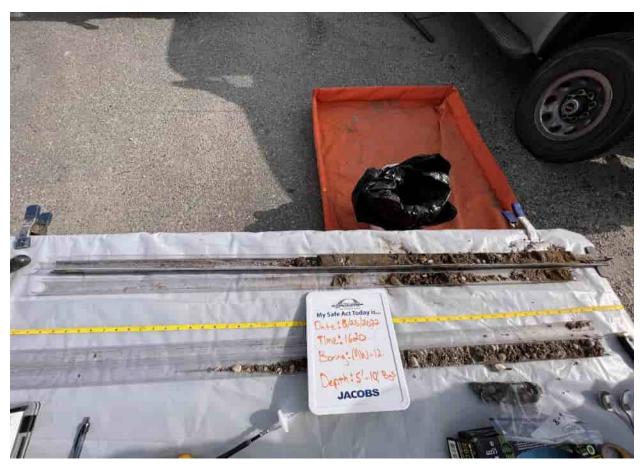


Photo No. 19 – SB-12 core from 5–10 feet

MarkAir Hangar Site Characterization Report – Fairbanks, Alaska

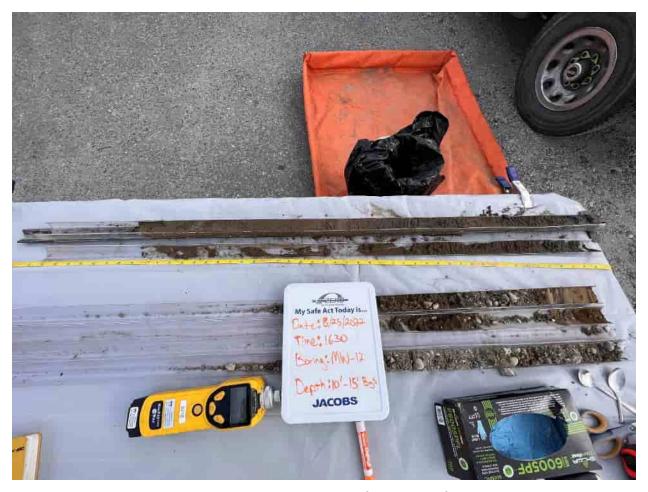


Photo No. 20 – SB-12 core from 10–15 feet

MarkAir Hangar Site Characterization Report – Fairbanks, Alaska

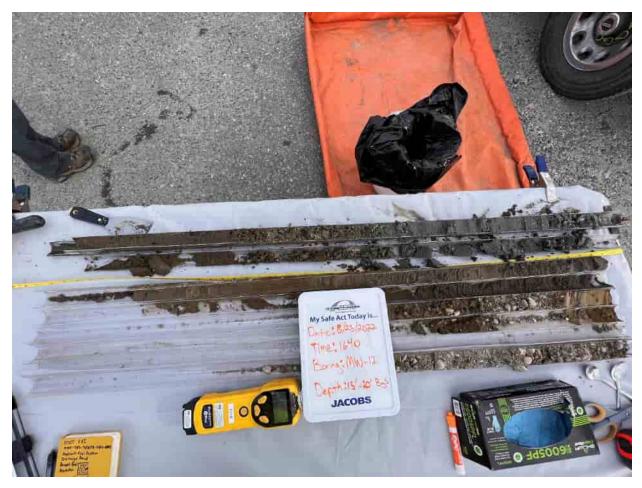


Photo No. 21 – SB-12 core from 15–20 feet

MarkAir Hangar Site Characterization Report – Fairbanks, Alaska

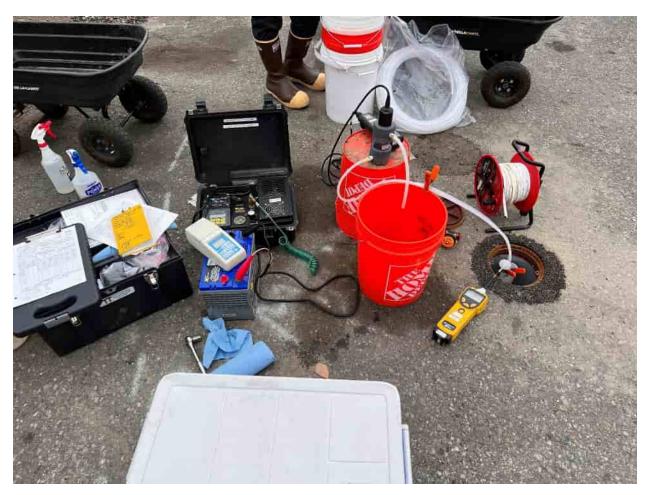


Photo No. 22 – Typical groundwater sampling setup at MW-13

APPENDIX C
Data Quality Assessment
and
Lab Reports
(appended separately)

2022 MarkAir Warehouse Groundwater Monitoring – Fairbanks International Airport, Fairbanks, Alaska Table F.1 Sample Summary

Site	CoC Number	Laboratory	Laboratory SDG	Sample ID	Location ID	Collection Date	Collection Time	Sampler	Quantity	Container Type	Container Volume	Preservation	Matrix	Analytical Method	QC Type	TAT (days)	Notes
ADOT MAH	22ADOT-MAH03	SGS	1225240	22MAH-SB6b-SO9.5-10	SB6b	8/24/2022	1155	KS,AJ,LA,KJ,LL	1	GA	4 oz	< 6°C, MeOH	SO	AK101, SW8260, SW8260 SIM		14 Day	GRO, VOC, EDB
ADOT MAH ADOT MAH	22ADOT-MAH03 22ADOT-MAH03	SGS SGS	1225240 1225240	22MAH-SB6b-SO9.5-10 22MAH-SB6b-SO2-4	SB6b SB6b	8/24/2022 8/24/2022	1155 1218	KS,AJ,LA,KJ,LL KS.AJ.LA.KJ.LL	1	GA GA	8 oz 4 oz	< 6°C < 6°C. MeOH	SO SO	AK102/103, SW8270 SIM, SW6020 AK101, SW8260, SW8260 SIM		14 Day 14 Day	DRO/RRO, PAH, Lead GRO, VOC, EDB
ADOT MAH	22ADOT-MAH03 22ADOT-MAH03	SGS	1225240	22MAH-SB6b-SO2-4	SB6b	8/24/2022	1218	KS,AJ,LA,KJ,LL KS,AJ,LA,KJ,LL	1	GA	8 oz	< 6°C	SO	AK101, 3W6260, 3W6260 3IW AK102/103, SW8270 SIM, SW6020		14 Day	DRO/RRO, PAH, Lead
ADOT MAH	22ADOT-MAH03	SGS	1225240	22MAH-SB13-SO10-10.5	SB16	8/24/2022	1600	KS,AJ,LA,KJ,LL	1	GA	4 oz	< 6°C, MeOH	SO	AK101, SW8260, SW8260 SIM		14 Day	GRO, VOC, EDB
ADOT MAH ADOT MAH	22ADOT-MAH03 22ADOT-MAH03	SGS SGS	1225240 1225240	22MAH-SB13-SO10-10.5 22MAH-SB13-SO8-10	SB16 SB16	8/24/2022 8/24/2022	1600 1615	KS,AJ,LA,KJ,LL KS.AJ.LA.KJ.LL	1	GA GA	8 oz 4 oz	< 6°C < 6°C, MeOH	SO SO	AK102/103, SW8270 SIM, SW6020 AK101, SW8260, SW8260 SIM		14 Day 14 Day	DRO/RRO, PAH, Lead GRO, VOC, EDB
ADOT MAH	22ADOT-MAH03	SGS	1225240	22MAH-SB13-SO8-10	SB16	8/24/2022	1615	KS,AJ,LA,KJ,LL	1	GA	8 oz	< 6°C	SO	AK102/103, SW8270 SIM, SW6020		14 Day	DRO/RRO, PAH, Lead
ADOT MAH ADOT MAH	22ADOT-MAH03 22ADOT-MAH03	SGS SGS	1225240 1225240	22MAH-SB7b-SO10-10.5 22MAH-SB7b-SO10-10.5	SB7b SB7b	8/25/2022 8/25/2022	1048 1048	KS,AJ,LA,KJ,LL KS.AJ.LA.KJ.LL	1	GA GA	4 oz 8 oz	< 6°C, MeOH < 6°C	SO SO	AK101, SW8260, SW8260 SIM AK102/103, SW8270 SIM, SW6020		14 Day 14 Day	GRO, VOC, EDB DRO/RRO, PAH, Lead
ADOT MAH	22ADOT-MAH03	SGS	1225240	22MAH-SB7b-SO10-10.5A	SB7b	8/25/2022	1048	KS,AJ,LA,KJ,LL	1	GA	4 oz	< 6°C, MeOH	SO	AK101, SW8260, SW8260 SIM	Dup	14 Day	GRO, VOC, EDB
ADOT MAH	22ADOT-MAH03	SGS	1225240	22MAH-SB7b-SO10-10.5A	SB7b	8/25/2022	1048	KS,AJ,LA,KJ,LL	1	GA	8 oz	< 6°C	SO	AK102/103, SW8270 SIM, SW6020	Dup	14 Day	DRO/RRO, PAH, Lead
ADOT MAH ADOT MAH	22ADOT-MAH03 22ADOT-MAH03	SGS SGS	1225240 1225240	22MAH-SB7b-SO6-8 22MAH-SB7b-SO6-8	SB7b SB7b	8/25/2022 8/25/2022	1115 1115	KS,AJ,LA,KJ,LL KS,AJ,LA,KJ,LL	1	GA GA	4 oz 8 oz	< 6°C, MeOH < 6°C	SO SO	AK101, SW8260, SW8260 SIM AK102/103, SW8270 SIM, SW6020		14 Day 14 Day	GRO, VOC, EDB DRO/RRO, PAH, Lead
ADOT MAH	22ADOT-MAH02	SGS	1225223	22MAH-MW4-GW	MW4	8/25/2022	0950	KS,AJ,LA,KJ,LL	9	VOA	40mL	<6°C; HCI	GW	AK101, SW8260, SW8260 SIM		14 Day	GRO, VOCs, EDB
ADOT MAH ADOT MAH	22ADOT-MAH02 22ADOT-MAH02	SGS SGS	1225222 1225222	22MAH-MW4-GW 22MAH-MW4-GW	MW4 MW4	8/25/2022 8/25/2022	0950 0950	KS,AJ,LA,KJ,LL KS,AJ,LA,KJ,LL	2	GA GA	250mL 250mL	<6°C; HCI <6°C	GW GW	AK102/103 SW8270 SIM		14 Day 14 Day	DRO/RRO PAHs
ADOT MAH	22ADOT-MAH02 22ADOT-MAH02	SGS	1225222	22MAH-MW4-GW	MW4	8/25/2022	0950	KS,AJ,LA,KJ,LL KS,AJ,LA,KJ,LL	2	Poly	125mL	HNO3	GW	SW6270 SIM SW6020A		14 Day	Lead
ADOT MAH	22ADOT-MAH02	SGS	1225223	22MAH-TW04-GW	TW04	8/25/2022	1145	KS,AJ,LA,KJ,LL	9	VOÁ	40mL	<6°C; HCI	GW	AK101, SW8260, SW8260 SIM		14 Day	GRO, VOCs, EDB
ADOT MAH ADOT MAH	22ADOT-MAH02 22ADOT-MAH02	SGS SGS	1225222 1225222	22MAH-TW04-GW 22MAH-TW04-GW	TW04 TW04	8/25/2022 8/25/2022	1145 1145	KS,AJ,LA,KJ,LL KS.AJ,LA,KJ,LL	2	GA GA	250mL 250mL	<6°C; HCI <6°C	GW GW	AK102/103 SW8270 SIM		14 Day 14 Day	DRO/RRO PAHs
ADOT MAH	22ADOT-MAH02 22ADOT-MAH02	SGS	1225222	22MAH-TW04-GW	TW04	8/25/2022	1145	KS,AJ,LA,KJ,LL KS,AJ,LA,KJ,LL	1	Poly	125mL	HNO3	GW	SW6020A		14 Day	Lead
ADOT MAH	22ADOT-MAH03	SGS	1225240	22MAH-SB12-SO10.5-11	SB12	8/25/2022	1655	KS,AJ,LA,KJ,LL	1	GA	4 oz	< 6°C, MeOH	SO	AK101, SW8260, SW8260 SIM		14 Day	GRO, VOC, EDB
ADOT MAH ADOT MAH	22ADOT-MAH03 22ADOT-MAH03	SGS SGS	1225240 1225240	22MAH-SB12-SO10.5-11 22MAH-SB12-SO2-4	SB12 SB12	8/25/2022 8/25/2022	1655 1655	KS,AJ,LA,KJ,LL KS,AJ,LA,KJ,LL	1	GA GA	8 oz 4 oz	< 6°C < 6°C. MeOH	SO SO	AK102/103, SW8270 SIM, SW6020 AK101, SW8260, SW8260 SIM		14 Day 14 Day	DRO/RRO, PAH, Lead GRO, VOC, EDB
ADOT MAH	22ADOT-MAH03	SGS	1225240	22MAH-SB12-SO2-4	SB12	8/25/2022	1655	KS,AJ,LA,KJ,LL	1	GA	8 oz	< 6°C	SO	AK102/103, SW8270 SIM, SW6020		14 Day	DRO/RRO, PAH, Lead
ADOT MAH	22ADOT-MAH02	SGS	1225223	22MAH-TW03-GW	TW03	8/25/2022	1640	KS,AJ,LA,KJ,LL	9	VOA	40mL	<6°C; HCI	GW	AK101, SW8260, SW8260 SIM		14 Day	GRO, VOCs, EDB
ADOT MAH ADOT MAH	22ADOT-MAH02 22ADOT-MAH02	SGS SGS	1225222 1225222	22MAH-TW03-GW 22MAH-TW03-GW	TW03 TW03	8/25/2022 8/25/2022	1640 1640	KS,AJ,LA,KJ,LL KS.AJ.LA.KJ.LL	2	GA GA	250mL 250mL	<6°C; HCI <6°C	GW GW	AK102/103 SW8270 SIM		14 Day 14 Day	DRO/RRO PAHs
ADOT MAH	22ADOT-MAH02	SGS	1225222	22MAH-TW03-GW	TW03	8/25/2022	1640	KS,AJ,LA,KJ,LL	1	Poly	125mL	HNO3	GW	SW6020A		14 Day	Lead
ADOT MAH	22ADOT-MAH02	SGS	1225223	22MAH-TW02-GW	TW02	8/26/2022	0930	KS,AJ,LA,KJ,LL	9	VOA	40mL	<6°C; HCI	GW	AK101, SW8260, SW8260 SIM		14 Day	GRO, VOCs, EDB
ADOT MAH ADOT MAH	22ADOT-MAH02 22ADOT-MAH02	SGS SGS	1225222 1225222	22MAH-TW02-GW 22MAH-TW02-GW	TW02 TW02	8/26/2022 8/26/2022	0930 0930	KS,AJ,LA,KJ,LL KS,AJ,LA,KJ,LL	2 2	GA GA	250mL 250mL	<6°C; HCI <6°C	GW GW	AK102/103 SW8270 SIM		14 Day 14 Day	DRO/RRO PAHs
ADOT MAH	22ADOT-MAH02	SGS	1225222	22MAH-TW02-GW	TW02	8/26/2022	0930	KS,AJ,LA,KJ,LL	1	Poly	125mL	HNO3	GW	SW6020A		14 Day	Lead
ADOT MAH ADOT MAH	22ADOT-MAH02 22ADOT-MAH02	SGS SGS	1225223 1225222	22MAH-TW02-GWA 22MAH-TW02-GWA	TW02 TW02	8/26/2022 8/26/2022	0930 0930	KS,AJ,LA,KJ,LL KS.AJ.LA.KJ.LL	9 2	VOA GA	40mL 250mL	<6°C; HCI <6°C; HCI	GW GW	AK101, SW8260, SW8260 SIM AK102/103	Dup	14 Day 14 Day	GRO, VOCs, EDB DRO/RRO
ADOT MAH	22ADOT-MAH02 22ADOT-MAH02	SGS	1225222	22MAH-TW02-GWA	TW02	8/26/2022	0930	KS,AJ,LA,KJ,LL KS,AJ,LA,KJ,LL	2	GA	250mL	<6°C	GW	SW8270 SIM	Dup Dup	14 Day	PAHs
ADOT MAH	22ADOT-MAH02	SGS	1225222	22MAH-TW02-GWA	TW02	8/26/2022	0930	KS,AJ,LA,KJ,LL	1	Poly	125mL	HNO3	GW	SW6020A	Dup	14 Day	Lead
ADOT MAH ADOT MAH	22ADOT-MAH03 22ADOT-MAH03	SGS SGS	1225240 1225240	22MAH-SB3b-SO9.5-10 22MAH-SB3b-SO9.5-10	SB3b SB3b	8/26/2022 8/26/2022	1515 1515	KS,AJ,LA,KJ,LL KS,AJ,LA,KJ,LL	1	GA GA	4 oz 8 oz	< 6°C, MeOH < 6°C	SO SO	AK101, SW8260, SW8260 SIM AK102/103, SW8270 SIM, SW6020		14 Day 14 Day	GRO, VOC, EDB DRO/RRO, PAH, Lead
ADOT MAH	22ADOT-MAH03	SGS	1225240	22MAH-SB3b-SO2-4	SB3b	8/26/2022	1530	KS,AJ,LA,KJ,LL	1	GA GA	4 oz	< 6°C, MeOH	SO	AK101, SW8260, SW8260 SIM		14 Day	GRO, VOC, EDB
ADOT MAH	22ADOT-MAH03	SGS	1225240	22MAH-SB3b-SO2-4	SB3b	8/26/2022	1530	KS,AJ,LA,KJ,LL	1	GA	8 oz	< 6°C	SO	AK102/103, SW8270 SIM, SW6020		14 Day	DRO/RRO, PAH, Lead
ADOT MAH ADOT MAH	22ADOT-MAH02 22ADOT-MAH02	SGS SGS	1225223 1225222	22MAH-TW01-GW 22MAH-TW01-GW	TW01 TW01	8/26/2022 8/26/2022	1610 1610	KS,AJ,LA,KJ,LL KS.AJ.LA.KJ.LL	9 2	VOA GA	40mL 250mL	<6°C; HCI <6°C: HCI	GW GW	AK101, SW8260, SW8260 SIM AK102/103		14 Day 14 Day	GRO, VOCs, EDB DRO/RRO
ADOT MAH	22ADOT-MAH02	SGS	1225222	22MAH-TW01-GW	TW01	8/26/2022	1610	KS,AJ,LA,KJ,LL	2	GA	250mL	<6°C	GW	SW8270 SIM		14 Day	PAHs
ADOT MAH	22ADOT-MAH02	SGS	1225222	22MAH-TW01-GW	TW01	8/26/2022	1610	KS,AJ,LA,KJ,LL	1	Poly	125mL	HNO3	GW	SW6020A		14 Day	Lead
ADOT MAH ADOT MAH	22ADOT-MAH03 22ADOT-MAH03	SGS SGS	1225240 1225240	22MAH-SB8b-SO6-8 22MAH-SB8b-SO6-8	SB8b SB8b	8/27/2022 8/27/2022	0900 0900	KS,AJ,LA,KJ,LL KS,AJ,LA,KJ,LL	1	GA GA	4 oz 8 oz	< 6°C, MeOH < 6°C	SO SO	AK101, SW8260, SW8260 SIM AK102/103, SW8270 SIM, SW6020		14 Day 14 Day	GRO, VOC, EDB DRO/RRO, PAH, Lead
ADOT MAH	22ADOT-MAH03	SGS	1225240	22MAH-SB8b-SO10-10.5	SB8b	8/27/2022	0915	KS,AJ,LA,KJ,LL	1	GA	4 oz	< 6°C, MeOH	SO	AK101, SW8260, SW8260 SIM		14 Day	GRO, VOC, EDB
ADOT MAH ADOT MAH	22ADOT-MAH03 22ADOT-MAH03	SGS SGS	1225240 1225240	22MAH-SB8b-SO10-10.5 22MAH-SB8b-SO10-10.5A	SB8b SB8b	8/27/2022 8/27/2022	0915 0915	KS,AJ,LA,KJ,LL KS,AJ,LA,KJ,LL	1	GA GA	8 oz 4 oz	< 6°C < 6°C, MeOH	SO SO	AK102/103, SW8270 SIM, SW6020 AK101, SW8260, SW8260 SIM	Dup	14 Day 14 Day	DRO/RRO, PAH, Lead GRO, VOC, EDB
ADOT MAH	22ADOT-MAH03 22ADOT-MAH03	SGS	1225240	22MAH-SB8b-SO10-10.5A	SB8b	8/27/2022	0915	KS,AJ,LA,KJ,LL	1	GA	8 oz	< 6°C	SO	AK101, 3W6200, 3W6200 3IW AK102/103, SW8270 SIM, SW6020	Dup	14 Day	DRO/RRO, PAH, Lead
ADOT MAH	22ADOT-MAH02	SGS	1225223	22MAH-TW6b-GW	TW6b	8/27/2022	1530	KS,AJ,LA,KJ,LL	9	VOA	40mL	<6°C; HCI	GW	AK101, SW8260, SW8260 SIM	•	14 Day	GRO, VOCs, EDB
ADOT MAH ADOT MAH	22ADOT-MAH02 22ADOT-MAH02	SGS SGS	1225222 1225222	22MAH-TW6b-GW 22MAH-TW6b-GW	TW6b TW6b	8/27/2022 8/27/2022	1530 1530	KS,AJ,LA,KJ,LL KS,AJ,LA,KJ,LL	2	GA GA	250mL 250mL	<6°C; HCI <6°C	GW GW	AK102/103 SW8270 SIM		14 Day 14 Day	DRO/RRO PAHs
ADOT MAH	22ADOT-MAH02	SGS	1225222	22MAH-TW6b-GW	TW6b	8/27/2022	1530	KS,AJ,LA,KJ,LL	1	Poly	125mL	HNO3	GW	SW6020A		14 Day	Lead
ADOT MAH	22ADOT-MAH03	SGS	1225240	22MAH-TB01S	TB01S	8/24/2022	0800	KS,AJ,LA,KJ,LL	1	GA	4 oz	< 6°C, MeOH	SO	AK101, SW8260, SW8260 SIM	TB	14 Day	GRO, VOC, EDB
ADOT MAH ADOT MAH	22ADOT-MAH02 22ADOT-MAH04	SGS SGS	1225223 1225314	22MAH-TB01W 22MAH-MW13-GW	TB01W MW13	8/25/2022 8/30/2022	0800 1105	KS,AJ,LA,KJ,LL KS,AJ,LA,MC,LL	9	VOA VOA	40mL 40mL	<6°C; HCI <6°C; HCI	GW GW	AK101, SW8260, SW8260 SIM AK101, SW8260, SW8260 SIM	ТВ	14 Day 14 Day	GRO, VOCs, EDB GRO, VOCs, EDB
ADOT MAH	22ADOT-MAH04	SGS	1225314	22MAH-MW13-GW	MW13	8/30/2022	1105	KS,AJ,LA,MC,LL	2	GA	250mL	<6°C; HCI	GW	AK102/103		14 Day	DRO/RRO
ADOT MAH	22ADOT-MAH04	SGS	1225314	22MAH-MW13-GW	MW13	8/30/2022	1105	KS,AJ,LA,MC,LL	2	GA Poly	250mL	<6°C	GW	SW8270 SIM		14 Day	PAHs
ADOT MAH ADOT MAH	22ADOT-MAH04 22ADOT-MAH04	SGS SGS	1225314 1225314	22MAH-MW13-GW 22MAH-MW7b-GW	MW13 MW7b	8/30/2022 8/30/2022	1105 1245	KS,AJ,LA,MC,LL KS,AJ,LA,MC,LL	9	Poly VOA	125mL 40mL	HNO3 <6°C; HCI	GW GW	SW6020A AK101, SW8260, SW8260 SIM		14 Day 14 Day	Lead GRO, VOCs, EDB
ADOT MAH	22ADOT-MAH04	SGS	1225314	22MAH-MW7b-GW	MW7b	8/30/2022	1245	KS,AJ,LA,MC,LL	2	GA	250mL	<6°C; HCI	GW	AK102/103		14 Day	DRO/RRO
ADOT MAH	22ADOT-MAH04 22ADOT-MAH04	SGS SGS	1225314 1225314	22MAH-MW7b-GW 22MAH-MW7b-GW	MW7b MW7b	8/30/2022 8/30/2022	1245 1245	KS,AJ,LA,MC,LL KS,AJ,LA,MC,LL	2	GA Poly	250mL 125mL	<6°C HNO3	GW GW	SW8270 SIM SW6020A		14 Day 14 Day	PAHs Lead
ADOT MAH	22ADOT-MAH04 22ADOT-MAH04	SGS	1225314	22MAH-MW8b-GW	MW8b	8/31/2022	1014	KS,AJ,LA,MC,LL KS,AJ,LA,MC,LL	9	VOA	40mL	<6°C; HCl	GW	AK101, SW8260, SW8260 SIM		14 Day	GRO, VOCs, EDB
ADOT MAH	22ADOT-MAH04	SGS	1225314	22MAH-MW8b-GW	MW8b	8/31/2022	1014	KS,AJ,LA,MC,LL	2	GA	250mL	<6°C; HCI	GW	AK102/103		14 Day	DRO/RRO
ADOT MAH ADOT MAH	22ADOT-MAH04 22ADOT-MAH04	SGS SGS	1225314 1225314	22MAH-MW8b-GW 22MAH-MW8b-GW	MW8b MW8b	8/31/2022 8/31/2022	1014 1014	KS,AJ,LA,MC,LL KS.AJ,LA.MC,LL	<u>2</u> 1	GA Poly	250mL 125mL	<6°C HNO3	GW GW	SW8270 SIM SW6020A		14 Day 14 Day	PAHs Lead
ADOT MAH	22ADOT-MAH04 22ADOT-MAH04	SGS	1225314	22MAH-MW8b-GWA	MW8b	8/31/2022	1014	KS,AJ,LA,MC,LL KS,AJ,LA,MC,LL	9	VOA	40mL	<6°C; HCl	GW	AK101, SW8260, SW8260 SIM	Dup	14 Day	GRO, VOCs, EDB
ADOT MAH	22ADOT-MAH04	SGS	1225314	22MAH-MW8b-GWA	MW8b	8/31/2022	1014	KS,AJ,LA,MC,LL	2	GA	250mL	<6°C; HCI	GW	AK102/103	Dup	14 Day	DRO/RRO
ADOT MAH ADOT MAH	22ADOT-MAH04 22ADOT-MAH04	SGS SGS	1225314 1225314	22MAH-MW8b-GWA 22MAH-MW8b-GWA	MW8b MW8b	8/31/2022 8/31/2022	1014 1014	KS,AJ,LA,MC,LL KS,AJ,LA,MC,LL	2 1	GA Poly	250mL 125mL	<6°C HNO3	GW GW	SW8270 SIM SW6020A	Dup Dup	14 Day 14 Day	PAHs Lead
ADOT MAH	22ADOT-MAH04 22ADOT-MAH04	SGS	1225314	22MAH-MW12-GW	MW12	8/31/2022	1200	KS,AJ,LA,MC,LL	9	VOA	40mL	<6°C; HCI	GW	AK101, SW8260, SW8260 SIM	Бир	14 Day	GRO, VOCs, EDB

2022 MarkAir Warehouse Groundwater Monitoring – Fairbanks International Airport, Fairbanks, Alaska **Table F.1 Sample Summary**

RODT MAN 22ADOT-MANPIQ SIS 122S14 22MAN-MAY12-GW MAY12 851/02/2 1200 R.S.A.I.A.M.C.L.L 2 GA 250mL 40°C GW SW8270 GM 14 Day 14 Day 12 Day	Site	CoC Number	Laboratory	Laboratory	Sample ID	Location ID	Collection	Collection	Sampler	Quantity	Container	Container	Preservation	Matrix	Analytical	QC	TAT	Notes
ADDT MAH 22ADDT-MAHIGE SGS 122514 22MAH-MWY-2-GW MWY2 83172022 1200 KS_ALLA, MCLL 2 GA 250mL 46°C GW SWR79 SM 14 Day ADDT MAH 22ADDT-MAHIGE SGS 122514 22MAH-MWY-2-GW MWY3 83172022 1300 KS_ALLA, MCLL 1 Pay 125mL MNO3 GW SWR7900 SM 14 Day GR ADDT MAH 22ADDT-MAHIGE SGS 122514 22MAH-MWS-GW MWY3 83172022 1437 KS_ALLA, MCLL 1 Pay CFC HCl GW AK(1), SWR200, SWR700 SM 14 Day GR ADDT MAH 22ADDT-MAHIGE SGS 122514 22MAH-MWS-GW MWY3 83172022 1437 KS_ALLA, MCLL 1 Pay CFC HCl GW AK(1), SWR200, SWR700 SM 14 Day GR ADDT MAH 22ADDT-MAHIGE SGS 122514 22MAH-MWS-GW MWY3 83172022 1437 KS_ALLA, MCLL 1 Pay 125mL MWY AK(1), SWR200, SWR700 SM 14 Day GR ADDT MAH 22ADDT-MAHIGE SGS 122514 22MAH-MWS-GW MWY3 83172022 1437 KS_ALLA, MCLL 1 Pay 125mL HNO3 GW ASSURANCE 14 Day GR ADDT MAH 22ADDT-MAHIGE SGS 122514 22MAH-MWS-GW MWY3 83172022 1447 KS_ALLA, MCLL 1 Pay 125mL HNO3 GW ASSURANCE 14 Day GR ADDT MAH 22ADDT-MAHIGE SGS 1226337 22MAH-DRI DAY 80172022 1440 AL 1 9 VOA 40mL 46°C, HCl WW AK(1), SWR200, SWR200 SM 14 Day GR ADDT MAH 22ADDT-MAHIGE SGS 1226337 22MAH-DRI DAY MW 80172022 1440 AL 1 9 VOA 40mL 46°C, HCl WW AK(10, SWR200, SWR200 SM 14 Day GR ADDT MAH 22ADDT-MAHIGE SGS 1226337 22MAH-DRI DAY MW 80172022 1440 AL 1 9 VOA 40mL 46°C, HCl WW AK(10, SWR200, SWR200 SM 14 Day GR ADDT MAH 22ADDT-MAHIGE SGS 1226337 22MAH-DRI DAY MW 80172022 1440 AL 1 9 VOA 40mL 46°C, HCl WW AK(10, SWR200, SWR200 SM 14 Day GR ADDT MAH 22ADDT-MAHIGE SGS 1226337 22MAH-DRI DAY MW 80172022 1440 AL 1 9 VOA 40mL 46°C, HCl WW AK(10, SWR200, SWR200 SM 14 Day GR ADDT MAH 22ADDT-MAHIGE SGS 1226337 22MAH-DRI DAY MW 80172022 1400 AL 1 9 VOA 40mL 46°C, HCl WW			,	SDG			Date	Time		,	Туре	Volume			Method	Type	(days)	
ADDT IMM	ADOT MAH	22ADOT-MAH04	SGS	1225314	22MAH-MW12-GW	MW12	8/31/2022	1200	KS,AJ,LA,MC,LL	2	GA	250mL	<6°C; HCI	GW	AK102/103		14 Day	DRO/RRO
ADOT MAH 22ADOT-MANING SGS 1225314 2248AH-MWS-0W MW-3b 831/2022 1437 KSAJLA,MC,LLL 9	ADOT MAH	22ADOT-MAH04	SGS	1225314	22MAH-MW12-GW	MW12	8/31/2022	1200	KS,AJ,LA,MC,LL	2	GA	250mL	<6°C	GW	SW8270 SIM		14 Day	PAHs
ADOT MAH 22ADOT-MAHON SGS 1225314 22MAH-MM73-GW MM73b 83170222 1437 KS_ALLAMCILL 2 GA 250mL e°C'C GW SW8279 SM 14 Day ADOT MAH 22ADOT-MAHON SGS 1225314 22MAH-MM73-GW MM73b 83170222 1437 KS_ALLAMCILL 1 Pely 125mL HNG3 GW SW8229 SM 14 Day ADOT MAH 22ADOT-MAHON SGS 1225314 22MAH-MM73-GW MM73b 83170222 1437 KS_ALLAMCILL 1 Pely 125mL HNG3 GW SW8229 SM 14 Day ADOT MAH 22ADOT-MAHON SGS 1225314 22MAH-MM73-GW MM73b 83170222 1437 KS_ALLAMCILL 1 Pely 125mL HNG3 GW KSCALAMCILL 1 Pely SCR CONTROL C	ADOT MAH	22ADOT-MAH04	SGS	1225314	22MAH-MW12-GW	MW12	8/31/2022	1200	KS,AJ,LA,MC,LL	1	Poly	125mL	HNO3	GW	SW6020A		14 Day	Lead
ADOT MAH 22ADOT-MAH-04 SGS 122S314 22MAH-MW3-B-W MW39 831/2022 1437 KS.A.J.L.A.M.C.L.L 2 GA 250mL <6°C GW SW8270 SM 14 Day ADOT MAH 22ADOT-MAH-04 SGS 122S314 22MAH-MW3-B-W MW39 831/2022 1437 KS.A.J.L.A.M.C.L.L 1 Poly 12EmL HNO3 GW SW8200 SM 14 Day ADOT MAH 22ADOT-MAH-04 SGS 122S314 22MAH-TB02W 780/2022 0800 KS.A.J.L.A.K.J.L.L 0 VOA 40mL <6°C; HCI GW AK101; SW8205, SW8200 SIM TB 14 Day GR ADOT MAH 22ADOT-MAH-05 SGS 122S37 22MAH-DR01-WW DR01 1013/2022 1010 AJ 2 GA 250mL <6°C; HCI WW AK102/103 A 14 Day GR ADOT MAH 22ADOT-MAH-05 SGS 122S337 22MAH-DR01-WW DR01 1013/2022 1010 AJ 2 GA 250mL <6°C; HCI WW AK102/103 A 14 Day GR ADOT MAH 22ADOT-MAH-05 SGS 122S337 22MAH-DR01-WW DR01 1013/2022 1010 AJ 1 HDPE 12EmL SGC WW SW8000A A 14 Day ADOT MAH 22ADOT-MAH-05 SGS 122S337 22MAH-DR01-WW DR01 1013/2022 1010 AJ 1 HDPE 12EmL SGC WW SW8000A A 14 Day ADOT MAH 22ADOT-MAH-05 SGS 122S337 22MAH-DR01-WW DR01 1013/2022 1010 AJ 2 Poly 12EmL SGC WW SFA,57.1 14 Day GR ADOT MAH 22ADOT-MAH-05 SGS 122S337 22MAH-DR01-WW DR01 1013/2022 1100 AJ 2 Poly 12EmL SGC WW SFA,57.1 14 Day GR ADOT MAH 22ADOT-MAH-05 SGS 122S337 22MAH-DR01-WW DR02 1013/2022 1150 AJ 2 GA 250mL SGC WW SW8000A A 14 Day GR ADOT MAH 22ADOT-MAH-05 SGS 122S337 22MAH-DR01-WW DR02 1013/2022 1150 AJ 2 GA 250mL SGC WW SW8000A A 14 Day GR ADOT MAH 22ADOT-MAH-05 SGS 122S337 22MAH-DR01-WW DR02 1013/2022 1150 AJ 2 GA 250mL SGC WW SW8000A A 14 Day GR ADOT MAH 22ADOT-MAH-05 SGS 122S337 22MAH-DR01-WW DR02 1013/2022 1150 AJ 2 GA 250mL SGC WW SW8000A A 14 Day GR ADOT MAH 22ADOT-MAH-05 SGS 122S337 22MAH-DR01-WW DR02 1013/2022 1150 AJ 2 GA 250mL	ADOT MAH	22ADOT-MAH04	SGS	1225314	22MAH-MW3b-GW	MW3b	8/31/2022	1437	KS,AJ,LA,MC,LL	9	VOA	40mL	<6°C; HCI	GW	AK101, SW8260, SW8260 SIM		14 Day	GRO, VOCs, EDB
ADOT MAH ZADOT MAH94 SGS 1228314 Z2MAH-M939-W M939 B31/2022 1437 RS_ALLANGLU 1 Poly 126mL FINO3 GW SW0620A 14 Day GR ADOT MAH Z2ADOT MAH94 SGS 1228337 Z2MAH-DR01-WW DR01 101/32022 1040 AJ 9 VOA 46mL 46°C; HCI WW AK101, SW8206, SW8200 SIM 14 Day GR ADOT MAH Z2ADOT MAH95 SGS 1228337 Z2MAH-DR01-WW DR01 101/32022 1040 AJ 2 GA 250mL 46°C; HCI WW AK102, SW8200 SIM 14 Day GR ADOT MAH Z2ADOT MAH95 SGS 1228337 Z2MAH-DR01-WW DR01 101/32022 1040 AJ 2 GA 250mL 46°C; HCI WW AK102, SW8200 SIM 14 Day GR ADOT MAH Z2ADOT MAH95 SGS 1228337 Z2MAH-DR01-WW DR01 101/32022 1040 AJ 2 GA 250mL 46°C; HCI WW SW8270 SIM 14 Day GR ADOT MAH Z2ADOT MAH95 SGS 1228337 Z2MAH-DR01-WW DR01 101/32022 1040 AJ 1 HDPE 125mL HNO3 WW SW8270 SIM 14 Day CR ADOT MAH Z2ADOT MAH95 SGS 1228337 Z2MAH-DR01-WW DR01 101/32022 1040 AJ 2 GA 250mL 46°C; HCI WW AK102, SW8270 SIM 14 Day CR ADOT MAH Z2ADOT MAH95 SGS 1228337 Z2MAH-DR01-WW DR01 101/32022 1040 AJ 2 GA 250mL 46°C; HCI WW AK102, SW8270 SIM 14 Day CR ADOT MAH Z2ADOT MAH95 SGS 1228337 Z2MAH-DR01-WW DR01 101/32022 1040 AJ 2 GA 250mL 46°C; HCI WW AK102, SW8270 SIM 14 Day CR ADOT MAH Z2ADOT MAH95 SGS 1228337 Z2MAH-DR01-WW DR02 101/32022 1150 AJ 2 GA 250mL 46°C HCI WW SW8270 SIM 14 Day CR ADOT MAH Z2ADOT MAH96 SGS 1228337 Z2MAH-DR02-WW DR02 101/32022 1150 AJ 2 GA 250mL 46°C HCI WW SW8270 SIM 14 Day CR ADOT MAH Z2ADOT MAH96 SGS 1228337 Z2MAH-DR02-WW DR02 101/32022 1150 AJ 2 GA 250mL 46°C HCI WW AK102, SW8280 SIM 14 Day CR ADOT MAH Z2ADOT MAH96 SGS 1228337 Z2MAH-DR03-WW DR02 101/32022 1230 AJ 2 GA 250mL 46°C HCI WW AK102, SW8280 SIM 14 Day CR AD	ADOT MAH	22ADOT-MAH04	SGS	1225314	22MAH-MW3b-GW	MW3b	8/31/2022	1437	KS,AJ,LA,MC,LL	2	GA	250mL	<6°C; HCI	GW	AK102/103		14 Day	DRO/RRO
ADOT MAH 22ADOT-MAH0H SGS 122331	ADOT MAH	22ADOT-MAH04	SGS	1225314	22MAH-MW3b-GW	MW3b	8/31/2022	1437	KS,AJ,LA,MC,LL	2	GA	250mL	<6°C	GW	SW8270 SIM		14 Day	PAHs
ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR01-WW DR01 10/13/2022 1040 AJ 2 GA 250mL 45°C; HCI WW AK102/103 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR01-WW DR01 10/13/2022 1040 AJ 2 GA 250mL 45°C; HCI WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR01-WW DR01 10/13/2022 1040 AJ 2 GA 250mL 45°C; HCI WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR01-WW DR01 10/13/2022 1040 AJ 1 HDPE 125mL HN03 WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR01-WW DR01 10/13/2022 1040 AJ 2 Poly 125mL 45°C; HCI WW AK102/103 ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 9 VOA 40mL 45°C; HCI WW AK102/103 14 Day GR ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 2 GA 250mL 45°C; HCI WW AK102/103 14 Day GR ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 2 GA 250mL 45°C; HCI WW AK102/103 14 Day GR ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 2 GA 250mL 45°C; HCI WW AK102/103 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 2 GA 250mL 45°C; HCI WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 2 Poly 125mL 45°C; HCI WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR02-WW DR02 10/13/2022 1300 AJ 2 Poly 125mL 45°C; HCI WW AS102/103 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1300 AJ 2 GA 250mL 45°C; HCI WW AS102/103 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1300 AJ 2 GA 250mL 45°C; HCI WW AS102/103 14 Day	ADOT MAH	22ADOT-MAH04	SGS	1225314	22MAH-MW3b-GW	MW3b	8/31/2022	1437	KS,AJ,LA,MC,LL	1	Poly	125mL	HNO3	GW	SW6020A		14 Day	Lead
ADOT MAH 22ADOT MAH05 SGS 1226337 22MAH-DR01-WW DR01 1013/2022 1040 AJ 2 GA 250mL 46°C; HCI WW AK102/103 14 Day ADOT MAH 22ADOT MAH05 SGS 1226337 22MAH-DR01-WW DR01 1013/2022 1040 AJ 1 HDPE 125mL HNO3 WW SW8020A 14 Day ADOT MAH 22ADOT MAH05 SGS 1226337 22MAH-DR01-WW DR01 1013/2022 1040 AJ 2 Poly 125mL 46°C WW SW8020A 14 Day ADOT MAH 22ADOT MAH05 SGS 1226337 22MAH-DR01-WW DR02 1013/2022 1040 AJ 2 Poly 125mL 46°C WW SW8020A 14 Day ADOT MAH 22ADOT MAH05 SGS 1226337 22MAH-DR02-WW DR02 1013/2022 1150 AJ 9 VOA 40mL 46°C; HCI WW AK101, SW8200, SW8200 SIM 14 Day ADOT MAH 22ADOT MAH05 SGS 1226337 22MAH-DR02-WW DR02 1013/2022 1150 AJ 2 GA 250mL 46°C WW SW8270 SIM 14 Day ADOT MAH 22ADOT MAH05 SGS 1226337 22MAH-DR02-WW DR02 1013/2022 1150 AJ 2 GA 250mL 46°C WW SW8270 SIM 14 Day ADOT MAH 22ADOT MAH05 SGS 1226337 22MAH-DR02-WW DR02 1013/2022 1150 AJ 1 HDPE 125mL HNO3 WW SW8020A 14 Day ADOT MAH 22ADOT MAH05 SGS 1226337 22MAH-DR02-WW DR02 1013/2022 1150 AJ 1 HDPE 125mL HNO3 WW SW8020A 14 Day ADOT MAH 22ADOT MAH05 SGS 1226337 22MAH-DR02-WW DR02 1013/2022 1150 AJ 1 HDPE 125mL HNO3 WW SW8020A 14 Day ADOT MAH 22ADOT MAH05 SGS 1226337 22MAH-DR02-WW DR02 1013/2022 1230 AJ 1 HDPE 125mL HNO3 WW SW8020A 14 Day ADOT MAH 22ADOT MAH05 SGS 1226337 22MAH-DR02-WW DR02 1013/2022 1230 AJ 2 Poly 125mL 46°C WW SW820 SIM 14 Day GR ADOT MAH 22ADOT MAH05 SGS 1226337 22MAH-DR02-WW DR03 1013/2022 1230 AJ 2 Poly 125mL 46°C WW SW820 SIM 14 Day GR ADOT MAH 22ADOT MAH05 SGS 1226337 22MAH-DR02-WW DR03 1013/2022 1230 AJ 2 Poly 125mL 46°C WW SW820 SIM 14 Day GR ADOT MAH 22ADOT MAH05 SGS 1226337 22MAH-D	ADOT MAH	22ADOT-MAH04	SGS	1225314	22MAH-TB02W	TB02W	8/30/2022	0800	KS,AJ,LA,KJ,LL	9	VOA	40mL	<6°C; HCI	GW	AK101, SW8260, SW8260 SIM	TB	14 Day	GRO, VOCs, EDB
ADOT MAH 22ADOT-MAH-105 SGS 1226337 22MAH-DR01-WW DR01 101/3/2022 1040 A.J 1 HDPE 125mL HNO3 WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH-105 SGS 1226337 22MAH-DR01-WW DR01 101/3/2022 1140 A.J 1 HDPE 125mL Se [*] C WW EPA 537.1 14 Day ADOT MAH 22ADOT-MAH-105 SGS 1226337 22MAH-DR01-WW DR01 101/3/2022 1150 A.J 9 VOA 40mL Se [*] C, HCI WW AK101, SW8260, SW8260 SIM 14 Day ADOT MAH 22ADOT-MAH-105 SGS 1226337 22MAH-DR02-WW DR02 101/3/2022 1150 A.J 2 GA 250mL Se [*] C, HCI WW AK102/103 14 Day ADOT MAH 22ADOT-MAH-105 SGS 1226337 22MAH-DR02-WW DR02 101/3/2022 1150 A.J 2 GA 250mL Se [*] C, HCI WW AK102/103 14 Day ADOT MAH 22ADOT-MAH-105 SGS 1226337 22MAH-DR02-WW DR02 101/3/2022 1150 A.J 2 GA 250mL Se [*] C, HCI WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH-105 SGS 1226337 22MAH-DR02-WW DR02 101/3/2022 1150 A.J 2 Poly 125mL HNO3 WW SW8220 SIM 14 Day ADOT MAH 22ADOT-MAH-105 SGS 1226337 22MAH-DR02-WW DR02 101/3/2022 1150 A.J 2 Poly 125mL HNO3 WW SW8020A 14 Day ADOT MAH 22ADOT-MAH-105 SGS 1226337 22MAH-DR03-WW DR03 101/3/2022 1150 A.J 2 Poly 125mL HNO3 WW SPA503-L HDAY ADOT MAH 22ADOT-MAH-105 SGS 1226337 22MAH-DR03-WW DR03 101/3/2022 1730 A.J 2 GA 250mL Se [*] C, HCI WW AK101, SW8260, SW8260 SIM 14 Day ADOT MAH 22ADOT-MAH-105 SGS 1226337 22MAH-DR03-WW DR03 101/3/2022 1730 A.J 2 GA 250mL Se [*] C, HCI WW AW101, SW8260, SW8260 SIM 14 Day ADOT MAH 22ADOT-MAH-105 SGS 1226337 22MAH-DR03-WW DR03 101/3/2022 1730 A.J 2 GA 250mL Se [*] C, WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH-105 SGS 1226337 22MAH-DR03-WW DR03 101/3/2022 1730 A.J 2 GA 250mL Se [*] C, WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH-105 SGS 1226337 22MAH-DR03-WW DR03 101/3/2022 1	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR01-WW	DR01	10/13/2022	1040	AJ	9	VOA	40mL	<6°C; HCI	WW	AK101, SW8260, SW8260 SIM		14 Day	GRO, VOCs, EDB
ADOT MAH 22ADOT-MAH05 SGS 1228337 22MAH-DR01-WW DR01 10/13/2022 1140 AJ 1 HDPE 125mL HN03 WW SW6020A 114 Day 2ADOT-MAH05 SGS 1228337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 9 VOA 40mL 46°C. HCI WW AK101, SW8260. SW8260 SIM 14 Day 2ADOT-MAH05 SGS 1228337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 9 VOA 40mL 46°C. HCI WW AK101, SW8260. SW8260 SIM 14 Day 2ADOT-MAH05 SGS 1228337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 9 VOA 40mL 46°C. HCI WW AK102/103 14 Day 2ADOT-MAH05 SGS 1228337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 2 GA 250mL 46°C. HCI WW SW8270 SIM 41 Day 2ADOT-MAH05 SGS 128337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 2 GA 250mL 46°C. HCI WW SW8270 SIM 41 Day 2ADOT-MAH05 SGS 128337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 1 HDPE 125mL HN03 WW SW8270 SIM 14 Day 2ADOT-MAH05 SGS 128337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 1 HDPE 125mL HN03 WW SW8270 SIM 14 Day 2ADOT-MAH05 SGS 128337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 2 Poly 125mL 46°C. HCI WW AK102/103 HDPA 2ADOT-MAH05 SGS 128337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 2 Poly 125mL 46°C. HCI WW AK102/103 HDPA 2ADOT-MAH05 SGS 128337 22MAH-DR02-WW DR02 10/13/2022 1230 AJ 2 Poly 125mL 46°C. HCI WW AK102/103 HDPA 2ADOT-MAH05 SGS 128337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 2 GA 250mL 46°C. HCI WW AK102/103 HDPA 2ADOT-MAH05 SGS 128337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 2 GA 250mL 46°C. HCI WW SW8260.SW8260 SIM 14 Day 2ADOT-MAH05 SGS 128337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 2 GA 250mL 46°C. HCI WW SW8260.SW8260 SIM 14 Day 2ADOT-MAH05 SGS 128337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 1 HDPE 125mL 46°C WW SW8270 SIM 14 Day 2ADOT-MAH05 SGS 128337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 1 HDPE 125mL 46°C WW SW8270 SIM 14 Day 2ADOT-MAH05 SGS 128337 22MAH-DR03-WW DR03 10/13/2022 1300 AJ 1 HDPE 125mL 46°C WW SW8270 SIM 14 Day 2ADOT-MAH05 SGS 1228337 22MAH-DR03-WW DR03 10/13/2022 1300 AJ 1 HDPE 125mL 46°C WW SW8270 SIM 14 Day 3ADOT-MAH05 SGS 1228337 22MAH-DR03-WW DR04 10/13/2022 1300 AJ 1 HDPE 125mL 46°C WW SW8270 SIM 14 Day 3ADOT-MAH05 SGS 1228337 22MAH-DR04-WW DR04 10/13/2022 1300 A	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR01-WW	DR01	10/13/2022	1040	AJ	2	GA	250mL	<6°C; HCI	WW	AK102/103		14 Day	DRO/RRO
ADOT MAH 22ADOT-MAH05 SGS 12E8337 22MAH-DR02-WW DR01 10/13/2022 1940 A.J 2 Pely 125mL <6°C WW EPA 537.1 14 Day R. ADOT MAH 22ADOT-MAH05 SGS 12E8337 22MAH-DR02-WW DR02 10/13/2022 1150 A.J 2 GA 250mL <6°C, HCI WW AK101, SW8260, SIM 14 Day R. ADOT MAH 22ADOT-MAH05 SGS 12E8337 22MAH-DR02-WW DR02 10/13/2022 1150 A.J 2 GA 250mL <6°C, HCI WW AK102/103 MA Day R. ADOT MAH 22ADOT-MAH05 SGS 12E8337 22MAH-DR02-WW DR02 10/13/2022 1150 A.J 2 GA 250mL <6°C, HCI WW SW8270, SIM MA Day MA ADOT MAH 22ADOT-MAH05 SGS 12E8337 22MAH-DR02-WW DR02 10/13/2022 1150 A.J 2 GA 250mL <6°C WW SW8270, SIM MA Day MA ADOT MAH 22ADOT-MAH05 SGS 12E8337 22MAH-DR02-WW DR02 10/13/2022 1150 A.J 2 Pely 125mL HNO3 WW SW8270, SIM MA Day MA ADOT MAH 22ADOT-MAH05 SGS 12E8337 22MAH-DR02-WW DR02 10/13/2022 1150 A.J 2 Pely 125mL <6°C WW EPA 65371 MA Day GR ADOT MAH 22ADOT-MAH05 SGS 12E8337 22MAH-DR03-WW DR03 10/13/2022 1230 A.J 2 GA 250mL <6°C, HCI WW AK101, SW8260, SW8260 SIM MA Day GR ADOT MAH 22ADOT-MAH05 SGS 12E8337 22MAH-DR03-WW DR03 10/13/2022 1230 A.J 2 GA 250mL <6°C, HCI WW AK102/103 MA Day GR ADOT MAH 22ADOT-MAH05 SGS 12E8337 22MAH-DR03-WW DR03 10/13/2022 1230 A.J 2 GA 250mL <6°C, HCI WW AK102/103 MA Day GR ADOT MAH 22ADOT-MAH05 SGS 12E8337 22MAH-DR03-WW DR03 10/13/2022 1230 A.J 2 GA 250mL <6°C, HCI WW AK102/103 MA Day GR ADOT MAH 22ADOT-MAH05 SGS 12E8337 22MAH-DR03-WW DR03 10/13/2022 1230 A.J 2 GA 250mL <6°C, HCI WW AK102/103 MA Day GR ADOT MAH 22ADOT-MAH05 SGS 12E8337 22MAH-DR03-WW DR03 10/13/2022 1300 A.J 2 GA 250mL <6°C, HCI WW AK102/103 MA Day GR ADOT MAH 22ADOT-MAH05 SGS 12E8337 22MAH-	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR01-WW	DR01	10/13/2022	1040	AJ	2	GA	250mL	<6°C	WW	SW8270 SIM		14 Day	PAHs
ADDT MAH 22ADDT-MAH0S SGS 1228337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 9 VOA 40mL \$6°C; HCI WW AK101, SW8260, SW8260 SIM 14 Day GR ADDT MAH 22ADDT-MAH0S SGS 1228337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 2 GA 250mL \$6°C WW SW8270 SIM 14 Day GR ADDT MAH 22ADDT-MAH0S SGS 1228337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 1 HDPE 125mL HNO3 WW SW8270 SIM 14 Day CR ADDT MAH 22ADDT-MAH0S SGS 1228337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 1 HDPE 125mL \$6°C WW SW8270 SIM 14 Day CR ADDT MAH 22ADDT-MAH0S SGS 1228337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 2 Poly 125mL \$6°C WW SW8270 SIM 14 Day CR ADDT MAH 22ADDT-MAH0S SGS 1228337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 9 VOA 40mL \$6°C; HCI WW AK101, SW8260 SIM 14 Day CR ADDT MAH 22ADDT-MAH0S SGS 1228337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 2 GA 250mL \$6°C; HCI WW AK102, FOS ADDT MAH 22ADDT-MAH0S SGS 1228337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 2 GA 250mL \$6°C; HCI WW AK102, FOS ADDT MAH 22ADDT-MAH0S SGS 1228337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 2 GA 250mL \$6°C; HCI WW SW8200A 14 Day CR ADDT MAH 22ADDT-MAH0S SGS 1228337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 2 GA 250mL \$6°C; HCI WW SW8200A 14 Day CR ADDT MAH 22ADDT-MAH0S SGS 1228337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 2 Foly ADDT MAH0S SGS 1228337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 2 Foly ADDT MAH 22ADDT-MAH0S SGS 1228337 22MAH-DR03-WW DR03 10/13/2022 1300 AJ 2 Foly ADDT MAH 22ADDT-MAH0S SGS 1228337 22MAH-DR03-WW DR03 10/13/2022 1300 AJ 2 Foly ADDT MAH 22ADDT-MAH0S SGS 1228337 22MAH-DR03-WW DR04 10/13/2022 1300 AJ 2 Foly ADDT MAH 22ADDT-MAH0S SGS 1228337 22MAH-DR03-WW DR04 10/	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR01-WW	DR01	10/13/2022	1040	AJ	1	HDPE	125mL	HNO3	WW	SW6020A		14 Day	Lead
ADDT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR02-WW DR02 10/13/2022 1150 A.J 2 GA 250mL 6°C; HCI WW AK10/2103 M	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR01-WW	DR01	10/13/2022	1040	AJ	2	Poly	125mL	<6°C	WW	EPA 537.1		14 Day	PFAS
ADOT MAH 22ADOT-MAH05 SGS 128337 22MAH-DR02-WW DR02 10/13/2022 1150 A.J 2 GA 250mL 46°C WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 128337 22MAH-DR02-WW DR02 10/13/2022 1150 A.J 1 HDPE 125mL HN03 WW SW820 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 128337 22MAH-DR03-WW DR02 10/13/2022 1150 A.J 2 Poly 125mL 46°C WW EPA 537.1 14 Day ADOT MAH 22ADOT-MAH05 SGS 128337 22MAH-DR03-WW DR03 10/13/2022 1230 A.J 9 VOA 40mL 46°C; HCI WW AK101, SW8260 SIM 14 Day GR ADOT MAH 22ADOT-MAH05 SGS 128337 22MAH-DR03-WW DR03 10/13/2022 1230 A.J 2 GA 250mL 46°C WW SW8270 SIM 14 Day GR ADOT MAH 22ADOT-MAH05 SGS 128337 22MAH-DR03-WW DR03 10/13/2022 1230 A.J 2 GA 250mL 46°C WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 128337 22MAH-DR03-WW DR03 10/13/2022 1230 A.J 2 GA 250mL 46°C WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 128337 22MAH-DR03-WW DR03 10/13/2022 1230 A.J 1 HDPE 125mL HN03 WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 128337 22MAH-DR03-WW DR03 10/13/2022 1230 A.J 1 HDPE 125mL HN03 WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 128337 22MAH-DR03-WW DR03 10/13/2022 1230 A.J 2 Poly 125mL 46°C WW EPA 537.1 14 Day ADOT MAH 22ADOT-MAH05 SGS 128337 22MAH-DR03-WW DR04 10/13/2022 1300 A.J 2 Poly 125mL 46°C HW AK101, SW8260 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 128337 22MAH-DR03-WW DR04 10/13/2022 1300 A.J 2 GA 250mL 46°C; HCI WW AK101, SW8260 SIM 14 Day GR ADOT MAH 22ADOT-MAH05 SGS 128337 22MAH-DR04-WW DR04 10/13/2022 1300 A.J 2 GA 250mL 46°C; HCI WW AK101, SW8260 SIM 14 Day GR ADOT MAH 22ADOT-MAH05 SGS 128337 22MAH-DR04-WW DR04 10/13/2022 1300 A.J 2 GA 250mL 46°C; HCI WW AK101, SW8260 S	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR02-WW	DR02	10/13/2022	1150	AJ	9	VOA	40mL	<6°C; HCI	WW	AK101, SW8260, SW8260 SIM		14 Day	GRO, VOCs, EDB
ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR02-WW DR02 10/13/2022 1150 AJ 1 HDPE 125mL HNO3 WW SW6020A 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1150 AJ 2 Poly 125mL 46°C WW AK101, SW8620 SMR 14 Day GR ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 9 VOA 40mL 46°C; HCI WW AK101, SW8620 SMR 14 Day GR ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 2 GA 250mL 46°C; HCI WW AK102/103 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 2 GA 250mL 46°C; HCI WW AK102/103 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 1 HDPE 125mL HNO3 WW SW6020A 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 1 HDPE 125mL HNO3 WW SW6020A 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 2 Poly 125mL 46°C WW AK101, SW86020A 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 Poly 125mL 46°C WW AK101, SW86020A 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL 46°C; HCI WW AK101, SW86020A 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL 46°C; HCI WW AK101, SW86020A 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL 46°C; HCI WW AK101, SW86020A 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL 46°C; HCI WW AK101, SW86020A 14 Day ADOT MAH 22ADOT-MAH06 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 Poly 125mL 46°C; HC	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR02-WW	DR02	10/13/2022	1150	AJ	2	GA	250mL	<6°C; HCI	WW	AK102/103		14 Day	DRO/RRO
ADDT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR02 10/13/2022 1230 AJ 9 VOA 40mL <6°C HC WW AK101, SW8260, SW8260 SIM 14 Day GR ADDT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 9 VOA 40mL <6°C HC WW AK101, SW8260, SW8260 SIM 14 Day GR ADDT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 2 GA 250mL <6°C HC WW SW8270 SIM 14 Day GR ADDT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 2 GA 250mL <6°C WW SW8270 SIM 14 Day GR ADDT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 1 HDPE 125mL HN03 WW SW87020 M 14 Day ADDT MAH 22ADOT-MAH06 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 2 Poly 125mL <6°C WW SW87020 M 14 Day ADDT MAH 22ADOT-MAH06 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 2 Poly 125mL <6°C WW EPA 537.1 14 Day GR ADDT MAH 22ADOT-MAH06 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 Poly 125mL <6°C WW KINSTON KINSTON KINSTON MAK101, SW8260, SW8260 SIM 14 Day GR ADDT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL <6°C HC WW AK101, SW8260, SW8260 SIM 14 Day GR ADDT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL <6°C WW SW8260, SW8260 SIM 14 Day GR ADDT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL <6°C WW SW8260, SW8260 SIM 14 Day GR ADDT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL <6°C WW SW8260, SW8260 SIM 14 Day GR ADDT MAH 22ADOT-MAH06 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 Poly 125mL <6°C SO AK101/SW8260, SW8260 SIM 14 Day GR	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR02-WW	DR02	10/13/2022	1150	AJ	2	GA	250mL	<6°C	WW	SW8270 SIM		14 Day	PAHs
ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 9 VOA 40mL <6°C; HCI WW AK101, SW8260, SW8260 SIM 14 Day GR ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 2 GA 250mL <6°C; HCI WW AK102/103 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 2 GA 250mL <6°C; HCI WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 1 HDPE 125mL HNO3 WW SW6020A 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 1 HDPE 125mL HNO3 WW SW6020A 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 Poly 125mL <6°C; HCI WW AK101, SW8260, SW8260 SIM 14 Day GR ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL <6°C; HCI WW AK101, SW8260, SW8260 SIM 14 Day GR ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL <6°C; HCI WW AK102/103 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL <6°C; HCI WW AK102/103 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL <6°C; HCI WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL <6°C; HCI WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 Poly 125mL <6°C WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 Poly 125mL <6°C WW SW8270 SIM 14 Day GR ADOT MAH 22ADOT-MAH06 SGS 1226313 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 Poly	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR02-WW	DR02	10/13/2022	1150	AJ	1	HDPE	125mL	HNO3	WW	SW6020A		14 Day	Lead
ADOT MAH	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR02-WW	DR02	10/13/2022	1150	AJ	2	Poly	125mL	<6°C	WW	EPA 537.1		14 Day	PFAS
ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR03-WW DR03 10/13/2022 1230 AJ 2 GA 250mL <6°C WW SW8270 SIM 14 Day	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR03-WW	DR03	10/13/2022	1230	AJ	9	VOA	40mL	<6°C; HCI	WW	AK101, SW8260, SW8260 SIM		14 Day	GRO, VOCs, EDB
ADOT MAH	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR03-WW	DR03	10/13/2022	1230	AJ	2	GA	250mL	<6°C; HCI	WW	AK102/103		14 Day	DRO/RRO
ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 9 VOA 40mL <6°C, HCI WW AK101, SW8260, SW8260 SIM 14 Day GR ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 9 VOA 40mL <6°C, HCI WW AK101, SW8260, SW8260 SIM 14 Day GR ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL <6°C, HCI WW SK102/103 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL <6°C WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 1 HDPE 125mL HN03 WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 1 HDPE 125mL HN03 WW SW8020A 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 Poly 125mL <6°C WW EPA 537.1 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 Poly 125mL <6°C WW EPA 537.1 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 9 VOA 40mL <6°C, HCI WW AK101, SW8260, SW8260 SIM TB 14 Day GR ADOT MAH 22ADOT-MAH06 SGS 1226313 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 GA 4 oz <6°C, HCI WW AK101, SW8260, SW8260 SIM TB 14 Day GR ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 GA 8 oz <6°C, SO K102/103, SW8270 SIM, SW6020 14 Day GR ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 Poly 4 oz <6°C SO K102/103, SW8270 SIM, SW6020 14 Day GR ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 Poly 4 oz <6°C SO K102/103, SW8270 SIM, SW6020 14 Day GR ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 Poly 4 oz <6°C SO K102/103, SW8270 SIM, SW6020 14 Day GR ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 Poly 4 oz <6°C SO K102/103, SW8270 SIM, SW6020 144 Day GR ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 Poly 4 oz <6°C SO K102/103, SW8270 SIM, SW6020 144 Day GR ADOT MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 Poly 4 oz <6°C SO	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR03-WW	DR03	10/13/2022	1230	AJ	2	GA	250mL	<6°C	WW	SW8270 SIM		14 Day	PAHs
ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 9 VÓA 40mL <6°C; HCI WW AK101, SW8260, SW8260 SIM 14 Day GR ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL <6°C; HCI WW AK102/103 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL <6°C WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 1 HDPE 125mL HNO3 WW SW8020A 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 Poly 125mL <6°C WW EPA 537.1 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 Poly 125mL <6°C WW EPA 537.1 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 9 VOA 40mL <6°C; HCI WW AK101, SW8260, SW8260 SIM TB 14 Day GR ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 GA 8 oz <6°C SO AK102/103, SW8270 SIM, SW6020 14 Day DR0/F ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 Poly 4 oz <6°C SO AK102/103, SW8270 SIM, SW6020 14 Day DR0/F ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 Poly 4 oz <6°C SO AK102/103, SW8270 SIM 14 Day DR0/F ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 Poly 4 oz <6°C SO AK102/103, SW8270 SIM 14 Day DR0/F ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 Poly 4 oz <6°C SO AK102/103, SW8270 SIM 14 Day DR0/F ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 Poly 4 oz <6°C SO AK102/103, SW8270 SIM AM102 ADOT MAH ADOT MAH 22ADOT-MAH06 S	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR03-WW	DR03	10/13/2022	1230	AJ	1	HDPE	125mL	HNO3	WW	SW6020A		14 Day	Lead
ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL <6°C; HCI WW AK102/103 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL <6°C WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 1 HDPE 125mL HNO3 WW SW8020A 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 Poly 125mL <6°C WW EPA 537.1 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 Poly 125mL <6°C; HCI WW AK101, FW8260, SW8260 SIM TB 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR-SO SODR 10/20/2022 1555 KS 3 GA 4 oz <6°C, MeOH SO AK101, SW8260, SW8260 SIM TB 14 Day GR ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 GA 8 oz <6°C SO AK102/103, SW8270 SIM, SW6020 14 Day DR0/F ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 Poly 4 oz <6°C SO EPA 537.1 14 Day	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR03-WW	DR03	10/13/2022	1230	AJ	2	Poly	125mL	<6°C	WW	EPA 537.1		14 Day	PFAS
ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 GA 250mL <6°C WW SW8270 SIM 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 1 HDPE 125mL HNO3 WW SW6020A 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 Poly 125mL HNO3 WW SW6020A 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 Poly 125mL <6°C	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR04-WW	DR04	10/13/2022	1300	AJ	9	VOA	40mL	<6°C; HCI	WW	AK101, SW8260, SW8260 SIM		14 Day	GRO, VOCs, EDB
ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 1 HDPE 125mL HNO3 WW SW6020A 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 Poly 125mL <6°C	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR04-WW	DR04	10/13/2022	1300	AJ	2	GA	250mL	<6°C; HCI	WW	AK102/103		14 Day	DRO/RRO
ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-DR04-WW DR04 10/13/2022 1300 AJ 2 Poly 125mL <6°C WW EPA 537.1 14 Day ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-TB03W TB03W 10/13/2022 0800 AJ 9 VOA 40mL <6°C; HCI	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR04-WW	DR04	10/13/2022	1300	AJ	2	GA	250mL	<6°C	WW	SW8270 SIM		14 Day	PAHs
ADOT MAH 22ADOT-MAH05 SGS 1226337 22MAH-TB03W TB03W 10/13/2022 0800 AJ 9 VOA 40mL <6°C; HCI WW AK101, SW8260, SW8260 SIM TB 14 Day GR ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 3 GA 4 oz <6°C, MeOH SO AK101, SW8260, SW8260 SIM 14 Day GR ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 GA 8 oz <6°C SO AK102/103, SW8270 SIM, SW6020 14 Day DRO/F ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 Poly 4 oz <6°C SO EPA 537.1 14 Day	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR04-WW	DR04	10/13/2022	1300	AJ	1	HDPE	125mL	HNO3	WW	SW6020A		14 Day	Lead
ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 3 GA 4 oz <6°C, MeOH SO AK101, SW8260, SW8260 SIM 14 Day GR ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 GA 8 oz <6°C	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-DR04-WW	DR04	10/13/2022	1300	AJ	2	Poly	125mL	<6°C	WW	EPA 537.1		14 Day	PFAS
ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 GA 8 oz < 6°C SO AK102/103, SW8270 SIM, SW6020 14 Day DRO/F ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 Poly 4 oz < 6°C	ADOT MAH	22ADOT-MAH05	SGS	1226337	22MAH-TB03W	TB03W	10/13/2022	0800	AJ	9	VOA	40mL	<6°C; HCI	WW	AK101, SW8260, SW8260 SIM	TB	14 Day	GRO, VOCs, EDB
ADOT MAH 22ADOT-MAH06 SGS 1226513 22MAH-DR-SO SODR 10/20/2022 1555 KS 1 Poly 4 oz < 6°C SO EPA 537.1 14 Day	ADOT MAH	22ADOT-MAH06	SGS	1226513	22MAH-DR-SO	SODR	10/20/2022	1555	KS	3	GA	4 oz	< 6°C, MeOH	SO	AK101, SW8260, SW8260 SIM		14 Day	GRO, VOCs, EDB
	ADOT MAH	22ADOT-MAH06	SGS	1226513	22MAH-DR-SO	SODR	10/20/2022	1555	KS	1	GA	8 oz	< 6°C	SO	AK102/103, SW8270 SIM, SW6020		14 Day	DRO/RRO, PAHs, Lead
	ADOT MAH	22ADOT-MAH06	SGS	1226513	22MAH-DR-SO	SODR	10/20/2022	1555	KS	1	Poly	4 oz	< 6°C	SO	EPA 537.1		14 Day	PFAS
II ADOT MAH I 22ADOT-MAH06 SGS 1226513 Trip Blank TB 10/20/2022 0 KS 1 GA 4 oz < 6°C. MeOH SO AK101 SW8260 SW8260 SIM TB 14 Day GR	ADOT MAH	22ADOT-MAH06	SGS	1226513	Trip Blank	TB	10/20/2022	0	KS	1	GA	4 oz	< 6°C, MeOH	SO	AK101, SW8260, SW8260 SIM	TB	14 Day	GRO, VOCs, EDB

Notes:
°C = degrees Celsius

CoC = chain of custody Dup = field duplicate

EDB = 1,2-dibromoethane

EPA = U.S. Environmental Protection Agency

GA = amber glass

GRO/DRO/RRO = gasoline-, diesel-, residual-range organics

GW = groundwater

HCl = hydrochloric acid HDPE = high-density polyethylene

HNO3 = nitric acid

ID = identification

MeOH = methanol mL = milliliter

PAH = polycyclic aromatic hydrocarbon

PFAS = per- and polyfluoroalkyl substances

QC = quality control

SDG = sample delivery group

SGS = SGS North America Inc., Anchorage, AK

SO = soil

TAT = turnaround time TB = trip blank

VOA = volatile organic analysis VOC = volatile organic compound

WW = wastewater

2022 MarkAir Warehouse Groundwater Monitoring – Fairbanks International Airport, Fairbanks, Alaska Table F.2 Groundwater Monitoring Well Results

				Location ID:	MW3b	MW4	MW7b	MW8b
				Sample ID:	22MAH-MW3b-GW	22MAH-MW4-GW	22MAH-MW7b-GW	22MAH-MW8b-GW
				SDG:	1225314	1225222/223	1225314	1225314
			La	ab Sample ID:	1225314006	1225222001/1225223001	1225314002	1225314003
			Samp	le Date/Time:	08/31/2022 14:37:00	08/25/2022 09:50:00	08/30/2022 12:45:00	08/31/2022 10:14:00
				Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental
				QA/QC:	Primary Sample	Primary Sample	Primary Sample	Primary Sample
CASNumber	Method	Analyte	Units	GCL ¹				
-	AK101	GRO	mg/L	2.2	ND [0.05]	ND [0.05]	ND [0.05]	ND [0.05]
_	AK102	DRO	mg/L	1.5	0.3 [0.278] J	ND [0.294]	0.637 [0.319] J	0.918 [0.3] JD
-	AK103	RRO	mg/L	1.1	0.372 [0.232] J,B	0.24 [0.245] J	0.873 [0.266]	0.579 [0.25] B
7439-92-1	6020B	Lead	mg/L	0.015	0.0134 [0.0005]	0.000427 [0.0005] J	0.000894 [0.0005] J	0.000698 [0.0005] J,JD
630-20-6	8260D	1.1.1.2-Tetrachloroethane	mg/L	0.0057	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
71-55-6	8260D	1,1,1-Trichloroethane	mg/L	8	0.0005 [0.0005] J	ND [0.0005]	ND [0.0005]	ND [0.0005]
79-34-5	8260D	1,1,2,2-Tetrachloroethane	mg/L	0.00076	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
79-00-5	8260D	1,1,2-Trichloroethane	mg/L	0.00041	ND [0.0002]	ND [0.0002]	ND [0.0002]	ND [0.0002]
75-34-3	8260D	1,1-Dichloroethane	mg/L	0.028	0.00032 [0.0005] J	ND [0.0005]	ND [0.0005]	ND [0.0005]
75-35-4	8260D	1,1-Dichloroethene	mg/L	0.28	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
563-58-6	8260D	1,1-Dichloropropene	mg/L	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
96-18-4	8260D	1,2,3-TCP	mg/L	0.0000075	ND [0.0005] E	ND [0.0005] E	ND [0.0005] E	ND [0.0005] E
87-61-6	8260D	1,2,3-Trichlorobenzene	mg/L	0.007	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
95-63-6	8260D	1,2,4-TMB	mg/L	0.056	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
120-82-1	8260D	1,2,4-Trichlorobenzene	mg/L	0.004	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
96-12-8	8260D	1,2-Dibromo-3-chloropropane	mg/L	-	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
95-50-1	8260D	1,2-Dichlorobenzene	mg/L	0.3	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
107-06-2	8260D	1,2-Dichloroethane	mg/L	0.0017	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
78-87-5	8260D	1,2-Dichloropropane	mg/L	0.0082	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
108-67-8	8260D	1,3,5-TMB	mg/L	0.06	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
541-73-1	8260D	1,3-Dichlorobenzene	mg/L	0.3	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
142-28-9	8260D	1,3-Dichloropropane	mg/L	-	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
106-46-7	8260D	1,4-Dichlorobenzene	mg/L	0.0048	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
594-20-7	8260D	2,2-Dichloropropane	mg/L	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
95-49-8	8260D	2-Chlorotoluene	mg/L	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
591-78-6	8260D	2-Hexanone	mg/L	0.038	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
106-43-4	8260D	4-Chlorotoluene	mg/L	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
108-10-1	8260D	4-Methyl-2-Pentanone	mg/L	6.3	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
71-43-2 108-86-1	8260D 8260D	Benzene Bromobenzene	mg/L	0.0046 0.062	ND [0.0002] ND [0.0005]	ND [0.0002] ND [0.0005]	ND [0.0002] ND [0.0005]	0.00022 [0.0002] J ND [0.0005]
74-97-5	8260D 8260D	Bromobenzene Bromochloromethane	mg/L mg/L	0.062	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]
74-97-5 75-27-4	8260D	Bromodichloromethane	mg/L	0.0013	ND [0.0005] ND [0.00025]	ND [0.0005]	ND [0.0005] ND [0.00025]	ND [0.0005] ND [0.00025]
75-27-4	8260D	Bromoform	mg/L	0.033	ND [0.00025]	ND [0.00025] ND [0.0005]	ND [0.00025]	ND [0.00025]
74-83-9	8260D	Bromomethane	mg/L	0.0075	ND [0.0003]	ND [0.0003]	ND [0.003]	ND [0.0003]
75-15-0	8260D	Carbon Disulfide	mg/L	0.81	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
56-23-5	8260D	Carbon Tetrachloride	mg/L	0.0046	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
108-90-7	8260D	Chlorobenzene	mg/L	0.078	ND [0.0003]	ND [0.0003]	ND [0.0005]	ND [0.0003]
75-00-3	8260D	Chloroethane	mg/L	21	ND [0.00023]	ND [0.00023]	ND [0.00023]	ND [0.00023]
67-66-3	8260D	Chloroform	mg/L	0.0022	0.0174 [0.0005]	ND [0.0005]	0.00053 [0.0005] J	0.00457 [0.0005]
74-87-3	8260D	Chloromethane	mg/L	0.19	ND [0.0005]	ND [0.0005]	ND [0.0005]	0.00043 [0.0005] J
542-75-6	8260D	cis-1,3-Dichloropropene	mg/L	0.0047	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
156-59-2	8260D	cis-DCE	mg/L	0.036	ND [0.0005]	ND [0.0005]	ND [0.0005]	0.00032 [0.0005] J
98-82-8	8260D	Cumene	mg/L	0.45	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
124-48-1	8260D	Dibromochloromethane	mg/L	0.0087	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]

2022 MarkAir Warehouse Groundwater Monitoring – Fairbanks International Airport, Fairbanks, Alaska Table F.2 Groundwater Monitoring Well Results

				Location ID:	MW3b	MW4	MW7b	MW8b
				Sample ID:	22MAH-MW3b-GW	22MAH-MW4-GW	22MAH-MW7b-GW	22MAH-MW8b-GW
				SDG:	1225314	1225222/223	1225314	1225314
			L	ab Sample ID:	1225314006	1225222001/1225223001	1225314	1225314
				le Date/Time:	08/31/2022 14:37:00	08/25/2022 09:50:00	08/30/2022 12:45:00	08/31/2022 10:14:00
			Janip	Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental
				QA/QC:		Primary Sample	Primary Sample	
			ı		Primary Sample	Primary Sample	Primary Sample	Primary Sample
CASNumber	Method	Analyte	Units	GCL ¹				
74-95-3	8260D	Dibromomethane	mg/L	0.0083	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
106-93-4	8260D	EDB	mg/L	0.000075	ND [0.0000375]	ND [0.0000375]	ND [0.0000375]	ND [0.0000375]
100-41-4	8260D	Ethylbenzene	mg/L	0.015	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
75-69-4	8260D	Freon-11	mg/L	5.2	0.0187 [0.0005]	0.00207 [0.0005]	ND [0.0005]	0.0456 [0.0005]
	8260D	Freon-113	mg/L		ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
75-71-8	8260D	Freon-12	mg/L	0.2	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
87-68-3	8260D	Hexachlorobutadiene	mg/L	0.0014	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
-	8260D	m,p-Xylene	mg/L	-	ND [0.001]	ND [0.001]	ND [0.001]	ND [0.001]
78-93-3	8260D	MEK	mg/L	5.6	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
75-09-2	8260D	Methylene Chloride	mg/L	0.11	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
1634-04-4	8260D	MTBE	mg/L	0.14	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
91-20-3	8260D	Naphthalene	mg/L	0.0017	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
104-51-8	8260D	n-Butylbenzene	mg/L	1	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
-	8260D	o-Xylene	mg/L	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
127-18-4	8260D	PCE	mg/L	0.041	0.00033 [0.0005] J	ND [0.0005]	ND [0.0005]	0.0007 [0.0005] J
99-87-6	8260D	p-Cymene	mg/L	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
103-65-1	8260D	Propylbenzene	mg/L	0.66	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
135-98-8	8260D	sec-Butylbenzene	mg/L	2	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
100-42-5	8260D	Styrene	mg/L	1.2	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
79-01-6	8260D	TCE	mg/L	0.0028	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
98-06-6	8260D	tert-Butylbenzene	mg/L	0.69	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
108-88-3	8260D	Toluene	mg/L	1.1	ND [0.0005]	ND [0.0005]	0.000447 [0.0005] J	ND [0.0005]
542-75-6	8260D	trans-1,3-Dichloropropene	mg/L	0.0047	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
156-60-5	8260D	trans-DCE	mg/L	0.36	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
75-01-4	8260D	VC	mg/L	0.00019	ND [0.000075]	ND [0.000075]	ND [0.000075]	ND [0.000075]
108-05-4	8260D	Vinyl Acetate	mg/L	0.41	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
1330-20-7	8260D	Xylenes	mg/L	0.19	ND [0.0015]	ND [0.0015]	ND [0.0015]	ND [0.0015]
106-93-4	8260D-SIM	EDB	mg/L	0.000075	ND [0.0000025]	ND [0.0000025]	ND [0.0000025]	ND [0.0000025]
90-12-0	8270DSIM	1-Methylnaphthalene	mg/L	0.011	0.0000274 [0.0000261] J,B	0.0000292 [0.000025] J,B	0.0000221 [0.0000266] J,B	0.0000208 [0.0000255] J,B,JD
91-57-6	8270DSIM	2-Methylnaphthalene	mg/L	0.036	0.0000327 [0.0000261] J,B	0.0000443 [0.000025] J,B	0.0000329 [0.0000266] J,B	0.0000256 [0.0000255] J,B,JD
83-32-9	8270DSIM	Acenaphthene	mg/L	0.53	ND [0.0000261]	ND [0.000025]	ND [0.0000266]	ND [0.0000255]
208-96-8	8270DSIM	Acenaphthylene	mg/L	0.26	ND [0.0000261]	ND [0.000025]	ND [0.0000266]	ND [0.0000255]
120-12-7	8270DSIM	Anthracene	mg/L	0.043	ND [0.0000261]	ND [0.000025]	ND [0.0000266]	ND [0.0000255]
56-55-3	8270DSIM	Benzo(a)anthracene	mg/L	0.0003	ND [0.0000261]	ND [0.000025]	ND [0.0000266]	ND [0.0000255]
50-32-8	8270DSIM	Benzo(a)pyrene	mg/L	0.00025	ND [0.0000104]	ND [0.00001]	ND [0.0000107]	ND [0.0000102]
205-99-2	8270DSIM	Benzo(b)fluoranthene	mg/L	0.0025	ND [0.0000261]	ND [0.000025]	ND [0.0000266]	ND [0.0000255]
191-24-2	8270DSIM	Benzo(g,h,i)perylene	mg/L	0.00026	ND [0.0000261]	ND [0.000025]	ND [0.0000266]	ND [0.0000255]
207-08-9	8270DSIM	Benzo(k)fluoranthene	mg/L	0.0008	ND [0.0000261]	ND [0.000025]	ND [0.0000266]	ND [0.0000255]
218-01-9	8270DSIM	Chrysene	mg/L	0.002	ND [0.0000261]	ND [0.000025]	ND [0.0000266]	ND [0.0000255]
53-70-3	8270DSIM	Dibenzo(a,h)anthracene	mg/L	0.00025	ND [0.0000104]	ND [0.00001]	ND [0.0000107]	ND [0.0000102]
206-44-0	8270DSIM	Fluoranthene	mg/L	0.26	0.0000182 [0.0000261] J	ND [0.000025]	ND [0.0000266]	ND [0.0000255]
86-73-7	8270DSIM	Fluorene	mg/L	0.29	ND [0.0000261]	ND [0.000025]	ND [0.0000266]	ND [0.0000255]
193-39-5	8270DSIM	Indeno(1,2,3-cd)pyrene	mg/L	0.00019	ND [0.0000261]	ND [0.000025]	ND [0.0000266]	ND [0.0000255]

2022 MarkAir Warehouse Groundwater Monitoring - Fairbanks International Airport, Fairbanks, Alaska **Table F.2 Groundwater Monitoring Well Results**

				Location ID: Sample ID:	1111100	MW4 22MAH-MW4-GW	MW7b 22MAH-MW7b-GW	MW8b 22MAH-MW8b-GW
				SDG:	1225314	1225222/223	1225314	1225314
				ab Sample ID: le Date/Time:		1225222001/1225223001 08/25/2022 09:50:00	1225314002 08/30/2022 12:45:00	1225314003 08/31/2022 10:14:00
			Ouring	Laboratory:		SGS Environmental	SGS Environmental	SGS Environmental
				QA/QC:	Primary Sample	Primary Sample	Primary Sample	Primary Sample
CASNumber	Method	Analyte	Units	GCL ¹				
91-20-3	8270DSIM	Naphthalene	mg/L	0.0017	0.000043 [0.000052] J	ND [0.00005]	ND [0.000053]	0.0000406 [0.000051] J
85-01-8	8270DSIM	Phenanthrene	mg/L	0.17	0.0000632 [0.000052] J	0.0000478 [0.00005] J,B	0.0000466 [0.000053] J	ND [0.000051]
129-00-0	8270DSIM	Pyrene	mg/L	0.12	ND [0.0000261]	ND [0.000025]	ND [0.0000266]	ND [0.0000255]

Notes:

¹ 18 AAC 75. Table C Groundwater Human Health Cleanup Levels (ADEC 2021).

Bold = Exceeds ADEC Groundwater Human Health Levels.

- = no criteria/not analyzed

[] = limit of detection (LOD)

CAS = Chemical Abstracts Service

GCL/SCL = groundwater/soil cleanup level

ID = identification

mg/L = milligram(s) per liter

ND = nondetect

QA/QC = quality assurance/quality control

SDG = sample delivery group

J = The result is an estimated value because it was greater than the DL but less than the limit of quantitation.

E = The result was nondetect (ND) and the limit of detection (LOD) exceeds the GCL or SCL.

B = The analyte was detected in the method blank, trip blank or equipment blank and the concentration in the sample did not exceed the blank concentration by a factor of 5.

JD = The result was qualified because the relative percent difference (RPD) between the primary sample and the field duplicate sample exceeded 50 percent for soil or 30 percent for water and at least one of the results is greater than the LOD. If one result was a detect, and the other was a ND, then the LOD value was used in the RPD calculation for the ND result.

2022 MarkAir Warehouse Groundwater Monitoring – Fairbanks International Airport, Fairbanks, Alaska Table F.2 Groundwater Monitoring Well Results

				Location ID:	MW8b	MW12	MW13	TB01W	TB02W
				Sample ID:	22MAH-MW8b-GWA	22MAH-MW12-GW	22MAH-MW13-GW	22MAH-TB01W	22MAH-TB02W
				SDG:	1225314	1225314	1225314	1225223	1225314
				ab Sample ID:	1225314	1225314	1225314	1225223	1225314
				•					08/30/2022 08:00:00
			Samp	ple Date/Time:	08/31/2022 10:14:00	08/31/2022 12:00:00	08/30/2022 11:05:00	08/25/2022 08:00:00	
				Laboratory:	SGS Environmental				
				QA/QC:	Field Duplicate	Primary Sample	Primary Sample	Trip Blank	Trip Blank
CASNumber	Method	Analyte	Units	GCL ¹					
-	AK101	GRO	mg/L	2.2	ND [0.05]				
-	AK102	DRO	mg/L	1.5	0.627 [0.288] JD	0.538 [0.3] J	1.44 [0.341]	-	-
-	AK103	RRO	mg/L	1.1	0.537 [0.24] B	0.845 [0.25] B	0.899 [0.284]	-	-
7439-92-1	6020B	Lead	mg/L	0.015	0.000493 [0.0005] J,JD	0.000829 [0.0005] J	0.00143 [0.0005]	-	-
630-20-6	8260D	1,1,1,2-Tetrachloroethane	mg/L	0.0057	ND [0.00025]				
71-55-6	8260D	1,1,1-Trichloroethane	mg/L	8	ND [0.0005]				
79-34-5	8260D	1,1,2,2-Tetrachloroethane	mg/L	0.00076	ND [0.00025]				
79-00-5	8260D	1,1,2-Trichloroethane	mg/L	0.00041	ND [0.0002]				
75-34-3	8260D	1,1-Dichloroethane	mg/L	0.028	ND [0.0005]				
75-35-4	8260D	1,1-Dichloroethene	mg/L	0.28	ND [0.0005]				
563-58-6	8260D	1,1-Dichloropropene	mg/L	-	ND [0.0005]				
96-18-4	8260D	1,2,3-TCP	mg/L	0.0000075	ND [0.0005] E				
87-61-6	8260D	1,2,3-Trichlorobenzene 1,2,4-TMB	mg/L	0.007	ND [0.0005]				
95-63-6	8260D	1,=, 1 111=	mg/L	0.056	ND [0.0005]	0.00058 [0.0005] J	ND [0.0005]	ND [0.0005]	ND [0.0005]
120-82-1	8260D	1,2,4-Trichlorobenzene	mg/L	0.004	ND [0.0005]				
96-12-8	8260D	1,2-Dibromo-3-chloropropane	mg/L	-	ND [0.005]				
95-50-1	8260D 8260D	1,2-Dichlorobenzene 1.2-Dichloroethane	mg/L	0.3 0.0017	ND [0.0005]	ND [0.0005]	ND [0.0005] ND [0.00025]	ND [0.0005] ND [0.00025]	ND [0.0005] ND [0.00025]
107-06-2 78-87-5	8260D	1,2-Dichloropropane	mg/L mg/L	0.0017	ND [0.00025] ND [0.0005]	ND [0.00025] ND [0.0005]	ND [0.00025] ND [0.0005]	ND [0.00025]	ND [0.00025] ND [0.0005]
108-67-8	8260D	1,3,5-TMB	mg/L	0.0082	ND [0.0005] ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
541-73-1	8260D	1,3-Dichlorobenzene	mg/L	0.00	ND [0.0005]				
142-28-9	8260D	1,3-Dichloropropane	mg/L	-	ND [0.0005]	ND [0.0005]	ND [0.0003]	ND [0.0003]	ND [0.0003]
106-46-7	8260D	1,4-Dichlorobenzene	mg/L	0.0048	ND [0.00025]				
594-20-7	8260D	2,2-Dichloropropane	mg/L	-	ND [0.00020]	ND [0.00020]	ND [0.00023]	ND [0.00020]	ND [0.00020]
95-49-8	8260D	2-Chlorotoluene	mg/L		ND [0.0005]				
591-78-6	8260D	2-Hexanone	mg/L	0.038	ND [0.005]				
106-43-4	8260D	4-Chlorotoluene	mg/L	-	ND [0.0005]				
108-10-1	8260D	4-Methyl-2-Pentanone	mg/L	6.3	ND [0.005]				
71-43-2	8260D	Benzene	mg/L	0.0046	0.00019 [0.0002] J	ND [0.0002]	0.000286 [0.0002] J	ND [0.0002]	ND [0.0002]
108-86-1	8260D	Bromobenzene	mg/L	0.062	ND [0.0005]				
74-97-5	8260D	Bromochloromethane	mg/L	-	ND [0.0005]				
75-27-4	8260D	Bromodichloromethane	mg/L	0.0013	ND [0.00025]				
75-25-2	8260D	Bromoform	mg/L	0.033	ND [0.0005]				
74-83-9	8260D	Bromomethane	mg/L	0.0075	ND [0.003]				
75-15-0	8260D	Carbon Disulfide	mg/L	0.81	ND [0.005]				
56-23-5	8260D	Carbon Tetrachloride	mg/L	0.0046	ND [0.0005]				
108-90-7	8260D	Chlorobenzene	mg/L	0.078	ND [0.00025]				
75-00-3	8260D	Chloroethane	mg/L	21	ND [0.0005]				
67-66-3	8260D	Chloroform	mg/L	0.0022	0.00391 [0.0005]	0.00117 [0.0005]	0.00394 [0.0005]	ND [0.0005]	ND [0.0005]
74-87-3	8260D	Chloromethane	mg/L	0.19	ND [0.0005]	ND [0.0005]	0.0011 [0.0005]	ND [0.0005]	ND [0.0005]
542-75-6	8260D	cis-1,3-Dichloropropene	mg/L	0.0047	ND [0.00025]				
156-59-2	8260D	cis-DCE	mg/L	0.036	0.00038 [0.0005] J	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
98-82-8	8260D	Cumene	mg/L	0.45	ND [0.0005]				
124-48-1	8260D	Dibromochloromethane	mg/L	0.0087	ND [0.00025]				

2022 MarkAir Warehouse Groundwater Monitoring – Fairbanks International Airport, Fairbanks, Alaska Table F.2 Groundwater Monitoring Well Results

				Location ID:	MAZOL	N/A/40	N/A/40	TDOAW	TDOOM
					WWWOD	MW12	MW13	TB01W	TB02W
				Sample ID:	ZZIVIJ UT IVIVVOD OVVIV	22MAH-MW12-GW	22MAH-MW13-GW	22MAH-TB01W	22MAH-TB02W
				SDG:		1225314	1225314	1225223	1225314
				ab Sample ID:		1225314005	1225314001	1225223005	1225314007
			Samp	ple Date/Time:	08/31/2022 10:14:00	08/31/2022 12:00:00	08/30/2022 11:05:00	08/25/2022 08:00:00	08/30/2022 08:00:00
				Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental
				QA/QC:	Field Duplicate	Primary Sample	Primary Sample	Trip Blank	Trip Blank
CASNumber	Method	Analyte	Units	GCL ¹					
74-95-3	8260D	Dibromomethane	mg/L	0.0083	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
106-93-4	8260D	EDB	mg/L	0.000075	ND [0.000375]	ND [0.0000375]	ND [0.0000375]	ND [0.0000375]	ND [0.0000375]
100-41-4	8260D	Ethylbenzene	mg/L	0.015	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
75-69-4	8260D	Freon-11	mg/L	5.2	0.0434 [0.0005]	0.0323 [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
-	8260D	Freon-113	mg/L	-	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
75-71-8	8260D	Freon-12	mg/L	0.2	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
87-68-3	8260D	Hexachlorobutadiene	mg/L	0.0014	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
-	8260D	m,p-Xylene	mg/L	-	ND [0.001]	0.00102 [0.001] J	ND [0.001]	ND [0.001]	ND [0.001]
78-93-3	8260D	MEK	mg/L	5.6	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
75-09-2	8260D	Methylene Chloride	mg/L	0.11	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
1634-04-4	8260D	MTBE	mg/L	0.14	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
91-20-3	8260D	Naphthalene	mg/L	0.0017	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
104-51-8	8260D	n-Butylbenzene	mg/L	1	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
-	8260D	o-Xylene	mg/L	-	ND [0.0005]	0.00038 [0.0005] J	ND [0.0005]	ND [0.0005]	ND [0.0005]
127-18-4	8260D	PCE	mg/L	0.041	0.00075 [0.0005] J	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
99-87-6	8260D	p-Cymene	mg/L	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
103-65-1	8260D	Propylbenzene	mg/L	0.66	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
135-98-8	8260D	sec-Butylbenzene	mg/L	2	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
100-42-5	8260D	Styrene	mg/L	1.2	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
79-01-6	8260D	TCE	mg/L	0.0028	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
98-06-6	8260D	tert-Butylbenzene	mg/L	0.69	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
108-88-3	8260D	Toluene	mg/L	1.1	ND [0.0005]	0.00034 [0.0005] J	ND [0.0005]	ND [0.0005]	ND [0.0005]
542-75-6	8260D	trans-1,3-Dichloropropene	mg/L	0.0047	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
156-60-5	8260D	trans-DCE	mg/L	0.36	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
75-01-4	8260D	VC	mg/L	0.00019	ND [0.000075]	ND [0.000075]	ND [0.000075]	ND [0.000075]	ND [0.000075]
108-05-4	8260D	Vinyl Acetate	mg/L	0.41	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
1330-20-7	8260D	Xylenes	mg/L	0.19	ND [0.0015]	0.0014 [0.0015] J	ND [0.0015]	ND [0.0015]	ND [0.0015]
106-93-4	8260D-SIM	EDB	mg/L	0.000075	ND [0.0000025]	ND [0.0000025]	ND [0.0000025]	ND [0.0000025]	ND [0.0000025]
90-12-0	8270DSIM	1-Methylnaphthalene	mg/L	0.011	0.0000284 [0.0000261] J,B,JD		0.0000224 [0.0000272] J,B	-	-
91-57-6	8270DSIM	2-Methylnaphthalene	mg/L	0.036	0.0000393 [0.0000261] J,B,JD	0.0000652 [0.0000261] B	0.0000289 [0.0000272] J,B	-	-
83-32-9	8270DSIM	Acenaphthene	mg/L	0.53	ND [0.0000261]	ND [0.0000261]	ND [0.0000272]	-	-
208-96-8	8270DSIM	Acenaphthylene	mg/L	0.26	ND [0.0000261]	ND [0.0000261]	ND [0.0000272]	-	-
120-12-7	8270DSIM	Anthracene	mg/L	0.043	ND [0.0000261]	ND [0.0000261]	ND [0.0000272]	-	-
56-55-3	8270DSIM	Benzo(a)anthracene	mg/L	0.0003	ND [0.0000261]	ND [0.0000261]	ND [0.0000272]	-	-
50-32-8	8270DSIM	Benzo(a)pyrene	mg/L	0.00025	ND [0.0000104]	ND [0.0000104]	ND [0.0000109]	-	-
205-99-2	8270DSIM	Benzo(b)fluoranthene	mg/L	0.0025	ND [0.0000261]	ND [0.0000261]	ND [0.0000272]	-	-
191-24-2	8270DSIM	Benzo(g,h,i)perylene	mg/L	0.00026	ND [0.0000261]	ND [0.0000261]	ND [0.0000272]	-	-
207-08-9	8270DSIM	Benzo(k)fluoranthene	mg/L	0.0008	ND [0.0000261]	ND [0.0000261]	ND [0.0000272]	-	-
218-01-9	8270DSIM	Chrysene	mg/L	0.002	ND [0.0000261]	ND [0.0000261]	ND [0.0000272]	-	-
53-70-3	8270DSIM	Dibenzo(a,h)anthracene	mg/L	0.00025	ND [0.0000104]	ND [0.0000104]	ND [0.0000109]	-	-
206-44-0	8270DSIM	Fluoranthene	mg/L	0.26	ND [0.0000261]	ND [0.0000261]	ND [0.0000272]	-	-
86-73-7	8270DSIM	Fluorene	mg/L	0.29	ND [0.0000261]	0.000025 [0.0000261] J	ND [0.0000272]	-	-
193-39-5	8270DSIM	Indeno(1,2,3-cd)pyrene	mg/L	0.00019	ND [0.0000261]	ND [0.0000261]	ND [0.0000272]	-	-

2022 MarkAir Warehouse Groundwater Monitoring - Fairbanks International Airport, Fairbanks, Alaska **Table F.2 Groundwater Monitoring Well Results**

				Location ID: Sample ID: SDG: ab Sample ID: ale Date/Time: Laboratory: QA/QC:	22MAH-MW8b-GWA 1225314 1225314004 08/31/2022 10:14:00 SGS Environmental	MW12 22MAH-MW12-GW 1225314 1225314005 08/31/2022 12:00:00 SGS Environmental Primary Sample	MW13 22MAH-MW13-GW 1225314 1225314001 08/30/2022 11:05:00 SGS Environmental Primary Sample	TB01W 22MAH-TB01W 1225223 1225223005 08/25/2022 08:00:00 SGS Environmental Trip Blank	TB02W 22MAH-TB02W 1225314 1225314007 08/30/2022 08:00:00 SGS Environmental Trip Blank
CASNumber	Method	Analyte	Units	GCL ¹					
91-20-3	8270DSIM	Naphthalene	mg/L	0.0017	0.0000451 [0.000052] J	0.000119 [0.000052]	ND [0.0000545]	-	-
85-01-8	8270DSIM	Phenanthrene	mg/L	0.17	ND [0.000052]	ND [0.000052]	0.0000534 [0.0000545] J	-	-
129-00-0	8270DSIM	Pyrene	mg/L	0.12	ND [0.0000261]	ND [0.0000261]	ND [0.0000272]	-	-

Notes:

¹ 18 AAC 75. Table C Groundwater Human Health Cleanup Levels (ADEC 2021).

Bold = Exceeds ADEC Groundwater Human Health Levels.

- = no criteria/not analyzed

[] = limit of detection (LOD)

CAS = Chemical Abstracts Service

GCL/SCL = groundwater/soil cleanup level

ID = identification

mg/L = milligram(s) per liter

ND = nondetect

QA/QC = quality assurance/quality control

SDG = sample delivery group

J = The result is an estimated value because it was greater than the DL but less than the limit of quantitation.

E = The result was nondetect (ND) and the limit of detection (LOD) exceeds the GCL or SCL.

B = The analyte was detected in the method blank, trip blank or equipment blank and the concentration in the sample did not exceed the blank concentration by a factor of 5.

JD = The result was qualified because the relative percent difference (RPD) between the primary sample and the field duplicate sample exceeded 50 percent for soil or 30 percent for water and at least one of the results is greater than the LOD. If one result was a detect, and the other was a ND, then the LOD value was used in the RPD calculation for the ND result.

				Location ID:	TW01	TW02	TW02	TW03	TW04
				Sample ID:	22MAH-TW01-GW	22MAH-TW02-GW	22MAH-TW02-GWA	22MAH-TW03-GW	22MAH-TW04-GW
				SDG:	1225222/223	1225222/223	1225222/223	1225222/223	1225222/223
			Lab	Sample ID:	1225222005/1225223006	1225222006/1225223007	1225222007/1225223008	1225222003/1225223003	1225222002/1225223002
			Sample	Date/Time:	08/26/2022 16:10:00	08/26/2022 09:30:00	08/26/2022 09:30:00	08/25/2022 16:40:00	08/25/2022 11:45:00
			•	Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental
				QA/QC:	Primary Sample	Primary Sample	Field Duplicate	Primary Sample	Primary Sample
OAO Normala an	Madla a al	Amalata	Harita		, ,,,,,,,,,				,
CAS Number	Method	Analyte	Units	GCL ¹					
-	AK101	GRO	mg/L	2.2	0.539 [0.05] JS+	ND [0.05]	ND [0.05]	ND [0.05]	ND [0.05]
-	AK102	DRO	mg/L	1.5	5.3 [0.288]	ND [0.283]	ND [0.288]	0.427 [0.294] J	0.73 [0.288]
	AK103	RRO	mg/L	1.1	2.11 [0.24]	0.452 [0.236] J	0.413 [0.24] J	0.611 [0.245]	0.475 [0.24] J
7439-92-1	6020B	Lead	mg/L	0.015	0.00903 [0.0005]	0.000564 [0.0005] J	0.000559 [0.0005] J	0.000373 [0.0005] J	0.000567 [0.0005] J
630-20-6	8260D	1,1,1,2-Tetrachloroethane	mg/L	0.0057	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
71-55-6	8260D	1,1,1-Trichloroethane	mg/L	8	0.00445 [0.0005] JS+	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
79-34-5	8260D	1,1,2,2-Tetrachloroethane	mg/L	0.00076	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
79-00-5	8260D	1,1,2-Trichloroethane	mg/L	0.00041	ND [0.0002]	ND [0.0002]	ND [0.0002]	ND [0.0002]	ND [0.0002]
75-34-3	8260D	1,1-Dichloroethane	mg/L	0.028	0.00327 [0.0005] JS+	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
75-35-4	8260D	1,1-Dichloroethene	mg/L	0.28	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
563-58-6	8260D	1,1-Dichloropropene	mg/L	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
96-18-4	8260D	1,2,3-TCP	mg/L	0.0000075	ND [0.0005] E	ND [0.0005] E	ND [0.0005] E	ND [0.0005] E	ND [0.0005] E
87-61-6	8260D	1,2,3-Trichlorobenzene	mg/L	0.007	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
95-63-6	8260D	1,2,4-TMB	mg/L	0.056	0.0951 [0.0005] JS+	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
120-82-1	8260D	1,2,4-Trichlorobenzene	mg/L	0.004	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
96-12-8	8260D	1,2-Dibromo-3-chloropropane	mg/L	-	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
95-50-1 107-06-2	8260D	1,2-Dichlorobenzene	mg/L	0.3 0.0017	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
78-87-5	8260D 8260D	1,2-Dichloroethane	mg/L	0.0017	ND [0.00025] ND [0.0005]	ND [0.00025] ND [0.0005]	ND [0.00025] ND [0.0005]	ND [0.00025] ND [0.0005]	ND [0.00025] ND [0.0005]
		1,2-Dichloropropane 1.3.5-TMB	mg/L	0.0082			ND [0.0005] ND [0.0005]	11	ND [0.0005] ND [0.0005]
108-67-8 541-73-1	8260D 8260D	1,3,5-1 MB 1.3-Dichlorobenzene	mg/L	0.06	0.0291 [0.0005] JS+	ND [0.0005]	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]
142-28-9	8260D	1,3-Dichloropropane	mg/L	0.3	ND [0.0005] ND [0.00025]	ND [0.0005] ND [0.00025]	ND [0.0005]	ND [0.0005] ND [0.00025]	ND [0.0005]
106-46-7	8260D	1,4-Dichlorobenzene	mg/L mg/L	0.0048	ND [0.00025] ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
594-20-7	8260D	2,2-Dichloropropane	mg/L	0.0046	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
95-49-8	8260D	2-Chlorotoluene	mg/L	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
591-78-6	8260D	2-Hexanone	mg/L	0.038	ND [0.0003]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
106-43-4	8260D	4-Chlorotoluene	mg/L	-	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
108-10-1	8260D	4-Methyl-2-Pentanone	mg/L	6.3	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.0003]
71-43-2	8260D	Benzene	mg/L	0.0046	ND [0.000]	ND [0.000]	ND [0.000]	ND [0.000]	ND [0.003]
108-86-1	8260D	Bromobenzene	mg/L	0.062	ND [0.0002]	ND [0.0002]	ND [0.0002]	ND [0.0002]	ND [0.0002]
74-97-5	8260D	Bromochloromethane	mg/L	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
75-27-4	8260D	Bromodichloromethane	mg/L	0.0013	ND [0.0003]	ND [0.0003]	ND [0.0003]	ND [0.0003]	ND [0.0003]
75-25-2	8260D	Bromoform	mg/L	0.033	ND [0.00020]	ND [0.00020]	ND [0.00020]	ND [0.00020]	ND [0.00020]
74-83-9	8260D	Bromomethane	mg/L	0.0075	ND [0.003]	ND [0.003]	ND [0.003]	ND [0.003]	ND [0.003]
75-15-0	8260D	Carbon Disulfide	mg/L	0.81	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
56-23-5	8260D	Carbon Tetrachloride	mg/L	0.0046	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
108-90-7	8260D	Chlorobenzene	mg/L	0.078	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
75-00-3	8260D	Chloroethane	mg/L	21	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
67-66-3	8260D	Chloroform	mg/L	0.0022	0.0197 [0.0005] JS+	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
74-87-3	8260D	Chloromethane	mg/L	0.19	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
542-75-6	8260D	cis-1,3-Dichloropropene	mg/L	0.0047	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
156-59-2	8260D	cis-DCE	mg/L	0.036	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
98-82-8	8260D	Cumene	mg/L	0.45	0.00567 [0.0005] JS+	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
124-48-1	8260D	Dibromochloromethane	mg/L	0.0087	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
74-95-3	8260D	Dibromomethane	mg/L	0.0083	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
106-93-4	8260D	EDB	mg/L	0.000075	ND [0.0000375]	ND [0.0000375]	ND [0.0000375]	ND [0.0000375]	ND [0.0000375]
100-41-4	8260D	Ethylbenzene	mg/L	0.015	0.0101 [0.0005] JS+	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
75-69-4	8260D	Freon-11	mg/L	5.2	0.025 [0.0005] JS+	0.00388 [0.0005]	0.00413 [0.0005]	0.00278 [0.0005]	ND [0.0005]
-	8260D	Freon-113	mg/L		ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]

			L	ocation ID:	TW01	TW02	TW02	TW03	TW04
						11102	11102	1 44 00	1 77 04
				Sample ID:	22MAH-TW01-GW	22MAH-TW02-GW	22MAH-TW02-GWA	22MAH-TW03-GW	22MAH-TW04-GW
				SDG:	1225222/223	1225222/223	1225222/223	1225222/223	1225222/223
			Lab	Sample ID:	1225222005/1225223006	1225222006/1225223007	1225222007/1225223008	1225222003/1225223003	1225222002/1225223002
			Sample	Date/Time:	08/26/2022 16:10:00	08/26/2022 09:30:00	08/26/2022 09:30:00	08/25/2022 16:40:00	08/25/2022 11:45:00
			·	Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental
				QA/QC:	Primary Sample	Primary Sample	Field Duplicate	Primary Sample	Primary Sample
CAS Number	Method	Analyte	Units	GCL ¹	, ,	, ,	·	, ,	, ,
75-71-8	8260D	Freon-12	ma/L	0.2	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
87-68-3	8260D	Hexachlorobutadiene	mg/L	0.0014	ND [0.0005]	ND [0.0005]	ND [0.0005] ND [0.0005]	ND [0.0005]	ND [0.0005]
87-06-3	8260D	m,p-Xylene	mg/L	0.0014	0.0579 [0.0003]	ND [0.0003]	ND [0.0003]	ND [0.0005]	ND [0.0003]
78-93-3	8260D	MEK		5.6	ND [0.005]	ND [0.001] ND [0.005]	ND [0.001]	ND [0.001]	ND [0.001]
			mg/L		(* * * * * *)			, ,	
75-09-2	8260D	Methylene Chloride	mg/L	0.11	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
1634-04-4	8260D	MTBE	mg/L	0.14	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
91-20-3	8260D	Naphthalene	mg/L	0.0017	0.0507 [0.0005] JS+	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
104-51-8	8260D	n-Butylbenzene	mg/L	1	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
-	8260D	o-Xylene	mg/L	-	0.118 [0.0005] JS+	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
127-18-4	8260D	PCE	mg/L	0.041	0.00134 [0.0005] JS+	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
99-87-6	8260D	p-Cymene	mg/L	-	0.00419 [0.0005] JS+	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
103-65-1	8260D	Propylbenzene	mg/L	0.66	0.00635 [0.0005] JS+	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
135-98-8	8260D	sec-Butylbenzene	mg/L	2	0.00402 [0.0005] JS+	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
100-42-5	8260D	Styrene	mg/L	1.2	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
79-01-6	8260D	TCE	mg/L	0.0028	0.000335 [0.0005] J,JS+	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
98-06-6	8260D	tert-Butylbenzene	mg/L	0.69	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
108-88-3	8260D	Toluene	mg/L	1.1	0.00163 [0.0005] JS+	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
542-75-6	8260D	trans-1,3-Dichloropropene	mg/L	0.0047	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
156-60-5	8260D	trans-DCE	mg/L	0.36	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
75-01-4	8260D	VC	mg/L	0.00019	ND [0.000075]	ND [0.000075]	ND [0.000075]	ND [0.000075]	ND [0.000075]
108-05-4	8260D	Vinyl Acetate	mg/L	0.41	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
1330-20-7	8260D	Xylenes	mg/L	0.19	0.176 [0.0015] JS+	ND [0.0015]	ND [0.0015]	ND [0.0015]	ND [0.0015]
106-93-4	8260D-SIM	EDB	mg/L	0.000075	ND [0.0000025]	ND [0.0000025]	ND [0.0000025]	ND [0.0000025]	ND [0.0000025]
	8270DSIM	1-Methylnaphthalene	mg/L	0.011	ND [0.0000232] JS-	0.0000189 [0.0000236] J,B	ND [0.0000236]	0.0000174 [0.0000245] J,B	0.0000187 [0.000024] J,B
	8270DSIM	2-Methylnaphthalene	mg/L	0.036	ND [0.0000232] JS-	0.0000213 [0.0000236] J,B	0.0000167 [0.0000236] J,B	0.0000249 [0.0000245] J,B	0.0000267 [0.000024] J,B
83-32-9	8270DSIM	Acenaphthene	mg/L	0.53	ND [0.0000232] JS-	ND [0.0000236]	ND [0.0000236]	ND [0.0000245]	ND [0.000024]
	8270DSIM	Acenaphthylene	mg/L	0.26	ND [0.0000232] JS-	ND [0.0000236]	ND [0.0000236]	ND [0.0000245]	ND [0.000024]
120-12-7	8270DSIM	Anthracene	mg/L	0.043	ND [0.0000232] JS-	ND [0.0000236]	ND [0.0000236]	ND [0.0000245]	ND [0.000024]
56-55-3	8270DSIM	Benzo(a)anthracene	mg/L	0.0003	ND [0.0000232] JS-	ND [0.0000236]	ND [0.0000236]	ND [0.0000245]	ND [0.000024]
	8270DSIM	Benzo(a)pyrene	mg/L	0.00025	ND [0.00000925] JS-	ND [0.0000945]	ND [0.00000945]	ND [0.0000098]	ND [0.0000096]
	8270DSIM	Benzo(b)fluoranthene	mg/L	0.0025	ND [0.0000232] JS-	ND [0.0000236]	ND [0.0000236]	ND [0.0000245]	ND [0.000024]
191-24-2	8270DSIM	Benzo(g,h,i)perylene	mg/L	0.00026	ND [0.0000232] JS-	ND [0.0000236]	ND [0.0000236]	ND [0.0000245]	ND [0.000024]
207-08-9	8270DSIM	Benzo(k)fluoranthene	mg/L	0.0008	ND [0.0000232] JS-	ND [0.0000236]	ND [0.0000236]	ND [0.0000245]	ND [0.000024]
218-01-9	8270DSIM	Chrysene	mg/L	0.002	ND [0.0000232] JS-	ND [0.0000236]	ND [0.0000236]	ND [0.0000245]	ND [0.000024]
53-70-3	8270DSIM	Dibenzo(a,h)anthracene	mg/L	0.00025	ND [0.00000925] JS-	ND [0.0000945]	ND [0.0000945]	ND [0.0000098]	ND [0.0000096]
206-44-0	8270DSIM	Fluoranthene	mg/L	0.26	ND [0.0000232] JS-	ND [0.0000236]	ND [0.0000236]	0.0000171 [0.0000245] J,B	ND [0.000024]
	8270DSIM	Fluorene	mg/L	0.29	ND [0.0000232] JS-	ND [0.0000236]	ND [0.0000236]	ND [0.0000245]	ND [0.000024]
193-39-5	8270DSIM	Indeno(1,2,3-cd)pyrene	mg/L	0.00019	ND [0.0000232] JS-	ND [0.0000236]	ND [0.0000236]	ND [0.0000245]	ND [0.000024]

			L	ocation ID:	TW01	TW02	TW02	TW03	TW04
				Sample ID:	22MAH-TW01-GW	22MAH-TW02-GW	22MAH-TW02-GWA	22MAH-TW03-GW	22MAH-TW04-GW
				SDG:	1225222/223	1225222/223	1225222/223	1225222/223	1225222/223
			Lab	Sample ID:	1225222005/1225223006	1225222006/1225223007	1225222007/1225223008	1225222003/1225223003	1225222002/1225223002
			Sample	Date/Time:	08/26/2022 16:10:00	08/26/2022 09:30:00	08/26/2022 09:30:00	08/25/2022 16:40:00	08/25/2022 11:45:00
			ı	_aboratory:	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental
				QA/QC:	Primary Sample	Primary Sample	Field Duplicate	Primary Sample	Primary Sample
CAS Number	Method	Analyte	Units	GCL ¹					
91-20-3	8270DSIM	Naphthalene	mg/L	0.0017	ND [0.0000463] JS-	ND [0.0000471]	ND [0.0000471]	ND [0.000049]	ND [0.0000481]
85-01-8			0.17	ND [0.0000463] JS-	ND [0.0000471]	ND [0.0000471]	0.0000309 [0.000049] J,B	0.0000411 [0.0000481] J,B	
129-00-0	8270DSIM	Pyrene	mg/L	0.12	ND [0.0000232] JS-	ND [0.0000236]	ND [0.0000236]	0.0000281 [0.0000245] J	ND [0.000024]

18 AAC 75. Table C Groundwater Human Health Cleanup Levels (ADEC 2021)

Bold = Result exceeds ADEC Groundwater Human Health Levels.

– = no criteria/not analyzed

[] = limit of detection (LOD)

CAS = Chemical Abstracts Service

GCL/SCL = groundwater/soil cleanup level

ID = identification

mg/L = milligram(s) per liter

ND = nondetect

QA/QC = quality assurance/quality control

SDG = sample delivery group

J = The result is an estimated value because it was greater than the DL but less than the limit of quantitation.

E = The result was nondetect (ND) and the limit of detection (LOD) exceeds the GCL or SCL.

B = The analyte was detected in the method blank, trip blank or equipment blank and the

concentration in the sample did not exceed the blank concentration by a factor of 5. JL = The result was an estimated value biased high (+) or low (-) because the analyte failed

recovery criteria in the LCS or LCSD sample or both.

JS = The result was an estimated value biased high (+) or low (-) because at least one surrogate failed recovery criteria for the sample.

				ocation ID:	TMCD	TDOANA
					TW6B	TB01W
				Sample ID: SDG:	22MAH-TW6b-GW	22MAH-TB01W
			1 . 1		1225222/223	1225223
				Sample ID:	1225222004/1225223004	1225223005
				Date/Time:	08/27/2022 15:30:00	08/25/2022 08:00:00
				Laboratory:	SGS Environmental	SGS Environmental
				QA/QC:	Primary Sample	Trip Blank
CAS Number	Method	Analyte	Units	GCL ¹		
-	AK101	GRO	mg/L	2.2	ND [0.05]	ND [0.05]
-	AK102	DRO	mg/L	1.5	ND [0.288]	-
-	AK103	RRO	mg/L	1.1	0.288 [0.24] J	-
7439-92-1	6020B	Lead	mg/L	0.015	0.00173 [0.0005]	-
630-20-6	8260D	1,1,1,2-Tetrachloroethane	mg/L	0.0057	ND [0.00025]	ND [0.00025]
71-55-6 79-34-5	8260D 8260D	1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane	mg/L ma/L	8 0.00076	ND [0.0005] ND [0.00025]	ND [0.0005] ND [0.00025]
79-34-5 79-00-5	8260D	1,1,2,7-1 etrachioroethane	mg/L	0.00076	ND [0.00025]	ND [0.00025]
75-34-3	8260D	1,1-Dichloroethane	mg/L	0.00041	ND [0.0002] ND [0.0005]	ND [0.0002] ND [0.0005]
75-35-4	8260D	1,1-Dichloroethene	mg/L	0.020	ND [0.0005]	ND [0.0005]
563-58-6	8260D	1,1-Dichloropropene	mg/L	-	ND [0.0005]	ND [0.0005]
96-18-4	8260D	1,2,3-TCP	mg/L	0.0000075	ND [0.0005] E	ND [0.0005] E
87-61-6	8260D	1,2,3-Trichlorobenzene	mg/L	0.007	ND [0.0005]	ND [0.0005]
95-63-6	8260D	1,2,4-TMB	mg/L	0.056	ND [0.0005]	ND [0.0005]
120-82-1	8260D	1,2,4-Trichlorobenzene	mg/L	0.004	ND [0.0005]	ND [0.0005]
96-12-8	8260D	1,2-Dibromo-3-chloropropane	mg/L	-	ND [0.005]	ND [0.005]
95-50-1	8260D	1,2-Dichlorobenzene	mg/L	0.3	ND [0.0005]	ND [0.0005]
107-06-2	8260D	1,2-Dichloroethane	mg/L	0.0017	ND [0.00025]	ND [0.00025]
78-87-5	8260D	1,2-Dichloropropane	mg/L	0.0082	ND [0.0005]	ND [0.0005]
108-67-8	8260D	1,3,5-TMB	mg/L	0.06	ND [0.0005]	ND [0.0005]
541-73-1 142-28-9	8260D 8260D	1,3-Dichlorobenzene 1,3-Dichloropropane	mg/L	0.3	ND [0.0005] ND [0.00025]	ND [0.0005] ND [0.00025]
106-46-7	8260D	1,4-Dichlorobenzene	mg/L mg/L	0.0048	ND [0.00025]	ND [0.00025]
594-20-7	8260D	2,2-Dichloropropane	mg/L	-	ND [0.00023]	ND [0.00023]
95-49-8	8260D	2-Chlorotoluene	mg/L	_	ND [0.0005]	ND [0.0005]
591-78-6	8260D	2-Hexanone	mg/L	0.038	ND [0.005]	ND [0.005]
106-43-4	8260D	4-Chlorotoluene	mg/L	-	ND [0.0005]	ND [0.0005]
108-10-1	8260D	4-Methyl-2-Pentanone	mg/L	6.3	ND [0.005]	ND [0.005]
71-43-2	8260D	Benzene	mg/L	0.0046	ND [0.0002]	ND [0.0002]
108-86-1	8260D	Bromobenzene	mg/L	0.062	ND [0.0005]	ND [0.0005]
74-97-5	8260D	Bromochloromethane	mg/L	-	ND [0.0005]	ND [0.0005]
75-27-4	8260D	Bromodichloromethane	mg/L	0.0013	ND [0.00025]	ND [0.00025]
75-25-2	8260D	Bromoform	mg/L	0.033	ND [0.0005]	ND [0.0005]
74-83-9 75-15-0	8260D 8260D	Bromomethane Carbon Disulfide	mg/L mg/L	0.0075 0.81	ND [0.003] ND [0.005]	ND [0.003] ND [0.005]
56-23-5	8260D	Carbon Distillide Carbon Tetrachloride	mg/L	0.0046	ND [0.005]	ND [0.005] ND [0.0005]
108-90-7	8260D	Chlorobenzene	mg/L	0.0046	ND [0.0005]	ND [0.0005] ND [0.00025]
75-00-3	8260D	Chloroethane	mg/L	21	ND [0.00023]	ND [0.00023]
67-66-3	8260D	Chloroform	mg/L	0.0022	0.000703 [0.0005] J	ND [0.0005]
74-87-3	8260D	Chloromethane	mg/L	0.19	ND [0.0005]	ND [0.0005]
542-75-6	8260D	cis-1,3-Dichloropropene	mg/L	0.0047	ND [0.00025]	ND [0.00025]
156-59-2	8260D	cis-DCE	mg/L	0.036	ND [0.0005]	ND [0.0005]
98-82-8	8260D	Cumene	mg/L	0.45	ND [0.0005]	ND [0.0005]
124-48-1	8260D	Dibromochloromethane	mg/L	0.0087	ND [0.00025]	ND [0.00025]
74-95-3	8260D	Dibromomethane	mg/L	0.0083	ND [0.0005]	ND [0.0005]
106-93-4	8260D	EDB	mg/L	0.000075	ND [0.0000375]	ND [0.0000375]
100-41-4	8260D	Ethylbenzene	mg/L	0.015	ND [0.0005]	ND [0.0005]
75-69-4	8260D	Freon-11	mg/L	5.2	ND [0.0005]	ND [0.0005]
_	8260D	Freon-113	mg/L	-	ND [0.005]	ND [0.005]

				ocation ID:	TW6B	TB01W
			_	Sample ID:	22MAH-TW6b-GW	22MAH-TB01W
				SDG:	1225222/223	1225223
			Lah	Sample ID:	1225222004/1225223004	1225223005
				Date/Time:	08/27/2022 15:30:00	08/25/2022 08:00:00
			•	Laboratory:	SGS Environmental	SGS Environmental
				•		
				QA/QC:	Primary Sample	Trip Blank
CAS Number	Method	Analyte	Units	GCL ¹		
75-71-8	8260D	Freon-12	mg/L	0.2	ND [0.0005]	ND [0.0005]
87-68-3	8260D	Hexachlorobutadiene	mg/L	0.0014	ND [0.0005]	ND [0.0005]
-	8260D	m,p-Xylene	mg/L	-	ND [0.001]	ND [0.001]
78-93-3	8260D	MEK	mg/L	5.6	ND [0.005]	ND [0.005]
75-09-2	8260D	Methylene Chloride	mg/L	0.11	ND [0.005]	ND [0.005]
1634-04-4	8260D	MTBE	mg/L	0.14	ND [0.005]	ND [0.005]
91-20-3	8260D	Naphthalene	mg/L	0.0017	ND [0.0005]	ND [0.0005]
104-51-8	8260D	n-Butylbenzene	mg/L	1	ND [0.0005]	ND [0.0005]
-	8260D	o-Xylene	mg/L	-	ND [0.0005]	ND [0.0005]
127-18-4	8260D	PCE	mg/L	0.041	ND [0.0005]	ND [0.0005]
99-87-6	8260D	p-Cymene	mg/L	-	ND [0.0005]	ND [0.0005]
103-65-1	8260D	Propylbenzene	mg/L	0.66	ND [0.0005]	ND [0.0005]
135-98-8	8260D	sec-Butylbenzene	mg/L	2	ND [0.0005]	ND [0.0005]
100-42-5	8260D	Styrene	mg/L	1.2	ND [0.0005]	ND [0.0005]
79-01-6	8260D	TCE	mg/L	0.0028	ND [0.0005]	ND [0.0005]
98-06-6	8260D	tert-Butylbenzene	mg/L	0.69	ND [0.0005]	ND [0.0005]
108-88-3	8260D	Toluene	ma/L	1.1	ND [0.0005]	ND [0.0005]
542-75-6	8260D	trans-1,3-Dichloropropene	mg/L	0.0047	ND [0.0005]	ND [0.0005]
156-60-5	8260D	trans-DCE	mg/L	0.36	ND [0.0005]	ND [0.0005]
75-01-4	8260D	VC	mg/L	0.00019	ND [0.000075]	ND [0.000075]
108-05-4	8260D	Vinyl Acetate	ma/L	0.41	ND [0.005]	ND [0.005]
1330-20-7	8260D	Xylenes	mg/L	0.19	ND [0.0015]	ND [0.0015]
106-93-4	8260D-SIM	EDB	ma/L	0.000075	ND [0.0000025]	ND [0.0000025]
90-12-0	8270DSIM	1-Methylnaphthalene	mg/L	0.011	0.0000249 [0.0000245] J.B	-
91-57-6	8270DSIM	2-Methylnaphthalene	ma/L	0.036	0.0000322 [0.0000245] J,B	-
83-32-9	8270DSIM	Acenaphthene	mg/L	0.53	ND [0.0000245]	-
208-96-8	8270DSIM	Acenaphthylene	mg/L	0.26	ND [0.0000245]	-
120-12-7	8270DSIM	Anthracene	mg/L	0.043	ND [0.0000245]	-
56-55-3	8270DSIM	Benzo(a)anthracene	mg/L	0.0003	ND [0.0000245]	-
50-32-8	8270DSIM	Benzo(a)pyrene	mg/L	0.00025	ND [0.0000098]	-
205-99-2	8270DSIM	Benzo(b)fluoranthene	mg/L	0.0025	ND [0.0000245]	-
191-24-2	8270DSIM	Benzo(g,h,i)perylene	mg/L	0.00026	ND [0.0000245]	-
207-08-9	8270DSIM	Benzo(k)fluoranthene	mg/L	0.0008	ND [0.0000245]	-
218-01-9	8270DSIM	Chrysene	mg/L	0.002	ND [0.0000245]	-
53-70-3	8270DSIM	Dibenzo(a,h)anthracene	mg/L	0.00025	ND [0.0000098]	-
206-44-0	8270DSIM	Fluoranthene	mg/L	0.26	ND [0.0000245]	
86-73-7	8270DSIM	Fluorene	mg/L	0.29	ND [0.0000245]	
193-39-5	8270DSIM	Indeno(1,2,3-cd)pyrene	mg/L	0.00019	ND [0.0000245]	

			L	ocation ID:	TW6B	TB01W
				Sample ID:	22MAH-TW6b-GW	22MAH-TB01W
				SDG:	1225222/223	1225223
			Lab	Sample ID:	1225222004/1225223004	1225223005
			Sample	Date/Time:	08/27/2022 15:30:00	08/25/2022 08:00:00
			1	Laboratory:	SGS Environmental	SGS Environmental
				QA/QC:	Primary Sample	Trip Blank
CAS Number	Method	Analyte	Units	GCL ¹		
91-20-3	8270DSIM	Naphthalene	mg/L	0.0017	ND [0.000049]	-
85-01-8	8270DSIM	Phenanthrene	mg/L	0.17	ND [0.000049]	-
129-00-0	8270DSIM	Pyrene	mg/L	0.12	ND [0.0000245]	-

118 AAC 75. Table C Groundwater Human Health Cleanup Levels (ADEC 2021)

Bold = Result exceeds ADEC Groundwater Human Health Levels.

- = no criteria/not analyzed

[] = limit of detection (LOD)

CAS = Chemical Abstracts Service

GCL/SCL = groundwater/soil cleanup level

ID = identification

mg/L = milligram(s) per liter

ND = nondetect

QA/QC = quality assurance/quality control

SDG = sample delivery group

J = The result is an estimated value because it was greater than the DL but less than the limit of quantitation.

E = The result was nondetect (ND) and the limit of detection (LOD) exceeds the GCL or SCL.

B = The analyte was detected in the method blank, trip blank or equipment blank and the

concentration in the sample did not exceed the blank concentration by a factor of 5.

JL = The result was an estimated value biased high (+) or low (-) because the analyte failed recovery criteria in the LCS or LCSD sample or both.

JS = The result was an estimated value biased high (+) or low (-) because at least one surrogate failed recovery criteria for the sample.

					Location ID:	SB3b	SB3b	SB6b	SB6b
					Sample ID:	22MAH-SB3b-SO2-4	22MAH-SB3b-SO9 5 10	22MAH-SB6b-SO2-4	22MAH-SB6b-SO9_5-10
					SDG:	1225240	1225240	1225240	1225240
					Lab Sample ID:	1225240011	1225240010	1225240002	1225240001
					Sample Date/Time:	08/26/2022 15:30:00	08/26/2022 15:15:00	08/24/2022 12:18:00	08/24/2022 11:55:00
					Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental
					QA/QC:	Primay Sample	Primay Sample	Primay Sample	Primay Sample
CAS Number	Method	Analyte	Units	SCL ¹	20 Times TCLP ²	, ,	, ,	, ,	, ,
-	A2540G	Total Solids	Percent	-	-	90.7	84	72.5	86.8
-	AK101	GRO	mg/kg	300	-	2.55 [2.31] J,B	3.81 [3.51] J,B	3.1 [3.61] J,B	1.83 [2.16] J,B
-	AK102	DRO	mg/kg	250	-	ND [10.9]	ND [11.9]	24.3 [13.8] J,B	33.6 [11.5] B
-	AK103	RRO	mg/kg	10000	-	59.2 [55] J	ND [59.5]	211 [69]	218 [57.5]
7439-92-1	6020B	Lead	mg/kg	400	100	5.3 [0.109]	3.39 [0.116]	9.79 [0.132]	2.95 [0.109]
630-20-6	8260D	1,1,1,2-Tetrachloroethane	mg/kg	0.022	-	ND [0.0184]	ND [0.0281] E	ND [0.0289] E	ND [0.0173]
71-55-6	8260D	1,1,1-Trichloroethane	mg/kg	32	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
79-34-5	8260D	1,1,2,2-Tetrachloroethane	mg/kg	0.003	-	ND [0.00185]	ND [0.00281]	ND [0.00288]	ND [0.00173]
79-00-5	8260D	1,1,2-Trichloroethane	mg/kg	0.0014	-	ND [0.000925]	ND [0.00141] E	ND [0.00144] E	ND [0.000865]
75-34-3	8260D	1,1-Dichloroethane	mg/kg	0.092	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
75-35-4	8260D	1,1-Dichloroethene	mg/kg	1.2	14	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
563-58-6	8260D	1,1-Dichloropropene	mg/kg	-	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
96-18-4	8260D	1,2,3-TCP	mg/kg	0.000031	-	ND [0.00185] E	ND [0.00281] E	ND [0.00288] E	ND [0.00173] E
87-61-6	8260D	1,2,3-Trichlorobenzene	mg/kg	0.15	-	ND [0.0925]	ND [0.141]	ND [0.144]	ND [0.0865]
95-63-6	8260D	1,2,4-TMB	mg/kg	0.61	-	ND [0.0925]	ND [0.141]	ND [0.144]	ND [0.0865]
120-82-1	8260D	1,2,4-Trichlorobenzene	mg/kg	0.082	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
96-12-8	8260D	1,2-Dibromo-3-chloropropane	mg/kg	-	-	ND [0.0925] E	ND [0.141] E	ND [0.144] E	ND [0.0865] E
95-50-1	8260D	1,2-Dichlorobenzene	mg/kg	2.4	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
107-06-2	8260D	1,2-Dichloroethane	mg/kg	0.0055	10	ND [0.00185]	ND [0.00281]	ND [0.00288]	ND [0.00173]
78-87-5	8260D	1,2-Dichloropropane	mg/kg	0.03	-	ND [0.00925]	ND [0.0141]	ND [0.0144]	ND [0.00865]
108-67-8	8260D	1,3,5-TMB	mg/kg	0.66	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
541-73-1	8260D	1,3-Dichlorobenzene	mg/kg	2.3	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
142-28-9	8260D	1,3-Dichloropropane	mg/kg	1600	-	ND [0.00925]	ND [0.0141]	ND [0.0144]	ND [0.00865]
106-46-7	8260D	1,4-Dichlorobenzene	mg/kg	0.037	150	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
594-20-7	8260D	2,2-Dichloropropane	mg/kg	-	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
95-49-8	8260D	2-Chlorotoluene	mg/kg	-	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
591-78-6	8260D	2-Hexanone	mg/kg	0.11	-	ND [0.111] E	ND [0.169] E	ND [0.173] E	ND [0.104]
106-43-4	8260D	4-Chlorotoluene	mg/kg	-	-	ND [0.0184]	ND [0.0281]	ND [0.0289]	ND [0.0173]
108-10-1	8260D	4-Methyl-2-Pentanone	mg/kg	18	-	ND [0.231]	ND [0.351]	ND [0.361]	ND [0.216]
67-64-1	8260D	Acetone	mg/kg	38	-	ND [0.231]	ND [0.351]	ND [0.361]	ND [0.216]
71-43-2	8260D	Benzene	mg/kg	0.022	10	ND [0.0116]	ND [0.0176]	ND [0.0181]	ND [0.0108]
108-86-1	8260D	Bromobenzene	mg/kg	0.36	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
74-97-5	8260D	Bromochloromethane	mg/kg	-	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
75-27-4	8260D	Bromodichloromethane	mg/kg	0.0043	-	ND [0.00185]	ND [0.00281]	ND [0.00288]	ND [0.00173]
75-25-2	8260D	Bromoform	mg/kg	0.1	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
74-83-9	8260D	Bromomethane	mg/kg	0.024	-	ND [0.0184]	ND [0.0281] E	ND [0.0289] E	ND [0.0173]
75-15-0	8260D	Carbon Disulfide	mg/kg	2.9	- 10	ND [0.0925]	ND [0.141]	ND [0.144]	ND [0.0865]
56-23-5	8260D 8260D	Carbon Tetrachloride	mg/kg	0.021 0.46	2000	ND [0.0116]	ND [0.0176]	ND [0.0181]	ND [0.0108]
108-90-7		Chlorobenzene	mg/kg	72		ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
75-00-3	8260D	Chloroethane	mg/kg		120	ND [0.185]	ND [0.281]	ND [0.289]	ND [0.173]
67-66-3	8260D	Chloroform	mg/kg	0.0071	120	ND [0.00555]	ND [0.0084] E	ND [0.00865] E	ND [0.0052]
74-87-3	8260D 8260D	Chloromethane	mg/kg	0.61	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
- 156-59-2	8260D 8260D	cis-1,3-Dichloropropene cis-DCE	mg/kg	0.12	-	ND [0.0116] ND [0.0231]	ND [0.0176] ND [0.0351]	ND [0.0181] ND [0.036]	ND [0.0108] ND [0.0216]
98-82-8	8260D 8260D	CIS-DCE Cumene	mg/kg mg/kg	5.6	-	ND [0.0231] ND [0.0231]	ND [0.0351] ND [0.0351]	ND [0.036] ND [0.036]	ND [0.0216] ND [0.0216]
98-82-8 124-48-1	8260D 8260D	Dibromochloromethane		0.0027	-	ND [0.0231] ND [0.00462] E	ND [0.0351] ND [0.007] E	ND [0.036] ND [0.0072] E	ND [0.0216] ND [0.00432] E
74-48-1 74-95-3	8260D 8260D	Dibromocnioromethane Dibromomethane	mg/kg mg/kg	0.0027	-	ND [0.00462] E ND [0.0231]	ND [0.007] E ND [0.0351] E	ND [0.0072] E ND [0.036] E	ND [0.00432] E ND [0.0216]
106-93-4	8260D	EDB	mg/kg	0.025	-	ND [0.0231] ND [0.00139] E	ND [0.0351] E ND [0.00211] E	ND [0.036] E ND [0.00217] E	ND [0.0216] ND [0.00129] E
100-93-4	8260D	Ethylbenzene	mg/kg	0.00024	-	ND [0.00139] E ND [0.0231]	ND [0.00211] E ND [0.0351]	ND [0.00217] E ND [0.036]	ND [0.00129] E ND [0.0216]
100-41-4	02000	Luiyibelizelle	my/kg	U. 13		ו פבט.טן טווו	ןו פפטיטן שאו	נספטיטן טואו	[טו בט.ט] טויו

						ı	ı		
					Location ID:	SB3b	SB3b	SB6b	SB6b
					Sample ID:	22MAH-SB3b-SO2-4	22MAH-SB3b-SO9_5_10	22MAH-SB6b-SO2-4	22MAH-SB6b-SO9_5-10
					SDG:	1225240	1225240	1225240	1225240
					Lab Sample ID:	1225240011	1225240010	1225240002	1225240001
					Sample Date/Time:	08/26/2022 15:30:00	08/26/2022 15:15:00	08/24/2022 12:18:00	08/24/2022 11:55:00
					Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental
					QA/QC:	Primay Sample	Primay Sample	Primay Sample	Primay Sample
CAS Number	Method	Analyte	Units	SCL ¹	20 Times TCLP ²				
75-69-4	8260D	Freon-11	mg/kg	41	-	ND [0.0461]	ND [0.07]	ND [0.072]	ND [0.0432]
-	8260D	Freon-113	mg/kg	-	-	ND [0.0925]	ND [0.141]	ND [0.144]	ND [0.0865]
75-71-8	8260D	Freon-12	mg/kg	3.9	-	ND [0.0925]	ND [0.141]	ND [0.144]	ND [0.0865]
87-68-3	8260D	Hexachlorobutadiene	mg/kg	0.02	10	ND [0.0184]	ND [0.0281] E	ND [0.0289] E	ND [0.0173]
-	8260D	m,p-Xylene	mg/kg	-	-	0.0372 [0.0461] J	ND [0.07]	ND [0.072]	ND [0.0432]
78-93-3	8260D	MEK	mg/kg	15	4000	ND [0.231]	ND [0.351]	ND [0.361]	ND [0.216]
75-09-2	8260D	Methylene Chloride	mg/kg	0.33	-	ND [0.0925]	ND [0.141]	ND [0.144]	ND [0.0865]
1634-04-4	8260D	MTBE	mg/kg	0.4	-	ND [0.0925]	ND [0.141]	ND [0.144]	ND [0.0865]
91-20-3	8260D	Naphthalene	mg/kg	0.038	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
104-51-8	8260D	n-Butylbenzene	mg/kg	20	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
-	8260D	o-Xylene	mg/kg	-	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
127-18-4	8260D	PCE	mg/kg	0.19	14	ND [0.0116]	ND [0.0176]	ND [0.0181]	ND [0.0108]
99-87-6	8260D	p-Cymene	mg/kg	-	-	ND [0.074]	ND [0.113]	ND [0.116]	ND [0.069]
103-65-1	8260D	Propylbenzene	mg/kg	9.1	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
135-98-8	8260D	sec-Butylbenzene	mg/kg	28	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
100-42-5	8260D	Styrene	mg/kg	10	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
79-01-6	8260D	TCE	mg/kg	0.011	10	ND [0.00925]	ND [0.0141] E	ND [0.0144] E	ND [0.00865]
98-06-6	8260D	tert-Butylbenzene	mg/kg	11	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
108-88-3	8260D	Toluene	mg/kg	6.7	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
542-75-6	8260D	trans-1,3-Dichloropropene	mg/kg	0.018	-	ND [0.0116]	ND [0.0176]	ND [0.0181] E	ND [0.0108]
156-60-5	8260D	trans-DCE	mg/kg	1.3	-	ND [0.0231]	ND [0.0351]	ND [0.036]	ND [0.0216]
75-01-4	8260D	VC	mg/kg	0.0008	4	ND [0.00074]	ND [0.00113] E	ND [0.00116] E	ND [0.00069]
108-05-4	8260D	Vinyl Acetate	mg/kg	1.1	-	ND [0.0925]	ND [0.141]	ND [0.144]	ND [0.0865]
1330-20-7	8260D	Xylenes	mg/kg	1.5	-	ND [0.069]	ND [0.106]	ND [0.108]	ND [0.065]
106-93-4	8260D-SIM	EDB	mg/kg	0.00024	-	ND [0.000116]	ND [0.000175]	ND [0.00018]	ND [0.000108]
90-12-0	8270DSIM	1-Methylnaphthalene	mg/kg	0.41	-	ND [0.0136]	ND [0.0148]	ND [0.0171]	ND [0.0143]
91-57-6	8270DSIM	2-Methylnaphthalene	mg/kg	1.3	-	ND [0.0136]	ND [0.0148]	ND [0.0171]	ND [0.0143]
83-32-9	8270DSIM	Acenaphthene	mg/kg	37	-	ND [0.0136]	ND [0.0148]	ND [0.0171]	ND [0.0143]
208-96-8	8270DSIM	Acenaphthylene	mg/kg	18	-	ND [0.0136]	ND [0.0148]	ND [0.0171]	ND [0.0143]
120-12-7	8270DSIM	Anthracene	mg/kg	390	-	ND [0.0136]	ND [0.0148]	ND [0.0171]	ND [0.0143]
56-55-3 50-32-8	8270DSIM 8270DSIM	Benzo(a)anthracene	mg/kg	0.7 1.5	-	ND [0.0136] ND [0.0136]	ND [0.0148]	ND [0.0171] ND [0.0171]	ND [0.0143]
		Benzo(a)pyrene	mg/kg		-		ND [0.0148]		ND [0.0143]
205-99-2	8270DSIM	Benzo(b)fluoranthene	mg/kg	15 2300	-	ND [0.0136]	ND [0.0148]	ND [0.0171]	ND [0.0143]
191-24-2	8270DSIM	Benzo(g,h,i)perylene	mg/kg		-	ND [0.0136]	ND [0.0148]	ND [0.0171]	ND [0.0143]
207-08-9	8270DSIM	Benzo(k)fluoranthene	mg/kg	150 600	-	ND [0.0136]	ND [0.0148]	ND [0.0171]	ND [0.0143]
218-01-9	8270DSIM	Chrysene	mg/kg		-	ND [0.0136]	ND [0.0148]	ND [0.0171]	ND [0.0143]
53-70-3	8270DSIM	Dibenzo(a,h)anthracene	mg/kg	1.5 590	-	ND [0.0136]	ND [0.0148]	ND [0.0171]	ND [0.0143]
206-44-0	8270DSIM	Fluoranthene	mg/kg	36	-	ND [0.0136]	ND [0.0148]	ND [0.0171]	ND [0.0143]
86-73-7	8270DSIM	Fluorene	mg/kg		-	ND [0.0136]	ND [0.0148]	ND [0.0171]	ND [0.0143]
193-39-5	8270DSIM	Indeno(1,2,3-cd)pyrene	mg/kg	15	-	ND [0.0136]	ND [0.0148]	ND [0.0171]	ND [0.0143]

					Location ID:	SB3b	SB3b	SB6b	SB6b
					Sample ID:	22MAH-SB3b-SO2-4	22MAH-SB3b-SO9_5_10	22MAH-SB6b-SO2-4	22MAH-SB6b-SO9_5-10
					SDG:	1225240	1225240	1225240	1225240
					Lab Sample ID:	1225240011	1225240010	1225240002	1225240001
					Sample Date/Time:	08/26/2022 15:30:00	08/26/2022 15:15:00	08/24/2022 12:18:00	08/24/2022 11:55:00
					Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental
					QA/QC:	Primay Sample	Primay Sample	Primay Sample	Primay Sample
CAS Number	Method	Analyte	Units	SCL ¹	20 Times TCLP ²				
91-20-3	8270DSIM	Naphthalene	mg/kg	0.038	-	ND [0.0109]	ND [0.0118]	ND [0.0137]	ND [0.0114]
85-01-8	8270DSIM	Phenanthrene	mg/kg	39	-	ND [0.0136]	ND [0.0148]	ND [0.0171]	ND [0.0143]
129-00-0	8270DSIM	Pyrene	mg/kg	87	-	ND [0.0136]	ND [0.0148]	ND [0.0171]	ND [0.0143]

Notes:

²40 CFR 261, Appendix II, 1993 ed., as amended by 58 FR 46040, August 31, 1993.

Bold = Result exceeds ADEC Most Stringent.

- = no criteria/not analyzed

[] = limit of detection (LOD)

CAS = Chemical Abstracts Service

GCL/SCL = groundwater/soil cleanup level

ID = identification

mg/kg = milligram(s) per kilogram

ND = nondetect

QA/QC = quality assurance/quality control

SDG = sample delivery group

TCLP = Toxicity Characteristic Leaching Procedure

J = The result is an estimated value because it was greater than the DL but less than the limit of quantitation.

E = The result was nondetect (ND) and the limit of detection (LOD) exceeds the GCL or SCL.

B = The analyte was detected in the method blank, trip blank or equipment blank and the concentration in the sample did not exceed the blank concentration by a factor of 5.

JL = The result was an estimated value biased high (+) or low (-) because the analyte failed recovery criteria in the LCS or LCSD sample or both.

¹ ADEC Table B1 and B2, Most stringent of Human Health (Under 40 inch zone) and migration to groundwater (ADEC 2021).

CAS Number Method	
SDC: 12552400	SB8b
Lab Sample DataTime Sample DataTime Laboratory La	22MAH-SB8b-SO6
CAS Number Method Analyte Units SCI. 20 Times TCI.P	1225240
CAS Number	1225240012
CAS Number Method Analyte Units SCL 20 Times TCLP	08/27/2022 09:00:0
CAS Number Method Analyte Units SOL 20 Times TCLP	SGS Environmenta
- A2540G Total Solids Percent	Primay Sample
- A2540G Total Solids Percent	
- MX102 DRO mg/kg 250 - 31.4 [13.7] B 16.4 [13.4] J.B 19.6 [13.5] J.B 17439-92-1 6020B Lead mg/kg 4000 - 310 [68.5] 150 [67] 178 [67.5] 7439-92-1 6020B Lead mg/kg 4000 100 6.15 [0.137] 12.5 [0.13] 12.7 [0.126] 630-20-6 28260D 1,1,1,2 Tetachloroethane mg/kg 4002 - ND [0.0319] E ND [0.0284] E ND [0.0283] E 71-55-6 8260D 1,1,1,1 Tetachloroethane mg/kg 32 - ND [0.0319] ND [0.0355] ND [0.0329] 79-90-5 8260D 1,1,2 Tetachloroethane mg/kg 40.03 - ND [0.00319] ND [0.0355] ND [0.0329] 79-90-5 8260D 1,1,2 Tetachloroethane mg/kg 40.03 - ND [0.0014] E ND [0.00284] ND [0.00284] ND [0.00283] 79-90-5 8260D 1,1-10-bitoloroethane mg/kg 40.03 - ND [0.0018] E ND [0.00142] E ND [0.00141] E ND [0.00284] ND [0.00289] 75-33-4 8260D 1,1-10-bitoloroethane mg/kg 40.09 - ND [0.039] ND [0.0355] ND [0.0329] 75-33-4 8260D 1,1-10-bitoloroethane mg/kg 40.92 - ND [0.039] ND [0.0355] ND [0.0329] 75-35-4 8260D 1,1-2-bitoloroethane mg/kg 40.12 14 ND [0.039] ND [0.0355] ND [0.0329] 96-18-4 8260D 1,1-2-bitoloroethane mg/kg 40.12 14 ND [0.039] ND [0.0355] ND [0.0329] 96-18-4 8260D 1,2-3-TCP mg/kg 40.050 1.2 ND [0.000031] E ND [0.00318] E ND [0.00284] E ND [0.00285] E ND [0.00289] 96-18-4 8260D 1,2-3-TcP mg/kg 40.61 - ND [0.0031] E ND [0.00284] E ND [0.00283] E ND [0.00329] 96-18-4 8260D 1,2-4-TMB mg/kg 40.61 - ND [0.0031] E ND [0.0031] E ND [0.00284] E ND [0.00283] E ND [0.00284] E ND [0.00283] E ND [0.00284] E ND [94.8
- MX102 DRO mg/kg 250 - 31.4 [13.7] B 16.1 [13.4] J.B 19.6 [13.5] J.B 1.743992-1 6020B Lead mg/kg 4000 - 310 [68.5] 150 [67] 178 [67.5] 743992-1 6020B Lead mg/kg 400 100 6.15 [0.137] 12.5 [0.13] 12.7 [0.126] 630-20-6 2260D 1.1,1.2 Tetrachrorethane mg/kg 0.022 - ND [0.0313] E ND [0.0284] E ND [0.0283] E 71-55-6 8260D 1.1,1.2 Tetrachrorethane mg/kg 0.022 - ND [0.0313] E ND [0.0284] E ND [0.0283] E 71-55-6 8260D 1.1,1.2 Tetrachrorethane mg/kg 0.03 - ND [0.0031] E ND [0.00284] ND [0.0329] ND [0.0355] ND [0.0329] 79-00-5 8260D 1.1,2 Tetrachrorethane mg/kg 0.003 - ND [0.00313] E ND [0.00284] ND [0.00283] 79-00-5 8260D 1.1,2 Tetrachrorethane mg/kg 0.0014 - ND [0.0016] E ND [0.00142] E ND [0.0016] E N	2.45 [2.68] J,B
- AK103 RRO mg/kg 10000 - 310 (8.6.5) 160 (87) 178 (67.5) 178 (67.5) 17439-92.1 60208 Lead mg/kg 400 100 6.15 (10.137) 12.5 (0.13) 12.7 (10.16) 630-20-6 8260D 1.1.1.1.2 Tetrachloroethane mg/kg 0.022 - ND [0.0313] E ND [0.0284] E ND [0.0283] E ND [0.0283] E ND [0.0284] E ND [0.028	15.2 [10.4] J
630-20-6 8260D	ND [52.5]
17:55-6 8260D	4.89 [0.102]
79-34-5	ND [0.0214]
79-00-5	ND [0.0268]
75-34-3 8260D 1.1-Dichloroethane mg/kg 0.992 - ND [0.039] ND [0.0355] ND [0.0329] 75-35-4 8260D 1,1-Dichloropropene mg/kg 1.2 1.4 ND [0.039] ND [0.0355] ND [0.0329] 96-18-4 8260D 1,2-3-TCP mg/kg 0.000031 - ND [0.039] ND [0.0284] E ND [0.0329] 96-18-4 8260D 1,2-3-Tichlorobenzene mg/kg 0.15 - ND [0.0318] ND [0.00284] E ND [0.0282] 96-18-6 8260D 1,2-3-Tichlorobenzene mg/kg 0.15 - ND [0.156] ND [0.142] ND [0.132] 95-63-6 8260D 1,2-4-Tichlorobenzene mg/kg 0.61 - ND [0.156] ND [0.142] ND [0.132] 96-12-8 8260D 1,2-Dichlorobenzene mg/kg - - ND [0.059] ND [0.0329] ND [0.0329] 96-12-8 8260D 1,2-Dichlorobenzene mg/kg 2.4 - ND [0.059] ND [0.0329] ND [0.	ND [0.00214]
T5-35-4 8260D	ND [0.00107]
Se3-Se-6 8260D	ND [0.0268]
96-18-4 8260D	ND [0.0268]
87-61-6 8260D 1,2,3-Trichlorobenzene mg/kg 0.15 - ND [0.156] E ND [0.142] ND [0.132] 120-82-1 8260D 1,2,4-Trichlorobenzene mg/kg 0.82 - ND [0.0355] ND [0.0355] ND [0.0329] 96-12-8 8260D 1,2-Dibromo-3-chloropropane mg/kg - - ND [0.156] E ND [0.142] E ND [0.132] E 96-12-8 8260D 1,2-Dibromo-3-chloropropane mg/kg - - ND [0.156] E ND [0.142] E ND [0.132] E 96-12-8 8260D 1,2-Dichlorobenzene mg/kg - - ND [0.039] ND [0.0355] ND [0.0329] 107-06-2 8260D 1,2-Dichloropropane mg/kg 0.03 - ND [0.0156] ND [0.0142] ND [0.0324] ND [0.0329] 108-67-8 8260D 1,3-Dichlorobenzene mg/kg 0.03 - ND [0.0156] ND [0.039] ND [0.0355] ND [0.0329] 541-73-1 8260D 1,3-Dichlorobenzene mg/kg 2.3 - ND [0.039] ND [0.0355] ND [0.0329] 142-28-9 8260D 1,3-Dichlor	ND [0.0268]
95-63-6 8260D 1,2.4-TMB mg/kg 0.61 - ND [0.156] ND [0.142] ND [0.132] 120-82-1 8260D 1,2.4-Trichlorobenzene mg/kg 0.082 - ND [0.039] ND [0.0355] ND [0.0329] 96-12-8 8260D 1,2-Dichlorobenzene mg/kg - ND [0.156] ND [0.0355] ND [0.0329] 95-50-1 8260D 1,2-Dichlorobenzene mg/kg 2.4 - ND [0.039] ND [0.0355] ND [0.0329] 107-06-2 8260D 1,2-Dichlorobenzene mg/kg 0.0055 10 ND [0.039] ND [0.0355] ND [0.0329] 178-87-5 8260D 1,2-Dichloropenzene mg/kg 0.0055 10 ND [0.0313] ND [0.00284] ND [0.00283] 108-67-8 8260D 1,2-Dichloropenzene mg/kg 0.03 - ND [0.0156] ND [0.0142] ND [0.0132] 108-67-8 8260D 1,3-Dichloropenzene mg/kg 0.66 - ND [0.039] ND [0.0355] ND [0.0329] 142-28-9 8260D 1,3-Dichloropenzene mg/kg 2.3 - ND [0.039] ND [0.0355] ND [0.0329] 142-28-9 8260D 1,3-Dichloropenzene mg/kg 1600 - ND [0.016] ND [0.0142] ND [0.0132] 106-46-7 8260D 1,4-Dichlorobenzene mg/kg 0.037 150 ND [0.039] ND [0.0355] ND [0.0329] 1594-20-7 8260D 2,2-Dichloropenzene mg/kg ND [0.039] ND [0.0355] ND [0.0329] 1594-9-8 8260D 2-Chlorotoluene mg/kg ND [0.039] ND [0.0355] ND [0.0329] 1591-78-6 8260D 2-Chlorotoluene mg/kg ND [0.039] ND [0.0355] ND [0.0329] 108-43-4 8260D 4-Chlorotoluene mg/kg ND [0.039] ND [0.0355] ND [0.0329] 108-43-4 8260D 4-Chlorotoluene mg/kg ND [0.039] ND [0.0355] ND [0.0329] 108-43-4 8260D 4-Chlorotoluene mg/kg ND [0.039] ND [0.0355] ND [0.0329] 108-61-41 8260D 4-Methyl-2-Pentanone mg/kg 18 - ND [0.0313] ND [0.0284] ND [0.0263] 108-10-1 8260D Benzene mg/kg 38 - ND [0.0391] ND [0.0355] ND [0.0329] 108-61-41 8260D Benzene mg/kg 0.04 - ND [0.0391] ND [0.0355] ND [0.0329] 108-61-41 8260D Benzene mg/kg 0.04 - ND [0.0391] ND [0.0355] ND [0.0329] 108-61-41 8260D Benzene mg/kg 0.04 - ND [0.0391] ND [0.0355] ND [0.0329] 108-61-41 8260D Benzene mg/kg 0.04 - ND [0.0391] ND [0.0355] ND [0.0329] 108-61-61 8260D Benzene mg/kg 0.06 - ND [0.0391] ND [0.0355] ND [0.0329] 108-61-61 8260D Benzene mg/kg 0.06 - ND [0.0391] ND [0.0355] ND [0.0329] 108-61-61 8260D Benzene mg/kg 0.06 - ND [0.0391] ND [0.0355] ND [0.0329] 108-61-61 8	ND [0.00214] E
120-82-1 8260D	ND [0.107]
96-12-8 8260D 1,2-Dibromo-3-chloropropane mg/kg ND [0.156] E ND [0.142] E ND [0.132] E 95-50-1 8260D 1,2-Dichlorobenzene mg/kg 0.055 10 ND [0.039] ND [0.0355] ND [0.0329] 107-06-2 8260D 1,2-Dichloroethane mg/kg 0.0055 10 ND [0.00313] ND [0.00284] ND [0.00283] 78-87-5 8260D 1,2-Dichloropropane mg/kg 0.03 - ND [0.0156] ND [0.0142] ND [0.0132] 108-67-8 8260D 1,3-5-TMB mg/kg 0.66 - ND [0.039] ND [0.0355] ND [0.0329] 108-67-8 8260D 1,3-Dichlorobenzene mg/kg 2.3 - ND [0.039] ND [0.0355] ND [0.0329] 142-28-9 8260D 1,3-Dichloropropane mg/kg 1600 - ND [0.0156] ND [0.0142] ND [0.0132] 108-46-7 8260D 1,3-Dichlorobenzene mg/kg 0.037 150 ND [0.039] E ND [0.0355] ND [0.0329] 106-46-7 8260D 1,3-Dichloropropane mg/kg 0.037 150 ND [0.039] E ND [0.0355] ND [0.0329] 106-46-7 8260D 2,2-Dichloropropane mg/kg ND [0.039] ND [0.0355] ND [0.0329] 108-49-8 8260D 2,2-Dichloropropane mg/kg ND [0.039] ND [0.0355] ND [0.0329] 108-49-8 8260D 2-Chlorotoluene mg/kg ND [0.039] ND [0.0355] ND [0.0329] 108-43-4 8260D 2-Chlorotoluene mg/kg ND [0.039] ND [0.0355] ND [0.0329] 108-43-4 8260D 2-Chlorotoluene mg/kg ND [0.039] ND [0.0355] ND [0.0329] 108-43-4 8260D 4-Chlorotoluene mg/kg ND [0.0313] ND [0.0355] ND [0.0329] 108-43-4 8260D 4-Chlorotoluene mg/kg ND [0.0313] ND [0.0355] ND [0.0329] 108-43-4 8260D A-Cetone mg/kg 18 - ND [0.313] ND [0.0355] ND [0.329] 108-43-4 8260D A-Cetone mg/kg 38 - ND [0.0391] ND [0.0355] ND [0.0329] 108-43-4 8260D B-Cetone mg/kg 38 - ND [0.0391] ND [0.0355] ND [0.0329] 108-43-4 8260D B-Cetone mg/kg 0.022 10 ND [0.039] ND [0.0355] ND [0.0329] 108-43-4 8260D B-Cetone mg/kg 0.044 - ND [0.039] ND [0.0355] ND [0.0329] 108-43-4 8260D B-Cetone mg/kg 0.044 - ND [0.039] ND [0.0355] ND [0.0329] 108-43-4 8260D B-Cetone mg/kg 0.044 - ND [0.039] ND [0.0355] ND [0.0329] 108-43-4 8260D B-Cetone mg/kg 0.044 - ND [0.039] ND [0.0355] ND [0.0329] 108-43-49-5 8260D B-Cetone mg/kg 0.044 - ND [0.039] ND [0.0355] ND [0.0329] 108-43-49-5 8260D B-Cetone mg/kg 0.044 - ND [0.039] ND [0.0355] ND [0.0329] 108-43-49-5 8	ND [0.107]
95-50-1 8260D 1,2-Dichlorobenzene mg/kg 2.4 - ND [0.039] ND [0.0355] ND [0.0329] 107-06-2 8260D 1,2-Dichloropthane mg/kg 0.0055 10 ND [0.0156] ND [0.0124] ND [0.00263] 78-87-5 8260D 1,2-Dichloropropane mg/kg 0.03 - ND [0.039] ND [0.0142] ND [0.0329] 108-67-8 8260D 1,3-Dichlorobenzene mg/kg 0.66 - ND [0.039] ND [0.0355] ND [0.0329] 541-73-1 8260D 1,3-Dichloropropane mg/kg 2.3 - ND [0.039] ND [0.0355] ND [0.0329] 142-28-9 8260D 1,3-Dichloropropane mg/kg 1600 - ND [0.039] ND [0.0355] ND [0.0329] 106-46-7 8260D 1,4-Dichlorobenzene mg/kg 0.037 150 ND [0.039] ND [0.0355] ND [0.0329] 594-20-7 8260D 2,2-Dichlorotoluene mg/kg - ND [0.039] ND [0.0355] ND [0.0355] ND [0.0355]	ND [0.0268]
107-06-2	ND [0.107] E ND [0.0268]
78-87-5 8260D 1,2-Dichloropropane mg/kg 0.03 - ND [0.0156] ND [0.0142] ND [0.0132] 108-67-8 8260D 1,3-5-TMB mg/kg 0.66 - ND [0.039] ND [0.0355] ND [0.0329] 541-73-1 8260D 1,3-Dichlorobenzene mg/kg 2.3 - ND [0.039] ND [0.0142] ND [0.0329] 142-28-9 8260D 1,3-Dichloropropane mg/kg 1600 - ND [0.0142] ND [0.0142] ND [0.0329] 106-46-7 8260D 1,4-Dichlorobenzene mg/kg 0.037 150 ND [0.039] ND [0.0355] ND [0.0329] 594-20-7 8260D 2,2-Dichloropropane mg/kg - - ND [0.039] ND [0.0355] ND [0.0329] 594-20-7 8260D 2,2-Dichloropropane mg/kg - - ND [0.039] ND [0.0355] ND [0.0329] 594-20-7 8260D 2,2-Dichloropopane mg/kg - - ND [0.039] ND [0.0355] ND [0.0329]	ND [0.0266]
108-67-8	ND [0.00214]
541-73-1 8260D 1,3-Dichlorobenzene mg/kg 2.3 - ND [0.039] ND [0.0355] ND [0.0329] 142-28-9 8260D 1,3-Dichloropropane mg/kg 1600 - ND [0.0156] ND [0.0142] ND [0.0132] 106-46-7 8260D 1,4-Dichlorobenzene mg/kg 0.037 150 ND [0.039] ND [0.0355] ND [0.0329] 594-20-7 8260D 2,2-Dichloropropane mg/kg - - ND [0.039] ND [0.0355] ND [0.0329] 95-49-8 8260D 2-Chlorotoluene mg/kg - - ND [0.039] ND [0.0355] ND [0.0329] 591-78-6 8260D 2-Hexanone mg/kg 0.11 - ND [0.188] E ND [0.17] E ND [0.158] E 106-43-4 8260D 4-Chlorotoluene mg/kg - - ND [0.0313] ND [0.0284] ND [0.055] ND [0.055] ND [0.058] 108-10-1 8260D 4-Methyl-2-Pentanone mg/kg 8 - ND [0.0313] ND [0.355] <t< td=""><td>ND [0.0268]</td></t<>	ND [0.0268]
142-28-9 8260D 1,3-Dichloropropane mg/kg 1600 - ND [0.0156] ND [0.0142] ND [0.0132] 106-46-7 8260D 1,4-Dichlorobenzene mg/kg 0.037 150 ND [0.039] ND [0.0355] ND [0.0329] 594-20-7 8260D 2,2-Dichloropropane mg/kg - - ND [0.039] ND [0.0355] ND [0.0329] 95-49-8 8260D 2-Chlorotoluene mg/kg - - ND [0.039] ND [0.0355] ND [0.0329] 591-78-6 8260D 2-Hexanone mg/kg 0.11 - ND [0.188] E ND [0.17] E ND [0.158] E 106-43-4 8260D 4-Chlorotoluene mg/kg - - ND [0.0313] ND [0.0264] ND [0.158] E 108-10-1 8260D 4-Methyl-2-Pentanone mg/kg - - ND [0.0391] ND [0.355] ND [0.329] 67-64-1 8260D Acetone mg/kg 38 - ND [0.391] ND [0.355] ND [0.329] 71-43-2	ND [0.0268]
106-46-7 8260D	ND [0.0107]
594-20-7 8260D 2,2-Dichloropropane mg/kg - ND [0.039] ND [0.0355] ND [0.0329] 95-49-8 8260D 2-Chlorotoluene mg/kg - ND [0.039] ND [0.0355] ND [0.0329] 591-78-6 8260D 2-Hexanone mg/kg 0.11 - ND [0.188] E ND [0.17] E ND [0.158] E 106-43-4 8260D 4-Chlorotoluene mg/kg - - ND [0.0313] ND [0.0284] ND [0.0263] 108-10-1 8260D 4-Methyl-2-Pentanone mg/kg 18 - ND [0.391] ND [0.355] ND [0.0263] 108-10-1 8260D Acetone mg/kg 38 - ND [0.391] ND [0.355] ND [0.329] 67-64-1 8260D Acetone mg/kg 38 - ND [0.391] ND [0.355] ND [0.329] 71-43-2 8260D Benzene mg/kg 0.022 10 ND [0.0195] ND [0.0177] ND [0.0164] 108-86-1 8260D Bromochloromethane mg/k	ND [0.0268]
95-49-8 8260D 2-Chlorotoluene mg/kg ND [0.039] ND [0.0355] ND [0.0329] 591-78-6 8260D 2-Hexanone mg/kg 0.11 - ND [0.188] E ND [0.17] E ND [0.158] E 106-43-4 8260D 4-Chlorotoluene mg/kg ND [0.0313] ND [0.0284] ND [0.0263] 108-10-1 8260D 4-Methyl-2-Pentanone mg/kg 18 - ND [0.391] ND [0.355] ND [0.329] 67-64-1 8260D Acetone mg/kg 38 - ND [0.391] ND [0.355] ND [0.329] 71-43-2 8260D Benzene mg/kg 0.022 10 ND [0.0195] ND [0.0177] ND [0.0164] 108-86-1 8260D Bromobenzene mg/kg 0.36 - ND [0.039] ND [0.0355] ND [0.0329] 74-97-5 8260D Bromochloromethane mg/kg ND [0.039] ND [0.0355] ND [0.0329] 75-27-4 8260D Bromochloromethane mg/kg 0.0043 - ND [0.0313] ND [0.00284] ND [0.00263] 75-25-2 8260D Bromoform mg/kg 0.1 - ND [0.0031] ND [0.00284] ND [0.00263] 74-83-9 8260D Bromomethane mg/kg 0.024 - ND [0.031] E ND [0.0284] E ND [0.0329] 75-25-5 8260D Carbon Tetrachloride mg/kg 0.024 - ND [0.0313] E ND [0.0284] E ND [0.0263] 75-25-5 8260D Carbon Tetrachloride mg/kg 0.021 10 ND [0.0195] ND [0.0177] ND [0.0164]	ND [0.0268]
106-43-4 8260D 4-Chlorotoluene mg/kg - - ND [0.0313] ND [0.0284] ND [0.0263] 108-10-1 8260D 4-Methyl-2-Pentanone mg/kg 18 - ND [0.391] ND [0.355] ND [0.329] 67-64-1 8260D Acetone mg/kg 38 - ND [0.391] ND [0.355] ND [0.329] 71-43-2 8260D Benzene mg/kg 0.022 10 ND [0.0195] ND [0.0177] ND [0.0164] 108-86-1 8260D Bromobenzene mg/kg 0.36 - ND [0.039] ND [0.0355] ND [0.0329] 74-97-5 8260D Bromochloromethane mg/kg - - ND [0.039] ND [0.0355] ND [0.0329] 75-27-4 8260D Bromodichloromethane mg/kg 0.0043 - ND [0.0313] ND [0.00284] ND [0.00263] 75-25-2 8260D Bromoform mg/kg 0.1 - ND [0.039] ND [0.0355] ND [0.0329] 74-83-9 8260D	ND [0.0268]
108-10-1 8260D 4-Methyl-2-Pentanone mg/kg 18 - ND [0.391] ND [0.355] ND [0.329] 67-64-1 8260D Acetone mg/kg 38 - ND [0.391] ND [0.355] ND [0.329] 71-43-2 8260D Benzene mg/kg 0.022 10 ND [0.0195] ND [0.0177] ND [0.0164] 108-86-1 8260D Bromobenzene mg/kg 0.36 - ND [0.039] ND [0.0355] ND [0.0329] 74-97-5 8260D Bromochloromethane mg/kg - - ND [0.039] ND [0.0355] ND [0.0329] 75-27-4 8260D Bromodichloromethane mg/kg 0.0043 - ND [0.0031] ND [0.00284] ND [0.00263] 75-25-2 8260D Bromoform mg/kg 0.1 - ND [0.033] ND [0.0355] ND [0.0329] 74-83-9 8260D Bromoethane mg/kg 0.024 - ND [0.0313] ND [0.0284] ND [0.0263] 75-15-0 8260D	ND [0.129] E
67-64-1 8260D Acetone mg/kg 38 - ND [0.391] ND [0.355] ND [0.329] 71-43-2 8260D Benzene mg/kg 0.022 10 ND [0.0195] ND [0.0177] ND [0.0164] 108-86-1 8260D Bromobenzene mg/kg 0.36 - ND [0.039] ND [0.0355] ND [0.0329] 74-97-5 8260D Bromochloromethane mg/kg - - ND [0.039] ND [0.0355] ND [0.0329] 75-27-4 8260D Bromodichloromethane mg/kg 0.043 - ND [0.00313] ND [0.00284] ND [0.00263] 75-25-2 8260D Bromoform mg/kg 0.1 - ND [0.039] ND [0.0355] ND [0.0329] 74-83-9 8260D Bromomethane mg/kg 0.024 - ND [0.0313] ND [0.0284] ND [0.0263] E 75-15-0 8260D Carbon Disulfide mg/kg 2.9 - ND [0.0195] ND [0.0177] ND [0.132] 56-23-5	ND [0.0214]
71-43-2 8260D Benzene mg/kg 0.022 10 ND [0.0195] ND [0.0177] ND [0.0164] 108-86-1 8260D Bromobenzene mg/kg 0.36 - ND [0.039] ND [0.0355] ND [0.0329] 74-97-5 8260D Bromochloromethane mg/kg - - ND [0.039] ND [0.0355] ND [0.0329] 75-27-4 8260D Bromodichloromethane mg/kg 0.0043 - ND [0.0313] ND [0.00284] ND [0.00263] 75-25-2 8260D Bromoform mg/kg 0.1 - ND [0.039] ND [0.0355] ND [0.0329] 74-83-9 8260D Bromomethane mg/kg 0.024 - ND [0.0331] ND [0.0284] E ND [0.0263] 75-15-0 8260D Carbon Disulfide mg/kg 2.9 - ND [0.156] ND [0.142] ND [0.132] 56-23-5 8260D Carbon Tetrachloride mg/kg 0.021 10 ND [0.0195] ND [0.0177] ND [0.0164]	ND [0.268]
108-86-1 8260D Bromobenzene mg/kg 0.36 - ND [0.039] ND [0.0355] ND [0.0329] 74-97-5 8260D Bromochloromethane mg/kg - - ND [0.039] ND [0.0355] ND [0.0329] 75-27-4 8260D Bromodichloromethane mg/kg 0.0043 - ND [0.0313] ND [0.00284] ND [0.00263] 75-25-2 8260D Bromoform mg/kg 0.1 - ND [0.039] ND [0.0355] ND [0.0329] 74-83-9 8260D Bromomethane mg/kg 0.024 - ND [0.0313] ND [0.0284] E ND [0.0263] 75-15-0 8260D Carbon Disulfide mg/kg 2.9 - ND [0.156] ND [0.142] ND [0.132] 56-23-5 8260D Carbon Tetrachloride mg/kg 0.021 10 ND [0.0195] ND [0.0177] ND [0.0164]	ND [0.268]
74-97-5 8260D Bromochloromethane mg/kg - - ND [0.039] ND [0.0355] ND [0.0329] 75-27-4 8260D Bromodichloromethane mg/kg 0.0043 - ND [0.00313] ND [0.00284] ND [0.00263] 75-25-2 8260D Bromoform mg/kg 0.1 - ND [0.039] ND [0.0355] ND [0.0329] 74-83-9 8260D Bromomethane mg/kg 0.024 - ND [0.0313] E ND [0.0284] E ND [0.0263] E 75-15-0 8260D Carbon Disulfide mg/kg 2.9 - ND [0.156] ND [0.142] ND [0.132] 56-23-5 8260D Carbon Tetrachloride mg/kg 0.021 10 ND [0.0195] ND [0.0177] ND [0.0164]	ND [0.0134]
75-27-4 8260D Bromodichloromethane mg/kg 0.0043 - ND [0.00313] ND [0.00284] ND [0.00263] 75-25-2 8260D Bromoform mg/kg 0.1 - ND [0.039] ND [0.0355] ND [0.0329] 74-83-9 8260D Bromomethane mg/kg 0.024 - ND [0.0313] E ND [0.0284] E ND [0.0263] E 75-15-0 8260D Carbon Disulfide mg/kg 2.9 - ND [0.156] ND [0.142] ND [0.132] 56-23-5 8260D Carbon Tetrachloride mg/kg 0.021 10 ND [0.0195] ND [0.0177] ND [0.0164]	ND [0.0268]
75-25-2 8260D Bromoform mg/kg 0.1 - ND [0.039] ND [0.0355] ND [0.0329] 74-83-9 8260D Bromomethane mg/kg 0.024 - ND [0.0313] E ND [0.0284] E ND [0.0263] E 75-15-0 8260D Carbon Disulfide mg/kg 2.9 - ND [0.156] ND [0.142] ND [0.132] 56-23-5 8260D Carbon Tetrachloride mg/kg 0.021 10 ND [0.0195] ND [0.0177] ND [0.0164]	ND [0.0268]
74-83-9 8260D Bromomethane mg/kg 0.024 - ND [0.0313] E ND [0.0284] E ND [0.0263] E 75-15-0 8260D Carbon Disulfide mg/kg 2.9 - ND [0.156] ND [0.142] ND [0.132] 56-23-5 8260D Carbon Tetrachloride mg/kg 0.021 10 ND [0.0195] ND [0.0177] ND [0.0164]	ND [0.00214]
75-15-0 8260D Carbon Disulfide mg/kg 2.9 - ND [0.156] ND [0.142] ND [0.132] 56-23-5 8260D Carbon Tetrachloride mg/kg 0.021 10 ND [0.0195] ND [0.0177] ND [0.0164]	ND [0.0268]
56-23-5 8260D Carbon Tetrachloride mg/kg 0.021 10 ND [0.0195] ND [0.0177] ND [0.0164]	ND [0.0214]
	ND [0.107]
	ND [0.0134]
	ND [0.0268]
75-00-3 8260D Chloroethane mg/kg 72 - ND [0.313] ND [0.284] ND [0.263]	ND [0.214]
67-66-3 8260D Chloroform mg/kg 0.0071 120 ND [0.00935] E ND [0.0085] E ND [0.0079] E	ND [0.00645]
74-87-3 8260D Chloromethane mg/kg 0.61 - ND [0.039] ND [0.0355] ND [0.0329] - 8260D cis-1,3-Dichloropropene mg/kg ND [0.0195] ND [0.0177] ND [0.0164]	ND [0.0268] ND [0.0134]
- 8260D cis-1,3-Dichloropropene mg/kg ND [0.0195] ND [0.0177] ND [0.0164] 156-59-2 8260D cis-DCE mg/kg 0.12 - ND [0.039] ND [0.0355] ND [0.0329]	ND [0.0134] ND [0.0268]
98-82-8 8260D Cumene mg/kg 5.6 - ND [0.039] ND [0.0355] ND [0.0329]	ND [0.0268]
96-62-6 6200D Currierie Ing/kg 5.6 - ND [0.039] ND [0.0339] ND [0.0329] 124-48-1 8260D Dibromochloromethane mg/kg 0.0027 - ND [0.0078] E ND [0.0071] E ND [0.00655] E	ND [0.0266] ND [0.00535] E
74-95-3 8260D Dibromomethane mg/kg 0.0027 - ND [0.0078] E ND [0.0078] E ND [0.00535] E ND [0.00329] E	ND [0.00535] E
106-93-4 8260D EDB mg/kg 0.00024 - ND [0.00234] E ND [0.00213] E ND [0.00197] E	ND [0.0206] E ND [0.00161] E
100-41-4 8260D Ethylbenzene mg/kg 0.13 - ND [0.035] ND [0.035] ND [0.0329]	ND [0.0268]

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					Location ID:	05.0	SB7b	SB7b	SB8b
					Sample ID:	22MAH-SB7b-SO6-8	22MAH-SB7b-SO10-10_5	22MAH-SB7b-SO10-10_5A	22MAH-SB8b-SO6-8
					SDG:	1225240	1225240	1225240	1225240
					Lab Sample ID:	1225240007	1225240005	1225240006	1225240012
					Sample Date/Time:	08/25/2022 11:15:00	08/25/2022 10:48:00	08/25/2022 10:48:0	08/27/2022 09:00:00
					Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental
					QA/QC:	Primay Sample	Primay Sample	Field Duplicate	Primay Sample
CAS Number	Method	Analyte	Units	SCL ¹	20 Times TCLP ²	1	, ,	·	
75-69-4	8260D	Freon-11	mg/kg	41	-	ND [0.078]	ND [0.071]	ND [0.0655]	ND [0.0535]
-	8260D	Freon-113	mg/kg	-	-	ND [0.156]	ND [0.142]	ND [0.132]	ND [0.107]
75-71-8	8260D	Freon-12	mg/kg	3.9	-	ND [0.156]	ND [0.142]	ND [0.132]	ND [0.107]
87-68-3	8260D	Hexachlorobutadiene	mg/kg	0.02	10	ND [0.0313] E	ND [0.0284] E	ND [0.0263] E	ND [0.0214] E
-	8260D	m,p-Xylene	mg/kg	-	-	ND [0.078]	ND [0.071]	ND [0.0655]	ND [0.0535]
78-93-3	8260D	MEK	mg/kg	15	4000	ND [0.391]	ND [0.355]	ND [0.329]	ND [0.268]
75-09-2	8260D	Methylene Chloride	mg/kg	0.33	-	ND [0.156]	ND [0.142]	ND [0.132]	ND [0.107]
1634-04-4	8260D	MTBE	mg/kg	0.4		ND [0.156]	ND [0.142]	ND [0.132]	ND [0.107]
91-20-3	8260D	Naphthalene	mg/kg	0.038	-	ND [0.039] E	ND [0.0355]	ND [0.0329]	ND [0.0268]
104-51-8	8260D	n-Butylbenzene	mg/kg	20	-	ND [0.039]	ND [0.0355]	ND [0.0329]	ND [0.0268]
-	8260D	o-Xylene	mg/kg	-	-	ND [0.039]	ND [0.0355]	ND [0.0329]	ND [0.0268]
127-18-4	8260D	PCE	mg/kg	0.19	14	ND [0.0195]	ND [0.0177]	ND [0.0164]	ND [0.0134]
99-87-6	8260D	p-Cymene	mg/kg	-	-	ND [0.125]	ND [0.114]	ND [0.105]	ND [0.0855]
103-65-1	8260D	Propylbenzene	mg/kg	9.1	-	ND [0.039]	ND [0.0355]	ND [0.0329]	ND [0.0268]
135-98-8	8260D	sec-Butylbenzene	mg/kg	28	-	ND [0.039]	ND [0.0355]	ND [0.0329]	ND [0.0268]
100-42-5	8260D	Styrene	mg/kg	10	-	ND [0.039]	ND [0.0355]	ND [0.0329]	ND [0.0268]
79-01-6	8260D	TCE	mg/kg	0.011	10	ND [0.0156] E	ND [0.0142] E	ND [0.0132] E	ND [0.0107]
98-06-6	8260D	tert-Butylbenzene	mg/kg	11	-	ND [0.039]	ND [0.0355]	ND [0.0329]	ND [0.0268]
108-88-3	8260D	Toluene	mg/kg	6.7	-	0.0499 [0.039] J	ND [0.0355]	ND [0.0329]	ND [0.0268]
542-75-6	8260D	trans-1,3-Dichloropropene	mg/kg	0.018	-	ND [0.0195] E	ND [0.0177]	ND [0.0164]	ND [0.0134]
156-60-5	8260D	trans-DCE	mg/kg	1.3	-	ND [0.039]	ND [0.0355]	ND [0.0329]	ND [0.0268]
75-01-4	8260D	VC	mg/kg	0.0008	4	ND [0.00125] E	ND [0.00114] E	ND [0.00105] E	ND [0.000855] E
108-05-4	8260D	Vinyl Acetate	mg/kg	1.1	-	ND [0.156]	ND [0.142]	ND [0.132]	ND [0.107]
1330-20-7	8260D	Xylenes	mg/kg	1.5	ı	ND [0.117]	ND [0.107]	ND [0.0985]	ND [0.0805]
106-93-4	8260D-SIM	EDB	mg/kg	0.00024	ı	ND [0.000195]	ND [0.000177]	ND [0.000164]	ND [0.000134]
90-12-0	8270DSIM	1-Methylnaphthalene	mg/kg	0.41	ı	ND [0.0172]	ND [0.0167]	ND [0.0166]	ND [0.0131]
91-57-6	8270DSIM	2-Methylnaphthalene	mg/kg	1.3		ND [0.0172]	ND [0.0167]	ND [0.0166]	ND [0.0131]
83-32-9	8270DSIM	Acenaphthene	mg/kg	37	-	ND [0.0172]	ND [0.0167]	ND [0.0166]	ND [0.0131]
208-96-8	8270DSIM	Acenaphthylene	mg/kg	18	-	ND [0.0172]	ND [0.0167]	ND [0.0166]	ND [0.0131]
120-12-7	8270DSIM	Anthracene	mg/kg	390	-	ND [0.0172]	ND [0.0167]	ND [0.0166]	ND [0.0131]
56-55-3	8270DSIM	Benzo(a)anthracene	mg/kg	0.7	-	ND [0.0172]	0.0133 [0.0167] J	0.0175 [0.0166] J	ND [0.0131]
50-32-8	8270DSIM	Benzo(a)pyrene	mg/kg	1.5	-	ND [0.0172]	0.0206 [0.0167] J	0.0246 [0.0166] J	ND [0.0131]
205-99-2	8270DSIM	Benzo(b)fluoranthene	mg/kg	15	-	ND [0.0172]	0.0279 [0.0167] J	0.04 [0.0166]	ND [0.0131]
191-24-2	8270DSIM	Benzo(g,h,i)perylene	mg/kg	2300	-	ND [0.0172]	0.0178 [0.0167] J	0.0202 [0.0166] J	ND [0.0131]
207-08-9	8270DSIM	Benzo(k)fluoranthene	mg/kg	150	-	ND [0.0172]	0.0104 [0.0167] J	0.0148 [0.0166] J	ND [0.0131]
218-01-9	8270DSIM	Chrysene	mg/kg	600	-	ND [0.0172]	0.0227 [0.0167] J	0.0314 [0.0166] J	ND [0.0131]
53-70-3	8270DSIM	Dibenzo(a,h)anthracene	mg/kg	1.5	-	ND [0.0172]	ND [0.0167]	ND [0.0166]	ND [0.0131]
206-44-0	8270DSIM	Fluoranthene	mg/kg	590	-	ND [0.0172]	0.0388 [0.0167]	0.0436 [0.0166]	ND [0.0131]
86-73-7	8270DSIM	Fluorene	mg/kg	36	-	ND [0.0172]	ND [0.0167]	ND [0.0166]	ND [0.0131]
193-39-5	8270DSIM	Indeno(1,2,3-cd)pyrene	mg/kg	15	-	ND [0.0172]	0.014 [0.0167] J	0.0174 [0.0166] J	ND [0.0131]

					Location ID:	SB7b	SB7b	SB7b	SB8b
					Sample ID:	22MAH-SB7b-SO6-8	22MAH-SB7b-SO10-10_5	22MAH-SB7b-SO10-10_5A	22MAH-SB8b-SO6-8
					SDG:	1225240	1225240	1225240	1225240
					Lab Sample ID:	1225240007	1225240005	1225240006	1225240012
					Sample Date/Time:	08/25/2022 11:15:00	08/25/2022 10:48:00	08/25/2022 10:48:0	08/27/2022 09:00:00
					Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental
					QA/QC:	Primay Sample	Primay Sample	Field Duplicate	Primay Sample
CAS Number	Method	Analyte	Units	SCL ¹	20 Times TCLP ²				
91-20-3	8270DSIM	Naphthalene	mg/kg	0.038	•	ND [0.0138]	ND [0.0134]	ND [0.0133]	ND [0.0105]
85-01-8	8270DSIM	Phenanthrene	mg/kg	39	ı	ND [0.0172]	0.0157 [0.0167] J	0.0147 [0.0166] J	ND [0.0131]
129-00-0	8270DSIM	Pyrene	mg/kg	87	•	ND [0.0172]	0.0363 [0.0167]	0.0473 [0.0166]	ND [0.0131]

Notes:

²40 CFR 261, Appendix II, 1993 ed., as amended by 58 FR 46040, August 31, 1993.

Bold = Result exceeds ADEC Most Stringent.

- = no criteria/not analyzed

[] = limit of detection (LOD)

CAS = Chemical Abstracts Service

GCL/SCL = groundwater/soil cleanup level

ID = identification

mg/kg = milligram(s) per kilogram

ND = nondetect

QA/QC = quality assurance/quality control

SDG = sample delivery group

TCLP = Toxicity Characteristic Leaching Procedure

- J = The result is an estimated value because it was greater than the DL but less than the limit of quantitation.
- E = The result was nondetect (ND) and the limit of detection (LOD) exceeds the GCL or SCL.
- B = The analyte was detected in the method blank, trip blank or equipment blank and the concentration in the sample did not exceed the blank concentration by a factor of 5.
- JL = The result was an estimated value biased high (+) or low (-) because the analyte failed recovery criteria in the LCS or LCSD sample or both.

¹ ADEC Table B1 and B2, Most stringent of Human Health (Under 40 inch zone) and migration to groundwater (ADEC 2021).

					Location ID:	SB8b	SB8b	SB12	SB12
					Sample ID:	22MAH-SB8b-SO10-10 5	22MAH-SB8b-SO10-10 5A	22MAH-SB12-SO2-4	22MAH-SB12-SO10 5 11
					SDG:	1225240	1225240	1225240	1225240
					Lab Sample ID:	1225240013	1225240014	1225240009	1225240008
					Sample Date/Time:	08/27/2022 09:15:00	08/27/2022 09:15:0	08/25/2022 16:55:00	08/25/2022 16:55:00
					Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental
					QA/QC:				
						Primay Sample	Field Duplicate	Primay Sample	Primay Sample
CAS Number	Method	Analyte	Units	SCL ¹	20 Times TCLP ²	00.0		00.4	71.0
-	A2540G	Total Solids	Percent	-	-	83.8	88	96.1	74.2
-	AK101	GRO	mg/kg	300	-	2.89 [3.37] J,B	2.33 [2.95] J,B	1.79 [2.11] J,B	2.65 [3.25] J,B
-	AK102	DRO	mg/kg	250	-	53.7 [11.9]	77.3 [11.3]	30.9 [10.3] B	ND [13.4]
-	AK103	RRO	mg/kg	10000	-	61 [59.5] J	110 [56] J	200 [51.5]	72.3 [67] J
7439-92-1	6020B	Lead	mg/kg	400	100	7.72 [0.116]	8.64 [0.105]	27.6 [0.0955]	7.78 [0.134]
630-20-6	8260D	1,1,1,2-Tetrachloroethane	mg/kg	0.022	-	ND [0.0269] E	ND [0.0236] E	ND [0.0169]	ND [0.0261] E
71-55-6	8260D	1,1,1-Trichloroethane	mg/kg	32	-	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
79-34-5	8260D	1,1,2,2-Tetrachloroethane	mg/kg	0.003	-	ND [0.00269]	ND [0.00236]	ND [0.00169]	ND [0.00261]
79-00-5	8260D	1,1,2-Trichloroethane	mg/kg	0.0014	-	ND [0.00135]	ND [0.00118]	ND [0.000845]	ND [0.0013]
75-34-3	8260D	1,1-Dichloroethane	mg/kg	0.092	-	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
75-35-4	8260D	1,1-Dichloroethene	mg/kg	1.2	14	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
563-58-6 96-18-4	8260D 8260D	1,1-Dichloropropene	mg/kg	0.000031	-	ND [0.0336] ND [0.00269] E	ND [0.0295] ND [0.00236] E	ND [0.0211] ND [0.00169] E	ND [0.0325]
		1,2,3-TCP	mg/kg		-				ND [0.00261] E
87-61-6 95-63-6	8260D 8260D	1,2,3-Trichlorobenzene	mg/kg	0.15	-	ND [0.135]	ND [0.118] ND [0.118]	ND [0.0845]	ND [0.13]
		1,2,4-TMB	mg/kg	0.61	-	ND [0.135]		ND [0.0845]	ND [0.13]
120-82-1	8260D	1,2,4-Trichlorobenzene	mg/kg	0.082	-	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
96-12-8 95-50-1	8260D 8260D	1,2-Dibromo-3-chloropropane	mg/kg	- 2.4	-	ND [0.135] E	ND [0.118] E	ND [0.0845] E	ND [0.13] E
107-06-2	8260D 8260D	1,2-Dichlorobenzene	mg/kg	0.0055	- 10	ND [0.0336]	ND [0.0295] ND [0.00236]	ND [0.0211] ND [0.00169]	ND [0.0325] ND [0.00261]
78-87-5		1,2-Dichloroethane	mg/kg	0.0055	-	ND [0.00269]		ND [0.00169] ND [0.00845]	ND [0.00261] ND [0.013]
108-67-8	8260D 8260D	1,2-Dichloropropane 1,3,5-TMB	mg/kg			ND [0.0134]	ND [0.0118]		
541-73-1	8260D		mg/kg	0.66 2.3	-	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
142-28-9	8260D	1,3-Dichlorobenzene 1,3-Dichloropropane	mg/kg	1600	-	ND [0.0336] ND [0.0134]	ND [0.0295] ND [0.0118]	ND [0.0211] ND [0.00845]	ND [0.0325] ND [0.013]
106-46-7	8260D	1,4-Dichlorobenzene	mg/kg mg/kg	0.037	150	0.0227 [0.0336] J	ND [0.0116] ND [0.0295]	ND [0.0043]	ND [0.0325]
594-20-7	8260D	2,2-Dichloropropane	mg/kg	-	-	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
95-49-8	8260D	2-Chlorotoluene	mg/kg	-	-	ND [0.0336]	ND [0.0295]	ND [0.0211] ND [0.0211]	ND [0.0325]
591-78-6	8260D	2-Hexanone	mg/kg	0.11	-	ND [0.0330] ND [0.162] E	ND [0.0293] ND [0.142] E	ND [0.0211] ND [0.102]	ND [0.0525] ND [0.156] E
106-43-4	8260D	4-Chlorotoluene	mg/kg	0.11		ND [0.102] L ND [0.0269]	ND [0.0236]	ND [0.102]	ND [0.136] L ND [0.0261]
108-10-1	8260D	4-Methyl-2-Pentanone	mg/kg	- 18	-	ND [0.0209]	ND [0.0236] ND [0.295]	ND [0.0109]	ND [0.0261]
67-64-1	8260D	Acetone	mg/kg	38		ND [0.337]	ND [0.295]	ND [0.211]	ND [0.326]
71-43-2	8260D	Benzene	mg/kg	0.022	10	ND [0.0168]	ND [0.0148]	ND [0.211]	ND [0.0163]
108-86-1	8260D	Bromobenzene	mg/kg	0.36	-	ND [0.0336]	ND [0.0295]	ND [0.0100]	ND [0.0325]
74-97-5	8260D	Bromochloromethane	mg/kg	-	-	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
75-27-4	8260D	Bromodichloromethane	mg/kg	0.0043	-	ND [0.00269]	ND [0.0293] ND [0.00236]	ND [0.0211]	ND [0.00261]
75-25-2	8260D	Bromoform	mg/kg	0.0043	-	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
74-83-9	8260D	Bromomethane	mg/kg	0.024	-	ND [0.0269] E	ND [0.0236]	ND [0.0169]	ND [0.0261] E
75-15-0	8260D	Carbon Disulfide	mg/kg	2.9	-	ND [0.135]	ND [0.118]	ND [0.0845]	ND [0.13]
56-23-5	8260D	Carbon Tetrachloride	mg/kg	0.021	10	ND [0.0168]	ND [0.0148]	ND [0.0106]	ND [0.0163]
108-90-7	8260D	Chlorobenzene	mg/kg	0.46	2000	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
75-00-3	8260D	Chloroethane	mg/kg	72	-	ND [0.269]	ND [0.236]	ND [0.169]	ND [0.261]
67-66-3	8260D	Chloroform	mg/kg	0.0071	120	ND [0.00805] E	ND [0.0071]	ND [0.00505]	ND [0.0078] E
74-87-3	8260D	Chloromethane	mg/kg	0.61	-	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
-	8260D	cis-1,3-Dichloropropene	mg/kg	-	-	ND [0.0168]	ND [0.0148]	ND [0.0106]	ND [0.0163]
156-59-2	8260D	cis-DCE	mg/kg	0.12	-	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
98-82-8	8260D	Cumene	mg/kg	5.6	-	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
124-48-1	8260D	Dibromochloromethane	mg/kg	0.0027	-	ND [0.00675] E	ND [0.0059] E	ND [0.00422] E	ND [0.0065] E
74-95-3	8260D	Dibromomethane	mg/kg	0.025	-	ND [0.0336] E	ND [0.0295] E	ND [0.0211]	ND [0.0325] E
106-93-4	8260D	EDB	mg/kg	0.00024	-	ND [0.00202] E	ND [0.00177] E	ND [0.00126] E	ND [0.00195] E
100-41-4	8260D	Ethylbenzene	mg/kg	0.13	-	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]

					Location ID:	SB8b	SB8b	SB12	SB12
					Sample ID:	22MAH-SB8b-SO10-10_5	22MAH-SB8b-SO10-10_5A	22MAH-SB12-SO2-4	22MAH-SB12-SO10_5_11
					SDG:	1225240	1225240	1225240	1225240
					Lab Sample ID:	1225240013	1225240014	1225240009	1225240008
					Sample Date/Time:	08/27/2022 09:15:00	08/27/2022 09:15:0	08/25/2022 16:55:00	08/25/2022 16:55:00
					Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental
					QA/QC:	Primay Sample	Field Duplicate	Primay Sample	Primay Sample
CAS Number	Method	Analyte	Units	SCL ¹	20 Times TCLP ²		· ·		
75-69-4	8260D	Freon-11	mg/kg	41	-	0.072 [0.0675] J,JL+	ND [0.059]	ND [0.0422]	ND [0.065]
-	8260D	Freon-113	mg/kg	-	-	ND [0.135]	ND [0.118]	ND [0.0845]	ND [0.13]
75-71-8	8260D	Freon-12	mg/kg	3.9	-	ND [0.135]	ND [0.118]	ND [0.0845]	ND [0.13]
87-68-3	8260D	Hexachlorobutadiene	mg/kg	0.02	10	ND [0.0269] E	ND [0.0236] E	ND [0.0169]	ND [0.0261] E
-	8260D	m,p-Xylene	mg/kg	-	-	ND [0.0675]	ND [0.059]	ND [0.0422]	ND [0.065]
78-93-3	8260D	MEK	mg/kg	15	4000	ND [0.337]	ND [0.295]	ND [0.211]	ND [0.326]
75-09-2	8260D	Methylene Chloride	mg/kg	0.33	•	ND [0.135]	ND [0.118]	ND [0.0845]	ND [0.13]
1634-04-4	8260D	MTBE	mg/kg	0.4	•	ND [0.135]	ND [0.118]	ND [0.0845]	ND [0.13]
91-20-3	8260D	Naphthalene	mg/kg	0.038	-	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
104-51-8	8260D	n-Butylbenzene	mg/kg	20	-	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
-	8260D	o-Xylene	mg/kg	-	•	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
127-18-4	8260D	PCE	mg/kg	0.19	14	ND [0.0168]	ND [0.0148]	ND [0.0106]	ND [0.0163]
99-87-6	8260D	p-Cymene	mg/kg	-	-	ND [0.108]	ND [0.0945]	ND [0.0675]	ND [0.104]
103-65-1	8260D	Propylbenzene	mg/kg	9.1	ı	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
135-98-8	8260D	sec-Butylbenzene	mg/kg	28	ı	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
100-42-5	8260D	Styrene	mg/kg	10	ı	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
79-01-6	8260D	TCE	mg/kg	0.011	10	ND [0.0134] E	ND [0.0118] E	ND [0.00845]	ND [0.013] E
98-06-6	8260D	tert-Butylbenzene	mg/kg	11	-	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
108-88-3	8260D	Toluene	mg/kg	6.7	-	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
542-75-6	8260D	trans-1,3-Dichloropropene	mg/kg	0.018	-	ND [0.0168]	ND [0.0148]	ND [0.0106]	ND [0.0163]
156-60-5	8260D	trans-DCE	mg/kg	1.3	-	ND [0.0336]	ND [0.0295]	ND [0.0211]	ND [0.0325]
75-01-4	8260D	VC	mg/kg	0.0008	4	ND [0.00108] E	ND [0.000945] E	ND [0.000675]	ND [0.00104] E
108-05-4	8260D	Vinyl Acetate	mg/kg	1.1	-	ND [0.135]	ND [0.118]	ND [0.0845]	ND [0.13]
1330-20-7	8260D	Xylenes	mg/kg	1.5	-	ND [0.101]	ND [0.0885]	ND [0.0635]	ND [0.0975]
106-93-4	8260D-SIM	EDB	mg/kg	0.00024	-	ND [0.000168]	ND [0.000147]	ND [0.000106]	ND [0.000163]
90-12-0	8270DSIM	1-Methylnaphthalene	mg/kg	0.41	-	ND [0.0148]	ND [0.0142]	ND [0.0129]	ND [0.0168]
91-57-6	8270DSIM	2-Methylnaphthalene	mg/kg	1.3	-	ND [0.0148]	ND [0.0142]	ND [0.0129]	ND [0.0168]
83-32-9	8270DSIM	Acenaphthene	mg/kg	37	-	ND [0.0148]	ND [0.0142]	ND [0.0129]	ND [0.0168]
208-96-8	8270DSIM	Acenaphthylene	mg/kg	18	-	ND [0.0148]	ND [0.0142]	ND [0.0129]	ND [0.0168]
120-12-7	8270DSIM	Anthracene	mg/kg	390	-	ND [0.0148]	ND [0.0142]	ND [0.0129]	ND [0.0168]
56-55-3	8270DSIM	Benzo(a)anthracene	mg/kg	0.7	-	ND [0.0148]	ND [0.0142]	ND [0.0129]	ND [0.0168]
50-32-8	8270DSIM	Benzo(a)pyrene	mg/kg	1.5	-	ND [0.0148]	ND [0.0142]	ND [0.0129]	ND [0.0168]
205-99-2	8270DSIM	Benzo(b)fluoranthene	mg/kg	15	-	ND [0.0148]	ND [0.0142]	0.00729 [0.0129] J	ND [0.0168]
191-24-2	8270DSIM	Benzo(g,h,i)perylene	mg/kg	2300	-	ND [0.0148]	ND [0.0142]	0.00944 [0.0129] J	ND [0.0168]
207-08-9	8270DSIM	Benzo(k)fluoranthene	mg/kg	150	-	ND [0.0148]	ND [0.0142]	ND [0.0129]	ND [0.0168]
218-01-9	8270DSIM	Chrysene	mg/kg	600	-	ND [0.0148]	ND [0.0142]	ND [0.0129]	ND [0.0168]
53-70-3	8270DSIM	Dibenzo(a,h)anthracene	mg/kg	1.5	-	ND [0.0148]	ND [0.0142]	ND [0.0129]	ND [0.0168]
206-44-0	8270DSIM	Fluoranthene	mg/kg	590	-	ND [0.0148]	ND [0.0142]	0.00799 [0.0129] J	ND [0.0168]
86-73-7	8270DSIM	Fluorene	mg/kg	36	-	ND [0.0148]	ND [0.0142]	ND [0.0129]	ND [0.0168]
193-39-5	8270DSIM	Indeno(1,2,3-cd)pyrene	mg/kg	15	-	ND [0.0148]	ND [0.0142]	ND [0.0129]	ND [0.0168]

					Location ID:	SB8b	SB8b	SB12	SB12
					Sample ID:	22MAH-SB8b-SO10-10_5	22MAH-SB8b-SO10-10_5A	22MAH-SB12-SO2-4	22MAH-SB12-SO10_5_11
					SDG:	1225240	1225240	1225240	1225240
					Lab Sample ID:	1225240013	1225240014	1225240009	1225240008
					Sample Date/Time:	08/27/2022 09:15:00	08/27/2022 09:15:0	08/25/2022 16:55:00	08/25/2022 16:55:00
					Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental
					QA/QC:	Primay Sample	Field Duplicate	Primay Sample	Primay Sample
CAS Number	Method	Analyte	Units	SCL ¹	20 Times TCLP ²				
91-20-3	8270DSIM	Naphthalene	mg/kg	0.038	-	ND [0.0119]	ND [0.0114]	ND [0.0104]	ND [0.0134]
85-01-8	8270DSIM	Phenanthrene	mg/kg	39	-	ND [0.0148]	ND [0.0142]	ND [0.0129]	ND [0.0168]
129-00-0	8270DSIM	Pyrene	mg/kg	87	-	ND [0.0148]	ND [0.0142]	0.00772 [0.0129] J	ND [0.0168]

Notes:

²40 CFR 261, Appendix II, 1993 ed., as amended by 58 FR 46040, August 31, 1993.

Bold = Result exceeds ADEC Most Stringent.

- = no criteria/not analyzed

[] = limit of detection (LOD)

CAS = Chemical Abstracts Service

GCL/SCL = groundwater/soil cleanup level

ID = identification

mg/kg = milligram(s) per kilogram

ND = nondetect

QA/QC = quality assurance/quality control

SDG = sample delivery group

TCLP = Toxicity Characteristic Leaching Procedure

- J = The result is an estimated value because it was greater than the DL but less than the limit of quantitation.
- E = The result was nondetect (ND) and the limit of detection (LOD) exceeds the GCL or SCL.
- B = The analyte was detected in the method blank, trip blank or equipment blank and the concentration in the sample did not exceed the blank concentration by a factor of 5.
- JL = The result was an estimated value biased high (+) or low (-) because the analyte failed recovery criteria in the LCS or LCSD sample or both.

¹ ADEC Table B1 and B2, Most stringent of Human Health (Under 40 inch zone) and migration to groundwater (ADEC 2021).

					Location ID:	SB13	SB13	TB01S
					Sample ID:	22MAH-SB13-SO8-10	22MAH-SB13-SO10-10_5	22MAH-TB01S
					SDG:	1225240	1225240	1225240
					Lab Sample ID:	1225240004	1225240003	1225240015
					Sample Date/Time:	08/24/2022 16:15:00	08/24/2022 16:00:00	08/24/2022 08:00:00
					Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental
					QA/QC:	Primay Sample	Primay Sample	Trip Blank
CAS Number	Method	Analyte	Units	SCL ¹	20 Times TCLP ²			
-	A2540G	Total Solids	Percent	-	-	74.8	76.7	-
-	AK101	GRO	mg/kg	300	-	4.13 [3.97] J,B	3.55 [3.97] J,B	1.01 [1.26] J,B
-	AK102	DRO	mg/kg	250	-	19 [13.2] J,B	15.2 [12.9] J,B	-
-	AK103	RRO	mg/kg	10000	-	169 [66]	106 [64.5] J	-
7439-92-1	6020B	Lead	mg/kg	400	100	12.2 [0.123]	10.4 [0.128]	-
630-20-6	8260D	1,1,1,2-Tetrachloroethane	mg/kg	0.022	-	ND [0.0317] E	ND [0.0318] E	ND [0.0101]
71-55-6	8260D	1,1,1-Trichloroethane	mg/kg	32	-	ND [0.0396]	ND [0.0396]	ND [0.0126]
79-34-5	8260D	1,1,2,2-Tetrachloroethane	mg/kg	0.003	-	ND [0.00317] E	ND [0.00317] E	ND [0.00101]
79-00-5	8260D	1,1,2-Trichloroethane	mg/kg	0.0014	-	ND [0.00159] E	ND [0.00159] E	ND [0.000505]
75-34-3	8260D	1,1-Dichloroethane	mg/kg	0.092	-	ND [0.0396]	ND [0.0396]	ND [0.0126]
75-35-4	8260D	1,1-Dichloroethene	mg/kg	1.2	14	ND [0.0396]	ND [0.0396]	ND [0.0126]
563-58-6	8260D	1,1-Dichloropropene	mg/kg	-	-	ND [0.0396]	ND [0.0396]	ND [0.0126]
96-18-4	8260D	1,2,3-TCP	mg/kg	0.000031	-	ND [0.00317] E	ND [0.00317] E	ND [0.00101] E
87-61-6	8260D	1,2,3-Trichlorobenzene	mg/kg	0.15	-	ND [0.159] E	ND [0.159] E	ND [0.0505]
95-63-6	8260D	1,2,4-TMB	mg/kg	0.61	-	ND [0.159]	ND [0.159]	ND [0.0505]
120-82-1	8260D	1,2,4-Trichlorobenzene	mg/kg	0.082	-	ND [0.0396]	ND [0.0396]	ND [0.0126]
96-12-8	8260D	1,2-Dibromo-3-chloropropane	mg/kg	-	-	ND [0.159] E	ND [0.159] E	ND [0.0505] E
95-50-1	8260D	1,2-Dichlorobenzene	mg/kg	2.4	-	ND [0.0396]	ND [0.0396]	ND [0.0126]
107-06-2	8260D	1,2-Dichloroethane	mg/kg	0.0055	10	ND [0.00317]	ND [0.00317]	ND [0.00101]
78-87-5	8260D	1,2-Dichloropropane	mg/kg	0.03	-	ND [0.0159]	ND [0.0159]	ND [0.00505]
108-67-8	8260D	1,3,5-TMB	mg/kg	0.66	-	0.0277 [0.0396] J	ND [0.0396]	ND [0.0126]
541-73-1	8260D	1,3-Dichlorobenzene	mg/kg	2.3	-	ND [0.0396]	ND [0.0396]	ND [0.0126]
142-28-9	8260D	1,3-Dichloropropane	mg/kg	1600	-	ND [0.0159]	ND [0.0159]	ND [0.00505]
106-46-7	8260D	1,4-Dichlorobenzene	mg/kg	0.037	150	ND [0.0396] E	ND [0.0396] E	ND [0.0126]
594-20-7	8260D	2,2-Dichloropropane	mg/kg	-	-	ND [0.0396]	ND [0.0396]	ND [0.0126]
95-49-8	8260D	2-Chlorotoluene	mg/kg	-	-	ND [0.0396]	ND [0.0396]	ND [0.0126]
591-78-6	8260D	2-Hexanone	mg/kg	0.11	-	ND [0.19] E	ND [0.191] E	ND [0.0605]
106-43-4	8260D	4-Chlorotoluene	mg/kg	-	-	ND [0.0317]	ND [0.0318]	ND [0.0101]
108-10-1	8260D	4-Methyl-2-Pentanone	mg/kg	18	-	ND [0.397]	ND [0.397]	ND [0.126]
67-64-1	8260D	Acetone	mg/kg	38	-	ND [0.397]	ND [0.397]	ND [0.126]
71-43-2	8260D	Benzene	mg/kg	0.022	10	ND [0.0198]	ND [0.0199]	ND [0.0063]
108-86-1	8260D	Bromobenzene	mg/kg	0.36	-	ND [0.0396]	ND [0.0396]	ND [0.0126]
74-97-5 75-27-4	8260D 8260D	Bromochloromethane Bromodichloromethane	mg/kg	0.0043	-	ND [0.0396] ND [0.00317]	ND [0.0396] ND [0.00317]	ND [0.0126] ND [0.00101]
75-27-4 75-25-2	8260D 8260D	Bromodicnioromethane	mg/kg	0.0043	-	ND [0.00317] ND [0.0396]	ND [0.00317] ND [0.0396]	ND [0.00101] ND [0.0126]
75-25-2 74-83-9	8260D 8260D	Bromororm	mg/kg	0.024	-	ND [0.0396] ND [0.0317] E	ND [0.0396] ND [0.0318] E	ND [0.0126] ND [0.0101]
74-83-9 75-15-0	8260D 8260D	Carbon Disulfide	mg/kg mg/kg	2.9	-	ND [0.0317] E ND [0.159]	ND [0.0318] E ND [0.159]	ND [0.0101] ND [0.0505]
75-15-0 56-23-5	8260D 8260D	Carbon Disulfide Carbon Tetrachloride	mg/kg mg/kg	0.021	- 10	ND [0.159] ND [0.0198]	ND [0.159] ND [0.0199]	ND [0.0505] ND [0.0063]
108-90-7	8260D	Carbon retrachionde Chlorobenzene	mg/kg	0.021	2000	ND [0.0196]	ND [0.0199] ND [0.0396]	ND [0.0063]
75-00-3	8260D	Chloroethane	mg/kg	72	2000	ND [0.0390]	ND [0.318]	ND [0.0120]
67-66-3	8260D	Chloroform	mg/kg	0.0071	120	ND [0.0095] E	ND [0.316] ND [0.0095] E	ND [0.00302]
74-87-3	8260D	Chloromethane	mg/kg	0.61	-	ND [0.0396]	ND [0.0396]	ND [0.00302]
-	8260D	cis-1,3-Dichloropropene	mg/kg	-	-	ND [0.0390]	ND [0.0390] ND [0.0199]	ND [0.0063]
156-59-2	8260D	cis-DCE	mg/kg	0.12	-	ND [0.0396]	ND [0.0396]	ND [0.0003]
98-82-8	8260D	Cumene	mg/kg	5.6	-	ND [0.0396]	ND [0.0396]	ND [0.0126]
	8260D	Dibromochloromethane	mg/kg	0.0027	-	ND [0.00795] E	ND [0.00795] E	ND [0.00252]
124-48-1			g/Ng					
124-48-1 74-95-3		Dibromomethane	mg/ka	0.025	-	ND [0.03961 F	ND [0.0396] F	ND [0 0126]
124-48-1 74-95-3 106-93-4	8260D 8260D	Dibromomethane EDB	mg/kg mg/kg	0.025 0.00024	-	ND [0.0396] E ND [0.00238] E	ND [0.0396] E ND [0.00238] E	ND [0.0126] ND [0.000755] E

					Location ID:	SB13	SB13	TB01S
					Sample ID: SDG:	22MAH-SB13-SO8-10	· · · · · · · · · · · · · · · · · · ·	22MAH-TB01S
						1225240	1225240	1225240
					Lab Sample ID:	1225240004	1225240003	1225240015
					Sample Date/Time:	08/24/2022 16:15:00	08/24/2022 16:00:00	08/24/2022 08:00:00
					Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental
					QA/QC:	Primay Sample	Primay Sample	Trip Blank
CAS Number	Method	Analyte	Units	SCL ¹	20 Times TCLP ²			
75-69-4	8260D	Freon-11	mg/kg	41	-	ND [0.0795]	ND [0.0795]	ND [0.0253]
-	8260D	Freon-113	mg/kg	-	-	ND [0.159]	ND [0.159]	ND [0.0505]
75-71-8	8260D	Freon-12	mg/kg	3.9	-	ND [0.159]	ND [0.159]	ND [0.0505]
87-68-3	8260D	Hexachlorobutadiene	mg/kg	0.02	10	ND [0.0317] E	ND [0.0318] E	ND [0.0101]
-	8260D	m,p-Xylene	mg/kg	-	-	0.113 [0.0795] J	0.0542 [0.0795] J	ND [0.0253]
78-93-3	8260D	MEK	mg/kg	15	4000	ND [0.397]	ND [0.397]	ND [0.126]
75-09-2	8260D	Methylene Chloride	mg/kg	0.33	-	ND [0.159]	ND [0.159]	ND [0.0505]
1634-04-4	8260D	MTBE	mg/kg	0.4	-	ND [0.159]	ND [0.159]	ND [0.0505]
91-20-3	8260D	Naphthalene	mg/kg	0.038	-	ND [0.0396] E	ND [0.0396] E	ND [0.0126]
104-51-8	8260D	n-Butylbenzene	mg/kg	20	-	ND [0.0396]	ND [0.0396]	ND [0.0126]
-	8260D	o-Xylene	mg/kg	-	<u>-</u>	ND [0.0396]	ND [0.0396]	ND [0.0126]
127-18-4	8260D	PCE	mg/kg	0.19	14	ND [0.0198]	ND [0.0199]	ND [0.0063]
99-87-6	8260D	p-Cymene	mg/kg	-	-	ND [0.127]	ND [0.127]	ND [0.0404]
103-65-1	8260D	Propylbenzene	mg/kg	9.1	-	ND [0.0396]	ND [0.0396]	ND [0.0126]
135-98-8	8260D	sec-Butylbenzene	mg/kg	28	-	ND [0.0396]	ND [0.0396]	ND [0.0126]
100-42-5	8260D	Styrene	mg/kg	10	-	ND [0.0396]	ND [0.0396]	ND [0.0126]
79-01-6	8260D	TCE	mg/kg	0.011	10	ND [0.0159] E	ND [0.0159] E	ND [0.00505]
98-06-6	8260D	tert-Butylbenzene	mg/kg	11	-	ND [0.0396]	ND [0.0396]	ND [0.0126]
108-88-3	8260D	Toluene	mg/kg	6.7	-	ND [0.0396]	ND [0.0396]	ND [0.0126]
542-75-6	8260D	trans-1,3-Dichloropropene	mg/kg	0.018	-	ND [0.0198] E	ND [0.0199] E	ND [0.0063]
156-60-5	8260D	trans-DCE	mg/kg	1.3	-	ND [0.0396]	ND [0.0396]	ND [0.0126]
75-01-4	8260D	VC	mg/kg	0.0008	4	ND [0.00127] E	ND [0.00127] E	ND [0.000404]
108-05-4 1330-20-7	8260D 8260D	Vinyl Acetate Xvlenes	mg/kg	1.1 1.5	-	ND [0.159]	ND [0.159]	ND [0.0505]
106-93-4	8260D-SIM	EDB	mg/kg	0.00024	-	0.113 [0.119] J	ND [0.119]	ND [0.0379]
90-12-0	8270DSIM	1-Methylnaphthalene	mg/kg mg/kg	0.00024	-	ND [0.000198] ND [0.0167]	ND [0.000199] ND [0.0159]	ND [0.000063]
91-57-6	8270DSIM	2-Methylnaphthalene	mg/kg	1.3	<u> </u>	ND [0.0167]	ND [0.0159]	-
83-32-9	8270DSIM	Acenaphthene	mg/kg	37	<u> </u>	ND [0.0167]	ND [0.0159] ND [0.0159]	-
208-96-8	8270DSIM	Acenaphthylene	mg/kg	18		ND [0.0167]	ND [0.0159]	-
120-12-7	8270DSIM	Anthracene	mg/kg	390		ND [0.0167]	ND [0.0159] ND [0.0159]	-
56-55-3	8270DSIM	Benzo(a)anthracene	mg/kg	0.7		ND [0.0167]	ND [0.0159]	-
50-32-8	8270DSIM	Benzo(a)pyrene	mg/kg	1.5		ND [0.0167]	ND [0.0159]	-
205-99-2	8270DSIM	Benzo(b)fluoranthene	mg/kg	15		ND [0.0167]	ND [0.0159]	-
191-24-2	8270DSIM	Benzo(g,h,i)perylene	mg/kg	2300	<u> </u>	ND [0.0167]	ND [0.0159]	-
207-08-9	8270DSIM	Benzo(k)fluoranthene	mg/kg	150	<u> </u>	ND [0.0167]	ND [0.0159]	-
218-01-9	8270DSIM	Chrysene	mg/kg	600	<u> </u>	ND [0.0167]	ND [0.0159]	-
53-70-3	8270DSIM	Dibenzo(a,h)anthracene	mg/kg	1.5	<u> </u>	ND [0.0167]	ND [0.0159]	-
206-44-0	8270DSIM	Fluoranthene	mg/kg	590	<u> </u>	ND [0.0167]	ND [0.0159]	-
86-73-7	8270DSIM	Fluorene	mg/kg	36	-	ND [0.0167]	ND [0.0159]	-
193-39-5	8270DSIM	Indeno(1,2,3-cd)pyrene	mg/kg	15	-	ND [0.0167]	ND [0.0159]	-

					Location ID:	SB13	SB13	TB01S
					Sample ID:	22MAH-SB13-SO8-10	22MAH-SB13-SO10-10_5	22MAH-TB01S
					SDG:	1225240	1225240	1225240
					Lab Sample ID:	1225240004	1225240003	1225240015
					Sample Date/Time:	08/24/2022 16:15:00	08/24/2022 16:00:00	08/24/2022 08:00:00
					Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental
					QA/QC:	Primay Sample	Primay Sample	Trip Blank
CAS Number	Method	Analyte	Units	SCL ¹	20 Times TCLP ²			
91-20-3	8270DSIM	Naphthalene	mg/kg	0.038	-	ND [0.0134]	ND [0.0128]	-
85-01-8	8270DSIM	Phenanthrene	mg/kg	39	-	ND [0.0167]	ND [0.0159]	-
129-00-0	8270DSIM	Pyrene	mg/kg	87	-	ND [0.0167]	ND [0.0159]	-

Notes:

²40 CFR 261, Appendix II, 1993 ed., as amended by 58 FR 46040, August 31, 1993.

Bold = Result exceeds ADEC Most Stringent.

- = no criteria/not analyzed

[] = limit of detection (LOD)

CAS = Chemical Abstracts Service

GCL/SCL = groundwater/soil cleanup level

ID = identification

mg/kg = milligram(s) per kilogram

ND = nondetect

QA/QC = quality assurance/quality control

SDG = sample delivery group

TCLP = Toxicity Characteristic Leaching Procedure

J = The result is an estimated value because it was greater than the DL but less than the limit of quantitation.

E = The result was nondetect (ND) and the limit of detection (LOD) exceeds the GCL or SCL.

B = The analyte was detected in the method blank, trip blank or equipment blank and the concentration in the sample did not exceed the blank concentration by a factor of 5.

JL = The result was an estimated value biased high (+) or low (-) because the analyte failed recovery criteria in the LCS or LCSD sample or both.

¹ ADEC Table B1 and B2, Most stringent of Human Health (Under 40 inch zone) and migration to groundwater (ADEC 2021).

					Location ID:	DR01	DR02	DR03	DR04	TB03W
					Sample ID:	22MAH-DR01-WW	22MAH-DR02-WW	22MAH-DR03-WW	22MAH-DR04-WW	22MAH-TB03W
					SDG:	1226337	1226337	1226337	1226337	1226337
				L	ab Sample ID:	1226337001	1226337002	1226337003	1226337004	1226337005
				Samp	ole Date/Time:	10/13/2022 10:40:00	10/13/2022 11:50:00	10/13/2022 12:30:00	10/13/2022 13:00:00	10/13/2022 08:00:00
				•	Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental
					QA/QC:	Primary Sample	Primary Sample	Primary Sample	Primary Sample	Trip Blank
CAS Number	Method	Analyte	Units	0011		,				
CAS Nullibel			0.11100	GCL ¹	RCRA TCLP ²	ND to ori	ND to oct	ND to ori	ND to oci	ND to off
-	AK101	GRO	mg/L	2.2	-	ND [0.05]	ND [0.05]	ND [0.05]	ND [0.05]	ND [0.05]
-	AK102	DRO RRO	mg/L	1.5	-	ND [0.306]	0.364 [0.319] J	ND [0.326]	ND [0.326]	-
- 7439-92-1	AK103 6020B	Lead	mg/L	1.1 0.015	-	0.216 [0.255] J	0.317 [0.266] J 0.000495 [0.0005] J.B	ND [0.272] 0.000991 [0.0005] J.B	ND [0.272] 0.000487 [0.0005] J.B	-
630-20-6	8260D		mg/L ma/L	0.015	5	0.000555 [0.0005] J,B			0.000487 [0.0005] J,B ND [0.00025]	- ND [0.00025]
71-55-6	8260D	1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane	ma/L	8	-	ND [0.00025] ND [0.0005]	ND [0.00025] ND [0.0005]	ND [0.00025] ND [0.0005]	ND [0.00025] ND [0.0005]	ND [0.00025] ND [0.0005]
79-34-5	8260D	, ,	,		-				ND [0.0005] ND [0.00025]	
79-34-5 79-00-5	8260D 8260D	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	mg/L	0.00076 0.00041		ND [0.00025]	ND [0.00025] ND [0.00021	ND [0.00025]		ND [0.00025]
79-00-5 75-34-3	8260D 8260D	1,1,2-1 richloroethane	mg/L mg/L	0.00041	-	ND [0.0002] ND [0.0005]	ND [0.0002] ND [0.0005]	ND [0.0002] ND [0.0005]	ND [0.0002] ND [0.0005]	ND [0.0002] ND [0.0005]
75-34-3	8260D	1,1-Dichloroethane	mg/L	0.028	0.7	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]
563-58-6	8260D	1,1-Dichloropropene	mg/L	0.20	-	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]
96-18-4	8260D	1,1-Dichloroproperie 1,2,3-TCP	mg/L	0.0000075	-	ND [0.0005] ND [0.0005] E	ND [0.0005] ND [0.0005] E	ND [0.0005] ND [0.0005] E	ND [0.0005] ND [0.0005] E	ND [0.0005] E
87-61-6	8260D	1,2,3-Trichlorobenzene	mg/L	0.0000073	-	ND [0.0005] E	ND [0.0005] E ND [0.0005]	ND [0.0005] E	ND [0.0005] E	ND [0.0005] E
95-63-6	8260D	1.2.4-TMB	mg/L	0.056	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
120-82-1	8260D	1.2.4-Trichlorobenzene	mg/L	0.004	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
96-12-8	8260D	1,2-Dibromo-3-chloropropane	mg/L	-	-	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
95-50-1	8260D	1.2-Dishorno-o-chioroproparie	mg/L	0.3	-	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
107-06-2	8260D	1,2-Dichloroethane	ma/L	0.0017	0.5	ND [0.0003]	ND [0.0003]	ND [0.0003]	ND [0.0003]	ND [0.0003]
78-87-5	8260D	1,2-Dichloropropane	ma/L	0.0017	-	ND [0.00023]	ND [0.00023]	ND [0.00023]	ND [0.00023]	ND [0.00023]
108-67-8	8260D	1.3.5-TMB	mg/L	0.0062	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
541-73-1	8260D	1,3-Dichlorobenzene	mg/L	0.3	_	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
142-28-9	8260D	1,3-Dichloropropane	mg/L	-	_	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
106-46-7	8260D	1,4-Dichlorobenzene	mg/L	0.0048	7.5	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
594-20-7	8260D	2,2-Dichloropropane	mg/L	-	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
95-49-8	8260D	2-Chlorotoluene	mg/L	_	_	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
591-78-6	8260D	2-Hexanone	mg/L	0.038	_	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
106-43-4	8260D	4-Chlorotoluene	mg/L	-	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
108-10-1	8260D	4-Methyl-2-Pentanone	mg/L	6.3	-	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
71-43-2	8260D	Benzene	mg/L	0.0046	0.5	ND [0.0002]	ND [0.0002]	ND [0.0002]	ND [0.0002]	ND [0.0002]
108-86-1	8260D	Bromobenzene	mg/L	0.062	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
74-97-5	8260D	Bromochloromethane	mg/L	-	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
75-27-4	8260D	Bromodichloromethane	mg/L	0.0013	-	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
75-25-2	8260D	Bromoform	mg/L	0.033	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
74-83-9	8260D	Bromomethane	mg/L	0.0075	-	ND [0.003]	ND [0.003]	ND [0.003]	ND [0.003]	ND [0.003]
75-15-0	8260D	Carbon Disulfide	mg/L	0.81	-	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
56-23-5	8260D	Carbon Tetrachloride	mg/L	0.0046	0.5	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
108-90-7	8260D	Chlorobenzene	mg/L	0.078	100	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
75-00-3	8260D	Chloroethane	mg/L	21	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
67-66-3	8260D	Chloroform	mg/L	0.0022	6	0.00336 [0.0005]	0.00448 [0.0005]	0.00305 [0.0005]	0.00797 [0.0005]	ND [0.0005]
74-87-3	8260D	Chloromethane	mg/L	0.19	-	ND [0.0005]	ND [0.0005]	0.00035 [0.0005] J	0.00038 [0.0005] J	ND [0.0005]
542-75-6	8260D	cis-1,3-Dichloropropene	mg/L	0.0047	-	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
156-59-2	8260D	cis-DCE	mg/L	0.036	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
98-82-8	8260D	Cumene	mg/L	0.45	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
124-48-1	8260D	Dibromochloromethane	mg/L	0.0087	-	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
74-95-3	8260D	Dibromomethane	mg/L	0.0083	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
106-93-4	8260D	EDB	mg/L	0.000075	-	ND [0.0000375]	ND [0.0000375]	ND [0.0000375]	ND [0.0000375]	ND [0.0000375]
100-41-4	8260D	Ethylbenzene	mg/L	0.015	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
75-69-4	8260D	Freon-11	mg/L	5.2	-	ND [0.0005]	ND [0.0005]	0.00046 [0.0005] J	ND [0.0005]	ND [0.0005]
_	8260D	Freon-113	mg/L	-	-	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]

T	Leastion ID: DD00 DD00 DD00 TD00W											
					Location ID:	DR01	DR02	DR03	DR04	TB03W		
					Sample ID:	22MAH-DR01-WW	22MAH-DR02-WW	22MAH-DR03-WW	22MAH-DR04-WW	22MAH-TB03W		
					SDG:	1226337	1226337	1226337	1226337	1226337		
					ab Sample ID:	1226337001	1226337002	1226337003	1226337004	1226337005		
				Sam	ple Date/Time:	10/13/2022 10:40:00	10/13/2022 11:50:00	10/13/2022 12:30:00	10/13/2022 13:00:00	10/13/2022 08:00:00		
					Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental		
					QA/QC:	Primary Sample	Primary Sample	Primary Sample	Primary Sample	Trip Blank		
CAS Number	Method	Analyte	Units	GCL ¹	RCRA TCLP ²							
75-71-8	8260D	Freon-12	mg/L	0.2	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]		
87-68-3	8260D	Hexachlorobutadiene	mg/L	0.0014	0.5	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]		
-	8260D	m,p-Xylene	mg/L	-	-	ND [0.001]	ND [0.001]	ND [0.001]	ND [0.001]	ND [0.001]		
78-93-3	8260D	MEK	mg/L	5.6	200	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]		
75-09-2	8260D	Methylene Chloride	mg/L	0.11	-	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	0.0468 [0.005]		
1634-04-4	8260D	MTBE	mg/L	0.14	-	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]		
91-20-3	8260D	Naphthalene	mg/L	0.0017	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]		
104-51-8	8260D	n-Butylbenzene	mg/L	1	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]		
-	8260D	o-Xylene	mg/L	-	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]		
127-18-4	8260D	PCE	mg/L	0.041	0.7	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]		
99-87-6	8260D	p-Cymene	mg/L		-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]		
103-65-1	8260D	Propylbenzene	mg/L	0.66	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]		
135-98-8	8260D	sec-Butylbenzene	mg/L	2	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]		
100-42-5	8260D	Styrene	mg/L	1.2	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]		
79-01-6	8260D	TCE	mg/L	0.0028	0.5	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]		
98-06-6	8260D	tert-Butylbenzene	mg/L	0.69	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]		
108-88-3	8260D	Toluene	mg/L	1.1	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]		
542-75-6	8260D	trans-1,3-Dichloropropene	mg/L	0.0047	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]		
156-60-5	8260D	trans-DCE VC	mg/L	0.36	0.2	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]		
75-01-4 108-05-4	8260D 8260D	Vinvl Acetate	mg/L	0.00019		ND [0.000075]	ND [0.000075]	ND [0.000075] ND [0.005]	ND [0.00075] ND [0.005]	ND [0.000075] ND [0.005]		
1330-20-7	8260D 8260D	,	mg/L ma/L	0.41 0.19	-	ND [0.005] ND [0.0015]	ND [0.005] ND [0.0015]	ND [0.005] ND [0.0015]	ND [0.005] ND [0.0015]	ND [0.005] ND [0.0015]		
106-93-4	8260D-SIM	Xylenes EDB	J -	0.000075	-	ND [0.0015]	ND [0.0015] ND [0.000025]	ND [0.0015] ND [0.000025]	ND [0.0015] ND [0.000025]	ND [0.0015]		
90-12-0	8270DSIM	1-Methylnaphthalene	mg/L mg/L	0.000075	-	ND [0.000025]	ND [0.000025]	ND [0.000025]	ND [0.000025]	ND [0.0000025]		
91-57-6	8270DSIM	2-Methylnaphthalene	mg/L	0.011	-	ND [0.000025]	ND [0.0000255]	ND [0.000266]	0.0000169 [0.0000272] J	-		
83-32-9	8270DSIM	Acenaphthene	mg/L	0.53	_	ND [0.000025]	ND [0.0000255]	ND [0.000266]	ND [0.0000272]			
208-96-8	8270DSIM	Acenaphthylene	mg/L	0.33	-	ND [0.000025]	ND [0.0000255]	ND [0.000266]	ND [0.0000272]	-		
120-12-7	8270DSIM	Anthracene	mg/L	0.20	_	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]			
56-55-3	8270DSIM	Benzo(a)anthracene	mg/L	0.0003	_	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	_		
50-32-8	8270DSIM	Benzo(a)pyrene	mg/L	0.00025	-	ND [0.000023]	ND [0.0000102]	ND [0.0000200]	ND [0.0000272]	_		
205-99-2	8270DSIM	Benzo(b)fluoranthene	mg/L	0.0025	_	ND [0.000025]	ND [0.0000255]	ND [0.0000167]	ND [0.0000272]	-		
191-24-2	8270DSIM	Benzo(g,h,i)perylene	mg/L	0.00026	_	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	-		
207-08-9	8270DSIM	Benzo(k)fluoranthene	mg/L	0.0008	_	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	_		
218-01-9	8270DSIM	Chrysene	mg/L	0.002	_	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	_		
53-70-3	8270DSIM	Dibenzo(a,h)anthracene	mg/L	0.00025	_	ND [0.00001]	ND [0.0000102]	ND [0.0000107]	ND [0.0000109]	-		
206-44-0	8270DSIM	Fluoranthene	mg/L	0.26	-	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	-		
86-73-7	8270DSIM	Fluorene	mg/L	0.29	-	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	-		
193-39-5	8270DSIM	Indeno(1,2,3-cd)pyrene	mg/L	0.00019	-	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	-		
91-20-3	8270DSIM	Naphthalene	mg/L	0.0017	-	ND [0.00005]	ND [0.000051]	ND [0.000053]	ND [0.0000545]	-		
85-01-8	8270DSIM	Phenanthrene	mg/L	0.17	-	ND [0.00005]	ND [0.000051]	ND [0.000053]	ND [0.0000545]	-		
129-00-0	8270DSIM	Pyrene	mg/L	0.12	-	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	-		
757124-72-4	EPA 537M BY ID	4:2 Fluorotelomer sulfonate	mg/L	-	-	ND [0.000011]	ND [0.00001]	ND [0.000013]	ND [0.000056]	-		
27619-97-2	EPA 537M BY ID	6:2 Fluorotelomer sulfonate	mg/L	-	-	0.0000061 [0.000011] J	ND [0.00001]	ND [0.000013]	ND [0.000056]	-		
39108-34-4	EPA 537M BY ID	8:2 Fluorotelomer sulfonate	mg/L	-	-	ND [0.000011]	ND [0.00001]	ND [0.000013]	ND [0.000056]	-		
2991-50-6	EPA 537M BY ID	EtFOSAA	mg/L	-	-	ND [0.000056]	ND [0.00001]	ND [0.000013]	ND [0.000056]	-		
2355-31-9	EPA 537M BY ID	MeFOSAA	mg/L	-	-	ND [0.000056]	ND [0.00001]	ND [0.000013]	ND [0.000056]	-		
335-77-3	EPA 537M BY ID	Perfluorodecanesulfonic acid	mg/L	-	-	ND [0.000028]	ND [0.000005]	ND [0.0000067]	ND [0.000028]	-		
68259-12-1	EPA 537M BY ID	Perfluorononanesulfonic acid	mg/L	-	-	ND [0.0000056]	ND [0.000005]	ND [0.0000067]	ND [0.000028]	-		
2706-91-4	EPA 537M BY ID	Perfluoropentanesulfonic acid	mg/L	-	-	ND [0.000056]	ND [0.000005]	0.000004 [0.0000067] J	ND [0.000028]	-		

Territoria de la constanta de							-			
					Location ID:	DR01	DR02	DR03	DR04	TB03W
					Sample ID:	22MAH-DR01-WW	22MAH-DR02-WW	22MAH-DR03-WW	22MAH-DR04-WW	22MAH-TB03W
	SDG:						1226337	1226337	1226337	1226337
				L	ab Sample ID:	1226337001	1226337002	1226337003	1226337004	1226337005
				Sam	ple Date/Time:	10/13/2022 10:40:00	10/13/2022 11:50:00	10/13/2022 12:30:00	10/13/2022 13:00:00	10/13/2022 08:00:00
					Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental
					QA/QC:	Primary Sample	Primary Sample	Primary Sample	Primary Sample	Trip Blank
CAS Number	Method	Analyte	Units	GCL ¹	RCRA TCLP ²					·
2706-90-3	EPA 537M BY ID	Perfluoropentanoic acid	mg/L	-	-	0.0000108 [0.0000056] J	0.0000095 [0.000005] J	0.0000071 [0.0000067] J	ND [0.000028]	-
376-06-7	EPA 537M BY ID	Perfluorotetradecanoic acid	mg/L	-	-	ND [0.0000056]	ND [0.000005]	ND [0.0000067]	ND [0.000028]	-
72629-94-8	EPA 537M BY ID	Perfluorotridecanoic acid	mg/L	-	-	ND [0.000028]	ND [0.000025]	ND [0.0000067]	ND [0.000028]	-
375-22-4	EPA 537M BY ID	PFBA	mg/L	-	-	0.0000276 [0.000011]	0.0000078 [0.00001] J	0.000011 [0.000013] J	ND [0.000056]	-
375-73-5	EPA 537M BY ID	PFBS	mg/L	-	-	ND [0.0000056]	0.0000197 [0.000005]	0.0000105 [0.0000067] J	ND [0.000028]	-
335-76-2	EPA 537M BY ID	PFDA	mg/L	-	-	ND [0.000028]	ND [0.000005]	ND [0.0000067]	ND [0.000028]	-
307-55-1	EPA 537M BY ID	PFDoA	mg/L	-	-	ND [0.000028]	ND [0.000025]	ND [0.0000067]	ND [0.000028]	-
375-85-9	EPA 537M BY ID	PFHpA	mg/L	-	-	0.0000065 [0.0000056] J	0.0000067 [0.000005] J	0.0000046 [0.0000067] J	ND [0.000028]	-
375-92-8	EPA 537M BY ID	PFHPS	mg/L	-	-	ND [0.0000056]	ND [0.000005]	ND [0.0000067]	ND [0.000028]	-
307-24-4	EPA 537M BY ID	PFHxA	mg/L	-	-	0.0000189 [0.0000056]	0.0000105 [0.000005]	0.00001 [0.0000067] J	ND [0.000028]	-
355-46-4	EPA 537M BY ID	PFHxS	mg/L	-	-	0.0000316 [0.0000056]	0.0000508 [0.000005]	0.0000255 [0.0000067]	0.0000506 [0.000028] J	-
375-95-1	EPA 537M BY ID	PFNA	mg/L	-	-	0.0000106 [0.0000056] J	0.0000059 [0.000005] J	0.0000094 [0.0000067] J	ND [0.000028]	-
335-67-1	EPA 537M BY ID	PFOA	mg/L	0.0004	-	0.000009 [0.0000056] J	0.0000159 [0.000005]	0.000009 [0.0000067] J	ND [0.000028]	-
1763-23-1	EPA 537M BY ID	PFOS	mg/L	0.0004	-	0.0000343 [0.0000056]	0.0000176 [0.000005]	0.0000114 [0.0000067] J	0.0000176 [0.000028] J	-
754-91-6	EPA 537M BY ID	PFOSA	mg/L	-	-	ND [0.000056]	ND [0.00001]	ND [0.000013]	ND [0.000056]	-
2058-94-8	EPA 537M BY ID	PFUnA	mg/L	-	-	ND [0.000028]	ND [0.000005]	ND [0.0000067]	ND [0.000028]	-

Notes:

Bold = Result exceeds ADEC Groundwater Human Health Levels.

Bold = The result exceeds RCRA TCLP.

- = no criteria/not analyzed

[] = limit of detection (LOD)

CAS = Chemical Abstracts Service

GCL/SCL = groundwater/soil cleanup level

ID = identification

mg/L = milligram(s) per liter

ND = nondetect

QA/QC = quality assurance/quality control

RCRA = Resource Conservation Recovery Act

SDG = sample delivery group

TCLP = Toxicity Characteristic Leaching Procedure

- J = The result is an estimated value because it was greater than the DL but less than the limit of quantitation.
- E = The result was nondetect (ND) and the limit of detection (LOD) exceeds the GCL or SCL.
- B = The analyte was detected in the method blank, trip blank or equipment blank and the concentration in the sample did not exceed the blank concentration by a factor of 5.

¹ 18 AAC 75. Table C Groundwater Human Health Cleanup Levels (ADEC 2021)

 $^{^{2}}$ 40 CFR 261, Appendix II, 1993 ed., as amended by 58 FR 46040, August 31, 1993.

		Location ID: Sample ID: SDG: Lab Sample ID:	DR-SO 22MAH-DR-SO 1226513 1226513001	TB Trip Blank 1226513 1226513002			
				3	Sample Date/Time: Laboratory: QA/QC:	10/20/2022 15:55:00 SGS Environmental Primary Sample	10/20/2022 00:00:00 SGS Environmental Trip Blank
CAS Number	Method	Analyte	Units	SCL ¹	RCRA 20 Times TCLP ²		
-	A2540G	Total Solids	Percent	-	-	87.2	-
	AK101 AK102	GRO DRO	mg/kg	300 250	-	2.8 [3.31] J,B ND [11.4]	1.17 [1.26] J,B
-	AK102 AK103	RRO	mg/kg mg/kg	10000	-	79.3 [57] J	-
7439-92-1	6020B	Lead	mg/kg	400	100	8.98 [0.115]	-
630-20-6	8260D	1,1,1,2-Tetrachloroethane	mg/kg	0.022	-	ND [0.0265] E	ND [0.0101]
71-55-6 79-34-5	8260D 8260D	1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane	mg/kg mg/kg	32 0.003	-	ND [0.0331] ND [0.00265]	ND [0.0126] ND [0.001]
79-00-5	8260D	1,1,2-Trichloroethane	mg/kg	0.003	-	ND [0.00203]	ND [0.001]
75-34-3	8260D	1,1-Dichloroethane	mg/kg	0.092	-	ND [0.0331]	ND [0.0126]
75-35-4	8260D	1,1-Dichloroethene	mg/kg	1.2	14	ND [0.0331]	ND [0.0126]
563-58-6 96-18-4	8260D 8260D	1,1-Dichloropropene 1,2,3-TCP	mg/kg mg/kg	0.000031	-	ND [0.0331] ND [0.00265] E	ND [0.0126] ND [0.001] E
87-61-6	8260D	1,2,3-1CF 1,2,3-Trichlorobenzene	mg/kg	0.000031	-	ND [0.133]	ND [0.0505]
95-63-6	8260D	1,2,4-TMB	mg/kg	0.61	-	ND [0.133]	ND [0.0505]
120-82-1	8260D	1,2,4-Trichlorobenzene	mg/kg	0.082	-	ND [0.0331]	ND [0.0126]
96-12-8 95-50-1	8260D 8260D	1,2-Dibromo-3-chloropropane 1,2-Dichlorobenzene	mg/kg mg/kg	0.0053 2.4	-	ND [0.133] E ND [0.0331]	ND [0.0505] E ND [0.0126]
107-06-2	8260D	1,2-Dichloroethane	mg/kg	0.0055	10	ND [0.00265]	ND [0.001]
78-87-5	8260D	1,2-Dichloropropane	mg/kg	0.03	-	ND [0.0133]	ND [0.00505]
108-67-8	8260D	1,3,5-TMB	mg/kg	0.66	-	ND [0.0331]	ND [0.0126]
541-73-1 142-28-9	8260D 8260D	1,3-Dichlorobenzene 1,3-Dichloropropane	mg/kg mg/kg	2.3 1600	-	ND [0.0331] ND [0.0133]	ND [0.0126] ND [0.00505]
106-46-7	8260D	1,4-Dichlorobenzene	mg/kg	0.037	150	ND [0.0331]	ND [0.0126]
594-20-7	8260D	2,2-Dichloropropane	mg/kg	-	-	ND [0.0331]	ND [0.0126]
95-49-8	8260D	2-Chlorotoluene	mg/kg	1600	-	ND [0.0331]	ND [0.0126]
591-78-6 106-43-4	8260D 8260D	2-Hexanone 4-Chlorotoluene	mg/kg mg/kg	0.11 1600	-	ND [0.159] E ND [0.0265]	ND [0.0605] ND [0.0101]
108-10-1	8260D	4-Methyl-2-Pentanone	mg/kg	18	-	ND [0.332]	ND [0.126]
67-64-1	8260D	Acetone	mg/kg	38	-	ND [0.332]	ND [0.126]
71-43-2	8260D	Benzene	mg/kg	0.022	10	ND [0.0166]	ND [0.0063]
108-86-1 74-97-5	8260D 8260D	Bromobenzene Bromochloromethane	mg/kg mg/kg	0.36 150	-	ND [0.0331] ND [0.0331]	ND [0.0126] ND [0.0126]
75-27-4	8260D	Bromodichloromethane	mg/kg	0.0043	-	ND [0.00265]	ND [0.001]
75-25-2	8260D	Bromoform	mg/kg	0.1	-	ND [0.0331]	ND [0.0126]
74-83-9	8260D	Bromomethane	mg/kg	0.024	-	ND [0.0265] E	ND [0.0101] ND [0.0505]
75-15-0 56-23-5	8260D 8260D	Carbon Disulfide Carbon Tetrachloride	mg/kg mg/kg	2.9 0.021	- 10	ND [0.133] ND [0.0166]	ND [0.0505] ND [0.0063]
108-90-7	8260D	Chlorobenzene	mg/kg	0.46	2000	ND [0.0331]	ND [0.0126]
75-00-3	8260D	Chloroethane	mg/kg	72	-	ND [0.265]	ND [0.101]
67-66-3 74-87-3	8260D 8260D	Chloroform	mg/kg	0.0071 0.61	120	ND [0.00795] E	ND [0.00302] ND [0.0126]
-	8260D	Chloromethane cis-1,3-Dichloropropene	mg/kg mg/kg	-	-	ND [0.0331] ND [0.0166]	ND [0.0126] ND [0.0063]
156-59-2	8260D	cis-DCE	mg/kg	0.12	-	ND [0.0331]	ND [0.0126]
98-82-8	8260D	Cumene	mg/kg	5.6	-	ND [0.0331]	ND [0.0126]
124-48-1 74-95-3	8260D 8260D	Dibromochloromethane Dibromomethane	mg/kg mg/kg	0.0027 0.025	-	ND [0.00665] E ND [0.0331] E	ND [0.00252] ND [0.0126]
106-93-4	8260D	EDB	mg/kg	0.0025	-	ND [0.0331] E ND [0.00199] E	ND [0.00755] E
100-41-4	8260D	Ethylbenzene	mg/kg	0.13	-	ND [0.0331]	ND [0.0126]
75-69-4	8260D	Freon-11	mg/kg	41	-	ND [0.0665]	ND [0.0252]
- 75-71-8	8260D 8260D	Freon-113 Freon-12	mg/kg mg/kg	3.9	-	ND [0.133] ND [0.133]	ND [0.0505] ND [0.0505]
87-68-3	8260D	Hexachlorobutadiene	mg/kg	0.02	10	ND [0.133] ND [0.0265] E	ND [0.0303] ND [0.0101]
-	8260D	m,p-Xylene	mg/kg	-	-	ND [0.0665]	ND [0.0252]
78-93-3	8260D	MEK Mathylana Chlorida	mg/kg	15	4000	ND [0.332]	ND [0.126]
75-09-2 1634-04-4	8260D 8260D	Methylene Chloride MTBE	mg/kg mg/kg	0.33 0.4	-	ND [0.133] ND [0.133]	ND [0.0505] ND [0.0505]
91-20-3	8260D	Naphthalene	mg/kg	0.038	-	ND [0.0331]	ND [0.0303]
104-51-8	8260D	n-Butylbenzene	mg/kg	20	-	ND [0.0331]	ND [0.0126]
-	8260D	o-Xylene	mg/kg	-	-	ND [0.0331]	ND [0.0126]
127-18-4 99-87-6	8260D 8260D	PCE p-Cymene	mg/kg mg/kg	0.19	14 -	ND [0.0166] ND [0.106]	ND [0.0063] ND [0.0403]
103-65-1	8260D	Propylbenzene	mg/kg	9.1	-	ND [0.106] ND [0.0331]	ND [0.0403] ND [0.0126]
135-98-8	8260D	sec-Butylbenzene	mg/kg	28	-	ND [0.0331]	ND [0.0126]
100-42-5	8260D	Styrene	mg/kg	10	-	ND [0.0331]	ND [0.0126]
79-01-6 98-06-6	8260D 8260D	TCE tert-Butylbenzene	mg/kg mg/kg	0.011 11	10 -	ND [0.0133] E ND [0.0331]	ND [0.00505] ND [0.0126]
108-88-3	8260D 8260D	Toluene	mg/kg mg/kg	6.7	-	ND [0.0331] ND [0.0331]	ND [0.0126] ND [0.0126]

					Location ID:	DR-SO	ТВ
					Sample ID:	22MAH-DR-SO	Trip Blank
					SDG:	1226513	1226513
				,	Lab Sample ID:	1226513001	1226513002
				•	Sample Date/Time:	10/20/2022 15:55:00	10/20/2022 00:00:00 SGS Environmental
					Laboratory: QA/QC:	SGS Environmental Primary Sample	Trip Blank
						i ililiary Gampie	TTIP DIATIK
CAS Number	Method	Analyte	Units	SCL1	RCRA 20		
542-75-6	8260D	trans-1,3-Dichloropropene	mg/kg	0.018	Times TCLP ²	ND [0.0166]	ND [0.0063]
156-60-5	8260D	trans-DCE	mg/kg	1.3	-	ND [0.0331]	ND [0.0063] ND [0.0126]
75-01-4	8260D	VC	mg/kg	0.0008	4	ND [0.00106] E	ND [0.000403]
108-05-4	8260D	Vinyl Acetate	mg/kg	1.1	-	ND [0.133]	ND [0.0505]
1330-20-7	8260D	Xylenes	mg/kg	1.5	-	ND [0.0995]	ND [0.0378]
106-93-4	8260D-SIM	EDB	mg/kg	0.00024	-	ND [0.000166]	ND [0.000063]
120-82-1 95-50-1	8270D 8270D	1,2,4-Trichlorobenzene 1,2-Dichlorobenzene	mg/kg	0.082 2.4	-	ND [0.284] E ND [0.284]	-
541-73-1	8270D	1,3-Dichlorobenzene	mg/kg mg/kg	2.4	-	ND [0.264] ND [1.14]	-
106-46-7	8270D	1,4-Dichlorobenzene	mg/kg	0.037	150	ND [0.284] E	-
-	8270D	1-Chloronaphthalene	mg/kg	-	-	ND [0.284]	-
90-12-0	8270D	1-Methylnaphthalene	mg/kg	0.41	-	ND [0.284]	-
95-95-4	8270D	2,4,5-Trichlorophenol	mg/kg	28	8000	ND [0.284]	-
88-06-2	8270D	2,4,6-Trichlorophenol	mg/kg	0.092	40	ND [1.14] E	-
120-83-2	8270D	2,4-Dichlorophenol	mg/kg	0.21	-	ND [0.284] E	-
105-67-9 51-28-5	8270D 8270D	2,4-Dimethylphenol 2,4-Dinitrophenol	mg/kg mg/kg	3.2 0.34	-	ND [0.57] ND [5.7] E	-
121-14-2	8270D	2,4-DINITrophenoi 2,4-DNT	mg/kg	0.024	2.6	ND [5.7] E ND [0.284] E	-
-	8270D	2,6-Dichlorophenol	mg/kg	-	-	ND [0.284]	-
606-20-2	8270D	2,6-DNT	mg/kg	0.005	-	ND [0.284] E	-
91-58-7	8270D	2-Chloronaphthalene	mg/kg	26	-	ND [0.284]	-
95-57-8	8270D	2-Chlorophenol	mg/kg	0.71	-	ND [0.284]	-
91-57-6	8270D	2-Methylnaphthalene	mg/kg	1.3	-	ND [0.284]	-
95-48-7 88-74-4	8270D 8270D	2-Methylphenol 2-Nitroaniline	mg/kg mg/kg	6.2 630	4000	ND [0.284] ND [0.284]	-
88-75-5	8270D	2-Nitrophenol	mg/kg	-	-	ND [0.284]	-
91-94-1	8270D	3,3'-Dichlorobenzidine	mg/kg	0.056	-	ND [1.14] E	-
99-09-2	8270D	3-Nitroaniline	mg/kg	-	-	ND [0.57]	-
534-52-1	8270D	4,6-Dinitro-2-methylphenol	mg/kg	5.1	-	ND [2.27]	-
101-55-3	8270D	4-Bromophenyl Phenyl Ether	mg/kg	-	-	ND [0.284]	-
59-50-7	8270D	4-Chloro-3-Methylphenol	mg/kg	6300	-	ND [0.284]	-
106-47-8 7005-72-3	8270D 8270D	4-Chloroaniline 4-Chlorophenyl Phenyl Ether	mg/kg mg/kg	0.015	-	ND [1.14] E ND [0.284]	-
100-01-6	8270D	4-Nitroaniline	mg/kg	27	-	ND [0.204] ND [3.42]	-
-	8270D	4-Nitrophenol	mg/kg	-	-	ND [2.27]	-
83-32-9	8270D	Acenaphthene	mg/kg	37	-	ND [0.284]	-
208-96-8	8270D	Acenaphthylene	mg/kg	18	-	ND [0.284]	-
-	8270D	Aniline	mg/kg	-	-	ND [4.55]	-
120-12-7	8270D 8270D	Anthracene Azobenzene	mg/kg	390	-	ND [0.284] ND [0.284]	-
56-55-3	8270D	Benzo(a)anthracene	mg/kg mg/kg	0.7	-	ND [0.284]	_
50-32-8	8270D	Benzo(a)pyrene	mg/kg	1.5	-	ND [0.284]	-
205-99-2	8270D	Benzo(b)fluoranthene	mg/kg	15	-	ND [0.284]	-
191-24-2	8270D	Benzo(g,h,i)perylene	mg/kg	2300	-	ND [0.284]	-
207-08-9	8270D	Benzo(k)fluoranthene	mg/kg	150	-	ND [0.284]	-
65-85-0	8270D	Benzoic Acid	mg/kg	200	-	ND [1.71]	-
100-51-6 85-68-7	8270D 8270D	Benzyl Alcohol Benzyl Butyl Phthalate	mg/kg mg/kg	5.7 16	-	ND [0.284] ND [0.284]	-
111-91-1	8270D	bis(2-Chlorethoxy)methane	mg/kg	190	-	ND [0.204] ND [2.27]	-
-	8270D	bis(2-Chloroethyl) Ether	mg/kg	-	-	ND [0.284]	-
108-60-1	8270D	bis(2-Chloroisopropyl) Ether	mg/kg	3100	-	ND [0.284]	-
117-81-7	8270D	bis(2-Ethylhexyl)phthalate	mg/kg	88	-	0.295 [0.284] J,B	-
-	8270D	Carbazole	mg/kg	-	-	ND [0.284]	-
218-01-9 53-70-3	8270D 8270D	Chrysene Dibenzo(a,h)anthracene	mg/kg	600 1.5	-	ND [0.284] ND [0.284]	-
132-64-9	8270D 8270D	Dibenzo(a,n)anthracene Dibenzofuran	mg/kg mg/kg	0.97	-	ND [0.284]	-
84-74-2	8270D	Dibutyl Phthalate	mg/kg	16	-	0.215 [0.284] J,B	-
84-66-2	8270D	Diethyl Phthalate	mg/kg	60	-	ND [0.284]	-
131-11-3	8270D	Dimethyl Phthalate	mg/kg	48	-	ND [0.284]	-
117-84-0	8270D	Di-n-octyl Phthalate	mg/kg	370	-	ND [0.57]	-
206-44-0	8270D	Fluoranthene	mg/kg	590	-	ND [0.284]	-
86-73-7 118-74-1	8270D 8270D	Fluorene Hexachlorobenzene	mg/kg	36 0.0082	2.6	ND [0.284] ND [0.284] E	-
87-68-3	8270D 8270D	Hexachlorobenzene Hexachlorobutadiene	mg/kg mg/kg	0.0082	10	ND [0.284] E ND [0.284] E	-
77-47-4	8270D	Hexachlorocyclopentadiene	mg/kg	0.0093	-	ND [0.795] E	-
67-72-1	8270D	Hexachloroethane	mg/kg	0.018	60	ND [0.284] E	-
193-39-5	8270D	Indeno(1,2,3-cd)pyrene	mg/kg	15	-	ND [0.284]	-
78-59-1	8270D	Isophorone	mg/kg	2.7	-	ND [0.284]	-

					Location ID:	DR-SO	ТВ
					Sample ID:	22MAH-DR-SO	Trip Blank
					SDG:	1226513	1226513
					Lab Sample ID:	1226513001	1226513002
				S	Sample Date/Time:	10/20/2022 15:55:00	10/20/2022 00:00:00
					Laboratory:	SGS Environmental	SGS Environmental
					QA/QC:	Primary Sample	Trip Blank
			T	1	RCRA 20		
CAS Number	Method	Analyte	Units	SCL ¹	Times TCLP ²		
-	8270D	m,p-Cresol	mg/kg	-	-	ND [1.14]	-
91-20-3	8270D	Naphthalene	mg/kg	0.038	-	ND [0.284] E	-
98-95-3	8270D	Nitrobenzene	mg/kg	0.0079	40	ND [0.284] E	-
62-75-9	8270D	n-Nitrosodimethylamine	mg/kg	0.0000033	-	ND [0.284] E	-
621-64-7	8270D	n-Nitrosodi-n-propylamine	mg/kg	0.00068	-	ND [0.284] E	-
86-30-6	8270D	n-Nitrosodiphenylamine	mg/kg	4.6	-	ND [0.284]	-
87-86-5	8270D	Pentachlorophenol	mg/kg	0.0043	2000	ND [4.55] E	-
85-01-8	8270D	Phenanthrene	mg/kg	39	-	ND [0.284]	-
108-95-2	8270D	Phenol	mg/kg	29	-	ND [0.284]	-
129-00-0	8270D	Pyrene	mg/kg	87	-	ND [0.284]	-
757124-72-4	EPA 537M BY ID	4:2 Fluorotelomer sulfonate	mg/kg	-	-	ND [0.00059]	-
27619-97-2	EPA 537M BY ID	6:2 Fluorotelomer sulfonate	mg/kg	-	-	ND [0.00059]	-
39108-34-4	EPA 537M BY ID	8:2 Fluorotelomer sulfonate	mg/kg	-	-	ND [0.00059]	-
2991-50-6	EPA 537M BY ID	EtFOSAA	mg/kg	-	-	ND [0.0012]	-
2355-31-9	EPA 537M BY ID	MeFOSAA	mg/kg	-	-	ND [0.0012]	-
335-77-3	EPA 537M BY ID	Perfluorodecanesulfonic acid	mg/kg	-	-	ND [0.00059]	-
68259-12-1	EPA 537M BY ID	Perfluorononanesulfonic acid	mg/kg	-	-	ND [0.00059]	-
2706-91-4	EPA 537M BY ID	Perfluoropentanesulfonic acid	mg/kg	-	-	ND [0.00059]	-
2706-90-3	EPA 537M BY ID	Perfluoropentanoic acid	mg/kg	-	-	ND [0.00059]	-
376-06-7	EPA 537M BY ID	Perfluorotetradecanoic acid	mg/kg	-	-	ND [0.00059]	-
72629-94-8	EPA 537M BY ID	Perfluorotridecanoic acid	mg/kg	-	-	ND [0.00059]	-
375-22-4	EPA 537M BY ID	PFBA	mg/kg	-	-	ND [0.00059]	-
375-73-5	EPA 537M BY ID	PFBS	mg/kg	-	-	ND [0.00059]	-
335-76-2	EPA 537M BY ID	PFDA	mg/kg	-	-	ND [0.00059]	-
307-55-1	EPA 537M BY ID	PFDoA	mg/kg	-	-	ND [0.00059]	-
375-85-9	EPA 537M BY ID	PFHpA	mg/kg	-	-	ND [0.00059]	-
375-92-8	EPA 537M BY ID	PFHPS	mg/kg	-	-	ND [0.00059]	-
307-24-4	EPA 537M BY ID	PFHxA	mg/kg	-	-	ND [0.00059]	-
355-46-4	EPA 537M BY ID	PFHxS	mg/kg	-	-	ND [0.00059]	-
375-95-1	EPA 537M BY ID	PFNA	mg/kg	-	-	ND [0.00059]	-
335-67-1	EPA 537M BY ID	PFOA	mg/kg	0.0017	-	ND [0.00059]	-
1763-23-1	EPA 537M BY ID	PFOS	mg/kg	0.003	-	ND [0.00059]	-
754-91-6	EPA 537M BY ID	PFOSA	mg/kg	-	-	ND [0.00059]	-
2058-94-8	EPA 537M BY ID	PFUnA	mg/kg	-	-	ND [0.00059]	-

Bold = The result exceeds RCRA 20 Times TCLP.

– = no criteria/not analyzed

[] = limit of detection (LOD)

ID = identification

mg/kg = milligram(s) per kilogram

ND = nondetect

QA/QC = quality assurance/quality control

SDG = sample delivery group

- J = The result is an estimated value because it was greater than the DL but less than the limit of quantitation.
- E = The result was nondetect (ND) and the limit of detection (LOD) exceeds the GCL or SCL.
- B = The analyte was detected in the method blank, trip blank or equipment blank and the concentration in the sample did not exceed the blank concentration by a factor of 5.

ADEC Table B1 and B2, Most stringent of Human Health (Under 40 inch zone) and migration to groundwater (ADEC 2021).

ADEC Table B Falld b2, Wood stringent of Hallach Today (240 CFR 261, Appendix II, 1993 ed., as amended by 58 FR 46040, August 31, 1993.
 Bold = Result exceeds ADEC Most Stringent.

ADEC Contaminated Sites Program Laboratory Data Review Checklist

Completed By:	Kari Hagen	CS Site Name:	2022 ADOT MarkAir Hangar	Lab Name:	SGS
Title:	Chemist	ADEC File No.:	100.26.043	Lab Report No.:	1225222
Consulting Firm:	Jacobs Engineering	Hazard ID No.:	24293	Lab Report Date:	9/28/2022
Note: Any N/A or I		must have an exp	planation in the con	nments box.	
app Yes	roved laboratory ⊠ No □ N/A	receive and perfo	ooratory Approval I orm all of the subm to SGS of Anchora	itted sample a	,
to a app Yes	n alternate laboi roved? □ No □ N/A	ratory, was the lab	other "network" labe poratory performing erred to another lab	the analyses	
2. Chain of C	ustody (CoC)				
rele Yes	ased/received b ⊠ No □ N/A	y)?	ned, and dated (in	cluding	
Yes Ana	⊠ No □ N/A lyses requested		SW8270SIM, SW6	020	
3. Laboratory	Sample Recei	pt Documentatio	n		
6° C Yes	c)? ⊠ No □ N/A		umented and within	n range at rece	eipt (0° to

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	CS Site Name: 2022 ADOT MarkAir Hangar Lab Report No.: 1225222			
	Sample temperature(s): Fairbanks – 4.3°C Anchorage - Cooler 1: 0.1°C; Cooler 2: 3.6°C Comments: Click or tap here to enter text.			
b.	Is the sample preservation acceptable – acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)? Yes \boxtimes No \square N/A \square Comments: Click or tap here to enter text.			
C.	Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.? Yes \boxtimes No \square N/A \square Comments: Click or tap here to enter text.			
d.	If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.? Yes \square No \square N/A \boxtimes Comments: No discrepancies were noted on the cooler receipt form.			
e.	Is the data quality or usability affected? Yes □ No □ N/A ⊠ Comments: The data quality and usability were not affected.			
4. Case	Narrative			
a.	Is the case narrative present and understandable? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.			
b.	Are there discrepancies, errors, or QC failures identified by the lab? Yes \boxtimes No \square N/A \square Comments: QC failures are discussed in the relevant sections of this checklist.			
C.	Were all the corrective actions documented? Yes □ No □ N/A ☒ Comments: Corrective actions were not necessary.			
d.	What is the effect on data quality/usability according to the case narrative? Comments: The data quality and usability were not affected.			
5. Samp	le Results			
a.	Are the correct analyses performed/reported as requested on CoC? Yes \boxtimes No \square N/A \square Comments: Click or tap here to enter text.			

	b.	Are all applicable holding times met? ∕es ⊠ No □ N/A □ Comments: Click or tap here to enter text.	
	C.	Are all soils reported on a dry weight basis? ∕es □ No □ N/A ⊠ Comments: Soil samples were not submitted with this project.	
	d.	Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or eporting limits (RL) less than the Cleanup Level or the action level for the project? Yes No N/A Comments: Click or tap here to enter text.	
	e.	s the data quality or usability affected? ∕es □ No □ N/A ⊠ Comments: The data quality and usability were not affected.	
6.	QC Sa	nples	
	a.	Method Blank	
		 i. Was one method blank reported per matrix, analysis, and 20 samples Yes ⋈ No □ N/A □ Comments: Click or tap here to enter text. 	?
		 ii. Are all method blank results less than LOQ (or RL)? Yes ⋈ No □ Comments: SW8270SIM - 1-Methylnaphthalene, 2-Methylnaphthalene Fluoranthene and Phenanthrene were detected in the MB less than th LOQ. 	
		iii. If above LoQ or RL, what samples are affected? Comments: 22MAH-TW02-GW, 22MAH-TW02-GWA, 22MAH-TW03-0 22MAH-TW04-GW, 22MAH-TW6b-GW and 22MAH-MW4-GW.	ЭW,
		 iv. Do the affected sample(s) have data flags? If so, are the data flags cledefined? Yes ⋈ No □ N/A □ Comments: Affected sample results were qualified B, high bias. 	arly
		v. Data quality or usability affected? Yes ⊠ No □ N/A □ Comments: All affected sample results were significantly less than the PSL. The data quality was minimally affected.	!

Lab Report No.: 1225222

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

	i.	Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846) Yes ⊠ No □ N/A □
		Comments: Click or tap here to enter text.
	ii.	Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	iii.	Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages) Yes No N/A Comments: Click or tap here to enter text.
	iv.	Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages) $Yes \boxtimes No \square N/A \square$ Comments: Click or tap here to enter text.
	V.	If %R or RPD is outside of acceptable limits, what samples are affected? Comments: Click or tap here to enter text.
	vi.	Do the affected sample(s) have data flags? If so, are the data flags clearly defined? Yes No N/A Comments: No samples were affected.
	vii.	Is the data quality or usability affected? Yes □ No □ N/A ⊠ Comments: Data quality or usability were not affected.
C.	Matrix	Spike/Matrix Spike Duplicate (MS/MSD)
	i.	Organics – Are one MS/MSD reported per matrix, analysis and 20 samples? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.

	ii.	Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	iii.	Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? Yes No N/A Comments: Click or tap here to enter text.
	iv.	Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate. Yes \boxtimes No \square N/A \square Comments: Click or tap here to enter text.
	V.	If %R or RPD is outside of acceptable limits, what samples are affected? Comments: No samples were affected.
	vi.	Do the affected sample(s) have data flags? If so, are the data flags clearly defined? Yes \square No \square N/A \boxtimes Comments: No samples were affected.
	vii.	Is the data quality or usability affected? Yes □ No □ N/A ☒ Comments: Data quality or usability were not affected.
d.	_	gates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution ds Only
	i.	Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples? Yes No N/A Comments: Click or tap here to enter text.
	ii.	Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages) Yes No N/A Comments: SW8270SIM – Surrogates, Fluoranthene-d10 and 2-Methylnaphthalene-d10 were recovered low in sample 22MAH-TW01-GW.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined? Yes ⊠ No □ N/A □ Comments: The affected sample result was qualified JS-, biased low. iv. Is the data quality or usability affected? Yes ⊠ No □ N/A □ Comments: SW8270SIM – All affected sample results were non-detect with LODs significantly less than the PSL. Data quality was minimally affected. e. Trip Blanks i. Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes \square No \square N/A \boxtimes Comments: Volatiles were not submitted with this SDG. ii. Are all results less than LoQ or RL? Yes □ No □ N/A ⊠ Comments: A trip blank was not submitted with this SDG. iii. If above LoQ or RL, what samples are affected? Comments: Click or tap here to enter text. iv. Is the data quality or usability affected? Yes □ No □ N/A ⊠ Comments: Data quality or usability were not affected. f. Field Duplicate i. Are one field duplicate submitted per matrix, analysis, and 10 project samples? Yes ⊠ No □ N/A □ Comments: One field duplicate was submitted with six primary samples. Primary/Field Duplicate: 22MAH-TW02-GW/22MAH-TW02-GWA. ii. Was the duplicate submitted blind to lab? Yes ⊠ No □ N/A □

CS Site Name: 2022 ADOT MarkAir Hangar

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Comments: Click or tap here to enter text.

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iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water or air, 50% soil)

$$RPD \ (\%) = \left| \frac{R_1 - R_2}{\left(\frac{R_1 + R_2}{2}\right)} \right| X \ 100$$

Where R_1 = Sample Concentration

R₂ = Field Duplicate Concentration

the

		N ₂ = 1 leid Bupilodic Golidentiation
		Is the data quality or usability affected? (Explain)
		Yes \boxtimes No \square N/A \square Comments: RPDs were only evaluated if at least one result in the duplicate pair was greater than the LOD. If one result was non-detect LOD value was used to calculate the RPD.
		All primary/field duplicate RPDs were in control.
	iv.	Is the data quality or usability affected? (Explain) Yes □ No □ N/A ☒ Comments: Data quality or usability were not affected.
g.	Decon	tamination or Equipment Blanks
	i.	Were decontamination or equipment blanks collected? Yes □ No ☒ N/A □ Comments: An equipment blank was not required for this project.
		Are all results less than LoQ or RL? Yes □ No □ N/A ☒ Comments: Equipment blanks were not submitted with this project.
	ii.	If above LoQ or RL, specify what samples are affected. Comments: Click or tap here to enter text.
	iii.	Are data quality or usability affected? Yes □ No □ N/A ⊠ Comments: Equipment blanks were not submitted with this project.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Are they defined and appropriate?

Yes ⊠ No □ N/A □

Comments: Click or tap here to enter text.

ADEC Contaminated Sites Program Laboratory Data Review Checklist

Completed By:	Kari Hagen	CS Site Name:	2022 ADOT MarkAir Hangar	Lab Name:	SGS
Title:	Chemist	ADEC File No.:	100.26.043	Lab Report No.:	1225223
Consulting Firm:	Jacobs Engineering	Hazard ID No.:	24293	Lab Report Date:	9/29/2022
Note: Any N/A or N		must have an exμ	planation in the con	nments box.	
app Yes	roved laboratory ⊠ No □ N/A	receive and perfo	boratory Approval Form all of the submeto to SGS of Anchora	itted sample a	,
to a app Yes	n alternate labor roved? □ No □ N/A	ratory, was the lab	other "network" labe coratory performing erred to another lab	the analyses	
2. Chain of C	ustody (CoC)				
rele Yes	ased/received b ⊠ No □ N/A	y)?	ned, and dated (in	cluding	
Yes Ana	⊠ No □ N/A lyses requested	alyses requested □ : AK101, SW8260 tap here to enter), SW8260SIM		
3. Laboratory	Sample Recei	pt Documentatio	n		
6° C Yes	c)? ⊠ No □ N/A		umented and within	n range at rece	eipt (0° to

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CS Site Na Lab Report		2022 ADOT MarkAir Hangar .: 1225223
		Sample temperature(s): Fairbanks – 4.3°C Anchorage - Cooler 1: 0.1°C; Cooler 2: 3.6°C Comments: Click or tap here to enter text.
	b.	Is the sample preservation acceptable – acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)? Yes \boxtimes No \square N/A \square Comments: Click or tap here to enter text.
	C.	Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.? Yes \boxtimes No \square N/A \square Comments: Click or tap here to enter text.
	d.	If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.? Yes \square No \square N/A \boxtimes Comments: No discrepancies were noted on the cooler receipt form.
	e.	Is the data quality or usability affected? Yes □ No □ N/A ⊠ Comments: The data quality and usability were not affected.
4. Ca	se I	Narrative
	a.	Is the case narrative present and understandable? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	b.	Are there discrepancies, errors, or QC failures identified by the lab? Yes \boxtimes No \square N/A \square Comments: QC failures are discussed in the relevant sections of this checklist.
	C.	Were all the corrective actions documented? Yes □ No □ N/A ☒ Comments: Corrective actions were not necessary.
	d.	What is the effect on data quality/usability according to the case narrative? Comments: The data quality and usability were not affected.
5. Saı	mpl	e Results
	a.	Are the correct analyses performed/reported as requested on CoC? Yes ☑ No ☐ N/A ☐ Comments: Click or tap here to enter text.

	b.	Are all applicable holding times met? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	C.	Are all soils reported on a dry weight basis? Yes □ No □ N/A ☒ Comments: Soil samples were not submitted with this project.
	d.	Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or reporting limits (RL) less than the Cleanup Level or the action level for the project? Yes □ No ☒ N/A □ Comments: SW8260 – The LOD was greater than the project screening level for 1,2,3-TCP in samples 22MAH-TB01W, 22MAH-MW4-GW, 22MAH-TW04-GW, 22MAH-TW03-GW, 22MAH-TW02-GWA, 22MAH-TW01-GWA, 22MAH-TW05-GWA, 22MAH-TW05
	e.	Is the data quality or usability affected? Yes \boxtimes No \square N/A \square Comments: Data quality was affected in that results exceeding the PSL may be reported as non-detect (ND) due to laboratory method limitations. 1,2,3-TCP was not a contaminant of concern at this site. ND results with LODs greater than the PSL are qualified E.
6.	QC Sa	amples
	a.	Method Blank
		 i. Was one method blank reported per matrix, analysis, and 20 samples? Yes ⋈ No □ N/A □ Comments: Click or tap here to enter text.
		ii. Are all method blank results less than LOQ (or RL)?Yes ⋈ No □Comments: Click or tap here to enter text.
		iii. If above LoQ or RL, what samples are affected? Comments: No samples were affected.
		 iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined? Yes □ No □ N/A ☒ Comments: No samples were affected.
		v. Data quality or usability affected? Yes □ No □ N/A ⊠

CS Site Name: 2022 ADOT MarkAir Hangar Lab Report No.: 1225223

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Comments: Data quality or usability were not affected.

b.	Labora	atory Control Sample/Duplicate (LCS/LCSD)
	i.	Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846) Yes No NA Comments: Click or tap here to enter text
		Comments: Click or tap here to enter text.
	ii.	Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples? Yes \boxtimes No \square N/A \square
		Comments: Click or tap here to enter text.
	iii.	Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages) Yes \boxtimes No \square N/A \square
		Comments: Click or tap here to enter text.
	iv.	Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages) Yes \boxtimes No \square N/A \square
		Comments: Click or tap here to enter text.
	٧.	If %R or RPD is outside of acceptable limits, what samples are affected? Comments: Click or tap here to enter text.
	vi.	Do the affected sample(s) have data flags? If so, are the data flags clearly defined? Yes \square No \square N/A \boxtimes Comments: No samples were affected.
	vii.	Is the data quality or usability affected? Yes □ No □ N/A ☒ Comments: Data quality or usability were not affected.
C.	Matrix	Spike/Matrix Spike Duplicate (MS/MSD)
	I.	Organics – Are one MS/MSD reported per matrix, analysis and 20

samples?

CS Site Name: 2022 ADOT MarkAir Hangar **Lab Report No.:** 1225223 Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. ii. Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate. Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. v. If %R or RPD is outside of acceptable limits, what samples are affected? Comments: No samples were affected. vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined? Yes □ No □ N/A ⋈ Comments: No samples were affected. vii. Is the data quality or usability affected? Yes □ No □ N/A ⊠ Comments: Data quality or usability were not affected. d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only i. Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. ii. Accuracy – Are all percent recoveries (%R) reported and within method or

laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC

samples; all other analyses see the laboratory report pages)

Yes □ No ⊠ N/A □

CS Site Name: 2022 ADOT MarkAir Hangar **Lab Report No.:** 1225223 Comments: AK101 – Surrogate, 4-Bromofluorobenzene was recovered high in sample 22MAH-TW01-GW. SW8260 - Surrogate, 4-Bromofluorobenzene was recovered high in sample 22MAH-TW01-GW. iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined? Yes ⊠ No □ N/A □ Comments: Detected sample results were qualified JS+, biased high. iv. Is the data quality or usability affected? Yes ⊠ No □ N/A □ Comments: All affected results were either significantly less than the PSL or exceeded the PSL by a factor of two or more. Data quality or usability were minimally affected. e. Trip Blanks i. Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes \boxtimes No \square N/A \square Comments: Click or tap here to enter text. ii. Are all results less than LoQ or RL? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. iii. If above LoQ or RL, what samples are affected? Comments: Click or tap here to enter text. iv. Is the data quality or usability affected? Yes □ No □ N/A ⊠ Comments: Data quality or usability were not affected. f. Field Duplicate i.

i.	Are one field duplicate submitted per matrix, analysis, and 10 project samples?
	Yes \boxtimes No \square N/A \square Comments: One field duplicate was submitted with six primary samples Primary/Field Duplicate: 22MAH-TW02-GW/22MAH-TW02-GWA.
ii.	Was the duplicate submitted blind to lab?

Yes \boxtimes No \square N/A \square Comments: Click or tap here to enter text.

Lab Report No.: 1225223

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water or air, 50% soil)

$$RPD \ (\%) = \left| \frac{R_1 - R_2}{\left(\frac{R_1 + R_2}{2}\right)} \right| X \ 100$$

Where R_1 = Sample Concentration

R₂ = Field Duplicate Concentration

the

		R_2 = Field Duplicate Concentration
		Is the data quality or usability affected? (Explain)
		Yes \boxtimes No \square N/A \square Comments: RPDs were only evaluated if at least one result in the duplicate pair was greater than the LOD. If one result was non-detect LOD value was used to calculate the RPD.
		All primary/field duplicate RPDs were in control.
	iv.	Is the data quality or usability affected? (Explain) Yes □ No □ N/A ☒ Comments: Data quality or usability were not affected.
g.	Decon	tamination or Equipment Blanks
	i.	Were decontamination or equipment blanks collected? Yes □ No ☒ N/A □ Comments: An equipment blank was not required for this project.
		Are all results less than LoQ or RL? Yes □ No □ N/A ☒ Comments: Equipment blanks were not submitted with this project.
	ii.	If above LoQ or RL, specify what samples are affected. Comments: Click or tap here to enter text.
	iii.	Are data quality or usability affected? Yes □ No □ N/A ⊠ Comments: Equipment blanks were not submitted with this project.

- 7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
 - a. Are they defined and appropriate?

Yes \boxtimes No \square N/A \square

Comments: Click or tap here to enter text.

ADEC Contaminated Sites Program Laboratory Data Review Checklist

Completed By:	Kari Hagen	CS Site Name:	2022 ADOT MarkAir Hangar	Lab Name:	SGS
Title:	Chemist	ADEC File No.:	100.26.043	Lab Report No.:	1225240
Consulting Firm	Jacobs Engineering	Hazard ID No.:	24293	Lab Report Date:	9/26/2022
Note: Any N/A or 1. Laborator		must have an ex	planation in the con	nments box.	
a. Dic ap _l Ye	I an ADEC Conta proved laboratory s ⊠ No □ N/A	\prime receive and perf	boratory Approval Form all of the subm	itted sample a	,
 b. If the samples were transferred to another "network" laboratory or sub-contract to an alternate laboratory, was the laboratory performing the analyses CS-LAF approved? Yes □ No □ N/A ⊠ Comments: Samples were not transferred to another laboratory. 					
	Custody (CoC)			·	
 a. Is the CoC information completed, signed, and dated (including released/received by)? Yes ⋈ No □ N/A □ Comments: Click or tap here to enter text. 					
Ye An SW	s ⊠ No □ N/A alyses requested /6020.		0, SW8260SIM, AK	102/103, SW8	3270SIM,
3. Laborator	y Sample Recei	pt Documentation	on		
6°	C)?	·	cumented and within	n range at rece	eipt (0° to
	s ⊠ No □ N/A oler temperature	. □ (s): Click or tap he	ere to enter text.		Dovision

CS Site Nar Lab Report		2022 ADOT MarkAir Hangar :: 1225240
		Sample temperature(s): Fairbanks – 3.0°C Anchorage – 5.0°C Comments: Click or tap here to enter text.
	b.	Is the sample preservation acceptable – acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)? Yes \boxtimes No \square N/A \square Comments: Click or tap here to enter text.
	C.	Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.? Yes \boxtimes No \square N/A \square Comments: Click or tap here to enter text.
	d.	If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.? Yes \square No \square N/A \boxtimes Comments: No discrepancies were noted on the cooler receipt form.
	e.	Is the data quality or usability affected? Yes □ No □ N/A ⊠ Comments: The data quality and usability were not affected.
4. Cas	se N	Narrative
	a.	Is the case narrative present and understandable? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	b.	Are there discrepancies, errors, or QC failures identified by the lab? Yes \boxtimes No \square N/A \square Comments: QC failures are discussed in the relevant sections of this checklist.
	C.	Were all the corrective actions documented? Yes □ No □ N/A ☒ Comments: Corrective actions were not necessary.
	d.	What is the effect on data quality/usability according to the case narrative? Comments: The data quality and usability were not affected.
5. Sar	npl	e Results
	a.	Are the correct analyses performed/reported as requested on CoC? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.

b. Are all applicable holding times met? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. c. Are all soils reported on a dry weight basis? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. d. Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or reporting limits (RL) less than the Cleanup Level or the action level for the project? Yes □ No ⋈ N/A □ Comments: The following analytes had LODs greater than the project screening level (PSL): SW8260 - 1,1,1,2-Tetrachloroethane, 1,2,3-TCP, 1,2-Dibromo-3-chloropropane, EDB, 2-Hexanone, Bromomethane, Chloroform, Dibromochloromethane, Dibromomethane, Hexachlorobutadiene, TCE, VC, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,2,3-Trichlorobenzene, 1,4-Dichlorobenzene, Naphthalene and trans-1,3-Dichloropropene. e. Is the data quality or usability affected? Yes ⊠ No □ N/A □ Comments: Data quality was affected in that results exceeding the PSL may be reported as non-detect (ND) due to laboratory method limitations. ND results with LODs greater than the PSL are qualified E. 6. QC Samples a. Method Blank i. Was one method blank reported per matrix, analysis, and 20 samples? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. ii. Are all method blank results less than LOQ (or RL)? Yes ⊠ No □ Comments: All detected MB results were less than the LOQ. iii. If above LoQ or RL, what samples are affected? Comments: AK101 – GRO was detected in several method blanks affecting samples 22MAH-SB8b-SO6-8, 22MAH-SB8b-SO10-10.5, 22MAH-SB8b-SO10-10.5A, 22MAH-TB01S, 22MAH-SB12-SO10.5.11, 22MAH-SB12-SO2-4, 22MAH-SB13-SO10-10.5, 22MAH-SB13-SO8-10, 22MAH-SB6b-SO9.5-10, 22MAH-SB6b-SO2-4, 22MAH-SB7b-SO10-10.5, 22MAH-SB7b-SO10-10.5A, 22MAH-SB7b-SO6-8, 22MAH-SB3b-

CS Site Name: 2022 ADOT MarkAir Hangar

Lab Report No.: 1225240

SO9.5.10 and 22MAH-SB3b-SO2-4. AK102 - DRO was detected in the method blank affecting samples 22MAH-SB12-SO2-4, 22MAH-SB13-SO10-10.5, 22MAH-SB13-SO8-10, 22MAH-SB6b-SO9.5-10, 22MAH-SB6b-SO2-4, 22MAH-SB7b-SO10-10.5. 22MAH-SB7b-SO10-10.5A and 22MAH-SB7b-SO6-8. iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined? Yes ⊠ No □ N/A □ Comments: All affected samples were qualified B, biased high. v. Data quality or usability affected? Yes ⊠ No □ N/A □ Comments: All affected results were significantly less than the PSL. Data quality or usability were minimally affected. b. Laboratory Control Sample/Duplicate (LCS/LCSD) i. Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846) Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. ii. Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages) Yes □ No ⋈ N/A □ Comments: SW8260 - Freon-11, 1,1-Dichloropropene, Chloroform and Benzene were recovered high in the LCS. iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages) Yes ⊠ No □ N/A □

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments: Click or tap here to enter text.

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Comments: All associated results were ND except Freon-11. Freon-11 was detected in sample 22MAH-SB8b-SO10-10.5.

	vi.	Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
		Yes ⊠ No □ N/A □
		Comments: The affected result was qualified JS+, biased high.
	vii.	Is the data quality or usability affected? Yes \boxtimes No \square N/A \square
		Comments: The affected sample result was significantly less than the PSL. Data quality or usability were minimally affected.
C.	Matrix	Spike/Matrix Spike Duplicate (MS/MSD)
	i.	Organics – Are one MS/MSD reported per matrix, analysis and 20 samples?
		Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	ii.	Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples?
		Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	iii.	Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? Yes No N/A Comments: Click or tap here to enter text.
	iv.	Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate. Yes No N/A
		Comments: Click or tap here to enter text.
	٧.	If %R or RPD is outside of acceptable limits, what samples are affected? Comments: No samples were affected.
	vi.	Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
		Yes □ No □ N/A ⊠
		Comments: No samples were affected.
	vii.	Is the data quality or usability affected?

Yes □ No □ N/A ⊠ Comments: Data quality or usability were not affected. d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only i. Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. ii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages) Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined? Yes □ No □ N/A ⊠ Comments: All surrogates were in control. iv. Is the data quality or usability affected? Yes □ No □ N/A ⊠ Comments: Data quality or usability were not affected. e. Trip Blanks i. Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. ii. Are all results less than LoQ or RL? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. iii. If above LoQ or RL, what samples are affected? Comments: AK101- GRO was detected in the trip blank affecting samples 22MAH-SB6b-SO9.5-10, 22MAH-SB6b-SO2-4, 22MAH-SB13-SO10-10.5, 22MAH-SB13-SO8-10, 22MAH-SB7b-SO10-10.5, 22MAH-SB7b-SO10-10.5A, 22MAH-SB7b-SO6-8, 22MAH-SB12-SO10.5-11, 22MAH-SB12-SO2-4, 22MAH-SB3b-SO9.5-10, 22MAH-SB3b-SO2-4, 22MAH-SB8b-SO6-8, 22MAH-SB8b-SO10-10.5 and 22MAH-SB8b-SO10-10.5A. All affected results were qualified B, biased high.

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Lab Report No.: 1225240 iv. Is the data quality or usability affected? Yes ⊠ No □ N/A □ Comments: All affected results were significantly less than the PSL. Data quality or usability were minimally affected. f. Field Duplicate i. Are one field duplicate submitted per matrix, analysis, and 10 project Yes ⊠ No □ N/A □ Comments: Two field duplicate pairs were submitted with twelve primary samples. Primary/Field Duplicate: 22MAH-SB7b-SO10-10.5/22MAH-SB7b-SO10-10.5A and 22MAH-SB8b-SO10-10.5/22MAH-SB8b-SO10-10.5A ii. Was the duplicate submitted blind to lab? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water or air, 50% soil) $RPD \ (\%) = \left| \frac{R_1 - R_2}{\left(\frac{R_1 + R_2}{2}\right)} \right| X \ 100$ Where R_1 = Sample Concentration R₂ = Field Duplicate Concentration Is the data quality or usability affected? (Explain) Yes ⊠ No □ N/A □ Comments: RPDs were only evaluated if at least one result in the duplicate pair was greater than the LOD. If one result was non-detect, the LOD value was used to calculate the RPD. All primary/field duplicate RPDs were in control. iv. Is the data quality or usability affected? (Explain) Yes □ No □ N/A ⊠ Comments: Data quality or usability were not affected. g. Decontamination or Equipment Blanks i. Were decontamination or equipment blanks collected? Yes □ No ⋈ N/A □ Comments: An equipment blank was not required for this project.

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	Are all results less than LoQ or RL? Yes \square No \square N/A \boxtimes Comments: Equipment blanks were not submitted with this project.
ii.	If above LoQ or RL, specify what samples are affected. Comments: Click or tap here to enter text.
iii.	Are data quality or usability affected? Yes \square No \square N/A \boxtimes Comments: Equipment blanks were not submitted with this project.
7. Other Data F	lags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
a. Are th	ey defined and appropriate?
	Yes ⊠ No □ N/A □
	Comments: Click or tap here to enter text.

CS Site Name: 2022 ADOT MarkAir Hangar Lab Report No.: 1225240

ADEC Contaminated Sites Program Laboratory Data Review Checklist

Completed By:	Kari Hagen	CS Site Name:	2022 ADOT MarkAir Hangar	Lab Name:	SGS
Title:	Chemist	ADEC File No.:	100.26.043	Lab Report No.:	1225314
Consulting Firm:	Jacobs Engineering	Hazard ID No.:	24293	Lab Report Date:	9/28/2022
Note: Any N/A or N		must have an exμ	planation in the con	nments box.	
 a. Did an ADEC Contaminated Sites Laboratory Approval Program (CS-LAP) approved laboratory receive and perform all of the submitted sample analyses? Yes ⋈ No □ N/A □ Comments: Samples were submitted to SGS of Anchorage, AK. 				,	
 b. If the samples were transferred to another "network" late to an alternate laboratory, was the laboratory performing approved? Yes □ No □ N/A ☒ Comments: Samples were not transferred to another later late		ooratory performing	the analyses		
2. Chain of C	ustody (CoC)				
 a. Is the CoC information completed, signed, and dated (including released/received by)? Yes No N/A Comments: Click or tap here to enter text. 					
Yes Ana	⊠ No □ N/A lyses requested	alyses requested □ : AK101, SW8260 tap here to enter), SW8260SIM		
3. Laboratory	Sample Recei	pt Documentatio	n		
6° C Yes	c)? ⊠ No □ N/A		umented and within	n range at rece	eipt (0° to

Revision 9/2022

	Sample temperature(s): Fairbanks – 5.6°C Anchorage – A temperature was not noted in the sample receipt form. Comments: Click or tap here to enter text.
k	o. Is the sample preservation acceptable – acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
(c. Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
C	If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.? Yes No N/A Comments: Only 3 trip blank vials were received. The CoC stated there were 9 vials.
€	e. Is the data quality or usability affected? Yes □ No ☒ N/A □ Comments: No containers were noted as received at non-compliant temperature. The data quality and usability were not affected.
4. Cas	e Narrative
ć	a. Is the case narrative present and understandable? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
t	o. Are there discrepancies, errors, or QC failures identified by the lab? Yes ⊠ No □ N/A □ Comments: QC failures are discussed in the relevant sections of this checklist.
C	 Were all the corrective actions documented? Yes □ No □ N/A ☒ Comments: Corrective actions were not necessary.
C	I. What is the effect on data quality/usability according to the case narrative? Comments: The data quality and usability were not affected.

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5. Sample Results

	a.	Are the correct analyses performed/reported as requested on CoC? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	b.	Are all applicable holding times met? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	C.	Are all soils reported on a dry weight basis? Yes \square No \square N/A \boxtimes Comments: Soil samples were not submitted with this SDG.
	d.	Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or reporting limits (RL) less than the Cleanup Level or the action level for the project? Yes \square No \boxtimes N/A \square Comments: SW8260 – The LOD was greater than the project screening level for 1,2,3-TCP in samples 22MAH-MW12-GW, 22MAH-MW13-GW, 22MAH-MW3b-GW, 22MAH-MW7b-GW, 22MAH-MW8b-GW, 22MAH-MW8b-GWA and 22MAH-TB02W.
	e.	Is the data quality or usability affected? Yes \boxtimes No \square N/A \square Comments: Data quality was affected in that results exceeding the PSL may be reported as non-detect (ND) due to laboratory method limitations. 1,2,3-TCP was not a contaminant of concern at this site. ND results with LODs greater than the PSL are qualified E.
6.	QC Sa	mples
	a.	Method Blank
		 i. Was one method blank reported per matrix, analysis, and 20 samples? Yes ⋈ No □ N/A □ Comments: Click or tap here to enter text.
		 ii. Are all method blank results less than LOQ (or RL)? Yes ⋈ No □ Comments: SW8270SIM - 1-Methylnaphthalene and 2-Methylnaphthalene were detected in the MB less than the LOQ. AK103 – RRO was detected in the MB less than the LOQ.

iii. If above LoQ or RL, what samples are affected?

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Comments: SW8270SIM - 22MAH-MW12-GW, 22MAH-MW13-GW, 22MAH-MW3b-GW, 22MAH-MW7b-GW, 22MAH-MW8b-GW and 22MAH-MW8b-GWA.

AK101 - 22MAH-MW8h-GWA 22MAH-MW8h-GW 22MAH-MW3h-GW

	and 22MAH-MW12-GW.
iv.	Do the affected sample(s) have data flags? If so, are the data flags clearly defined? Yes No N/A Comments: All affected samples were qualified B, biased high.
V.	Data quality or usability affected? Yes ☑ No ☐ N/A ☐ Comments: SW8270SIM – All affected results were significantly less than the PSL. Data quality or usability were minimally affected. AK103 – All affected RRO results were slightly less than the PSL. Data quality or usability were minimally affected.
b. Labora	atory Control Sample/Duplicate (LCS/LCSD)
i.	Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846) Yes No NA Comments: Click or tap here to enter text.
ii.	Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
iii.	Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages) Yes No N/A Comments: Click or tap here to enter text.
iv.	Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages) Yes \boxtimes No \square N/A \square Comments: Click or tap here to enter text.

CS Site Name: 2022 ADOT MarkAir Hangar Lab Report No.: 1225314

	V.	If %R or RPD is outside of acceptable limits, what samples are affected? Comments: Click or tap here to enter text.
	vi.	Do the affected sample(s) have data flags? If so, are the data flags clearly defined? Yes No N/A Comments: No samples were affected.
	vii.	Is the data quality or usability affected? Yes □ No □ N/A ☒ Comments: Data quality or usability were not affected.
C.	Matrix	Spike/Matrix Spike Duplicate (MS/MSD)
	i.	Organics – Are one MS/MSD reported per matrix, analysis and 20 samples? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	ii.	Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	iii.	Accuracy – Are all percent recoveries (%R) reported and within method o laboratory limits and project specified objectives, if applicable? Yes No N/A Comments: Click or tap here to enter text.
	iv.	Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate. Yes No N/A Comments: Click or tap here to enter text.
	٧.	If %R or RPD is outside of acceptable limits, what samples are affected? Comments: No samples were affected.
	vi.	Do the affected sample(s) have data flags? If so, are the data flags clearly defined? Yes □ No □ N/A ☒ Comments: No samples were affected.
	vii.	Is the data quality or usability affected? Yes □ No □ N/A ⊠

Lab Report No.: 1225314

Comments: Data quality or usability were not affected.

d.	 Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only 		
	i.	Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples? Yes No N/A Comments: Click or tap here to enter text.	
	ii.	Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages) Yes \boxtimes No \square N/A \square Comments: Click or tap here to enter text.	
	iii.	Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined? Yes No N/A Comments: All surrogates were in control.	
	iv.	Is the data quality or usability affected? Yes □ No □ N/A ☒ Comments: Data quality or usability were not affected.	
e.	Trip BI	anks	
	i.	Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes \boxtimes No \square N/A \square Comments: Click or tap here to enter text.	
	ii.	Are all results less than LoQ or RL? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.	
	iii.	If above LoQ or RL, what samples are affected? Comments: Click or tap here to enter text.	
	iv.	Is the data quality or usability affected? Yes □ No □ N/A ⊠ Comments: Data quality or usability were not affected.	

CS Site Name: 2022 ADOT MarkAir Hangar Lab Report No.: 1225314

f. Field Duplicate

		·
	i.	Are one field duplicate submitted per matrix, analysis, and 10 project samples? Yes No N/A Comments: One field duplicate was submitted with five primary samples. Primary/Field Duplicate: 22MAH-MW8b-GW/22MAH-MW8b-GWA.
	ii.	Was the duplicate submitted blind to lab? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	iii.	Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water or air, 50% soil)
		$RPD \ (\%) = \left \frac{R_1 - R_2}{\left(\frac{R_1 + R_2}{2}\right)} \right X \ 100$
		Where R ₁ = Sample Concentration
		R ₂ = Field Duplicate Concentration
		Is the data quality or usability affected? (Explain)
		Yes \square No \boxtimes N/A \square Comments: RPDs were only evaluated if at least one result in the duplicate pair was greater than the LOD. If one result was non-detect, the LOD value was used to calculate the RPD.
		The following primary/field duplicate (22MAH-MW8b-GW/22MAH-MW8b-GWA) had RPDs greater than 30%: SW8270SIM -1-Methylnaphthalene (31%) and 2-Methylnaphthalene (42%). AK102 - DRO (38%). SW6020 - Lead (34%).
		All affected samples were qualified JD, unknown bias.
	iv.	Is the data quality or usability affected? (Explain) Yes ⊠ No □ N/A □ Comments: All affected results were less than the PSL. Data quality or usability were minimally affected.
g.	Decon	tamination or Equipment Blanks
	i.	Were decontamination or equipment blanks collected?

Yes □ No ⊠ N/A □

Lab Report No.: 12253	314
	Comments: An equipment blank was not required for this project.
	Are all results less than LoQ or RL? Yes □ No □ N/A ☒ Comments: Equipment blanks were not submitted with this project.
ii.	If above LoQ or RL, specify what samples are affected. Comments: Click or tap here to enter text.
iii.	Are data quality or usability affected? Yes □ No □ N/A ☒ Comments: Equipment blanks were not submitted with this project.
7. Other Data Fl	ags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
a. Are the	ey defined and appropriate? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.

ADEC Contaminated Sites Program Laboratory Data Review Checklist

Completed By:	Kari Hagen	CS Site Name:	2022 ADOT MarkAir Hangar	Lab Name:	SGS
Title:	Chemist	ADEC File No.:	100.26.043	Lab Report No.:	1226337
Consulting Firm:	Jacobs Engineering	Hazard ID No.:	24293	Lab Report Date:	11/28/2022
Note: Any N/A or No box checked must have an explanation in the comments box. 1. Laboratory					
app Yes	roved laboratory □ No □ N/A	receive and perform	boratory Approval Form all of the submeto to SGS of Anchora	itted sample a	,
to a app Yes	n alternate laboi roved? s ⊠ No □ N/A	ratory, was the lab	other "network" labo poratory performing sferred to SGS of 0	the analyses	
2. Chain of C		·			
rele Yes	ased/received b S ⊠ No □ N/A	y)?	gned, and dated (indext)	cluding	
Yes Ana SW	s ⊠ No □ N/A alyses requested 6020 and EPA 5	: AK101, SW8260), SW8260SIM, AK	102/103, SW8	270SIM,
3. Laboratory	y Sample Recei	pt Documentatio	on		
6° (Yes	C)? □ No ⊠ N/A		eumented and withing	n range at rece	eipt (0° to

		Sample temperature(s): Fairbanks – 1.7°C Anchorage – Temperature was not recorded on the sample receipt form.; Orlando – 4.8°C Comments: Click or tap here to enter text.
	b.	Is the sample preservation acceptable – acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)? Yes \boxtimes No \square N/A \square Comments: Click or tap here to enter text.
	C.	Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.? Yes \boxtimes No \square N/A \square Comments: Click or tap here to enter text.
	d.	If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.? Yes \square No \square N/A \boxtimes Comments: No discrepancies were documented.
	e.	Is the data quality or usability affected? Yes □ No ☒ N/A □ Comments: The Anchorage sample receipt form did not identify any containers out of temperature. The data quality and usability were not affected.
4.	Case I	Narrative
	a.	Is the case narrative present and understandable? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	b.	Are there discrepancies, errors, or QC failures identified by the lab? Yes \boxtimes No \square N/A \square Comments: QC failures are discussed in the relevant sections of this checklist.
	C.	Were all the corrective actions documented? Yes \square No \square N/A \boxtimes Comments: Corrective actions were not necessary.
	d.	What is the effect on data quality/usability according to the case narrative? Comments: The data quality and usability were not affected.

Lab Report No.: 1226337

5. Sample Results

	a.	Are the correct analyses performed/reported as requested on CoC? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	b.	Are all applicable holding times met? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	C.	Are all soils reported on a dry weight basis? Yes □ No □ N/A ☒ Comments: Soil samples were not submitted with this SDG.
	d.	Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or reporting limits (RL) less than the Cleanup Level or the action level for the project? Yes No N/A Comments: SW8260 – The LOD was greater than the project screening level for 1,2,3-TCP in samples 22MAH-TB03W, 22MAH-DR01-WW, 22MAH-DR02-WW, 22MAH-DR03-WW and 22MAH-DR04-WW.
	e.	Is the data quality or usability affected? Yes \boxtimes No \square N/A \square Comments: Data quality was affected in that results exceeding the PSL may be reported as non-detect (ND) due to laboratory method limitations. 1,2,3-TCP was not a contaminant of concern at this site. ND results with LODs greater than the PSL are qualified E.
6.	QC Sa	mples
	a.	Method Blank
		 i. Was one method blank reported per matrix, analysis, and 20 samples? Yes ⋈ No □ N/A □ Comments: Click or tap here to enter text.
		 ii. Are all method blank results less than LOQ (or RL)? Yes □ No ⋈ Comments: SW6020 - Lead was detected in the MB greater than the LOQ.
		iii. If above LoQ or RL, what samples are affected? Comments: SW6020 - 22MAH-DR01-WW, 22MAH-DR02-WW, 22MAH-DR03-WW and 22MAH-DR04-WW.

	iv.	Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
		Yes ⊠ No □ N/A □
		Comments: All affected samples were qualified B, biased high.
	٧.	Data quality or usability affected? Yes ⊠ No □ N/A □
		Comments: SW6020 – All affected results were significantly less than the PSL. Data quality or usability were minimally affected.
b.	Labora	atory Control Sample/Duplicate (LCS/LCSD)
	i.	Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846) Yes ⊠ No □ N/A □
		Comments: Click or tap here to enter text.
	ii.	Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
		Comments. Office of tap here to effici text.
	iii.	Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages) Yes No N/A Comments: Click or tap here to enter text.
		•
	IV.	Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages) Yes No N/A
		Comments: Click or tap here to enter text.
	٧.	If %R or RPD is outside of acceptable limits, what samples are affected? Comments: Click or tap here to enter text.
	vi.	Do the affected sample(s) have data flags? If so, are the data flags clearly defined? Yes \square No \square N/A \boxtimes Comments: No samples were affected.

CS Site Name: 2022 ADOT MarkAir Hangar **Lab Report No.:** 1226337 vii. Is the data quality or usability affected? Yes □ No □ N/A ⊠ Comments: Data quality or usability were not affected. c. Matrix Spike/Matrix Spike Duplicate (MS/MSD) i. Organics – Are one MS/MSD reported per matrix, analysis and 20 samples? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. ii. Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate. Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. v. If %R or RPD is outside of acceptable limits, what samples are affected? Comments: No samples were affected. vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined? Yes □ No □ N/A ⊠ Comments: No samples were affected. vii. Is the data quality or usability affected? Yes □ No □ N/A ⊠ Comments: Data quality or usability were not affected. d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only i. Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples?

Yes ⊠ No □ N/A □

Lab Report No.: 1226337

Comments: Click or tap here to enter text.

	ii.	Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages) Yes \boxtimes No \square N/A \square Comments: Surrogate and IDA recoveries were only evaluated if the dilution factor (DF) was less than 5.
	iii.	Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined? Yes No N/A Comments: All surrogates and IDAs with DF less than 5 were in control.
	iv.	Is the data quality or usability affected? Yes □ No □ N/A ⊠ Comments: Data quality or usability were not affected.
e.	Trip Bl	anks
	i.	Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	ii.	Are all results less than LoQ or RL? Yes □ No ⋈ N/A □ Comments: SW8260 – Methylene chloride was detected greater than the LOQ in trip blank 22MAH-TB03W.
	iii.	If above LoQ or RL, what samples are affected? Comments: All associated sample results were ND.
	iv.	Is the data quality or usability affected? Yes □ No ☒ N/A □ Comments: Data quality or usability were not affected.
f.	Field [Duplicate
	i.	Are one field duplicate submitted per matrix, analysis, and 10 project samples? Yes □ No □ N/A ☒ Comments: Samples were collected for waste characterization. A field duplicate was not collected.
	ii.	Was the duplicate submitted blind to lab?

CS Site Name: 2022 ADOT MarkAir Hangar **Lab Report No.:** 1226337 Yes □ No □ N/A ⊠ Comments: A field duplicate was not collected. iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water or air, 50% soil) $RPD \ (\%) = \left| \frac{R_1 - R_2}{\left(\frac{R_1 + R_2}{2}\right)} \right| \ X \ 100$ Where R_1 = Sample Concentration R₂ = Field Duplicate Concentration Is the data quality or usability affected? (Explain) Yes □ No □ N/A ⊠ Comments: A field duplicate was not collected iv. Is the data quality or usability affected? (Explain) Yes □ No □ N/A ⊠ Comments: A field duplicate was not collected. g. Decontamination or Equipment Blanks i. Were decontamination or equipment blanks collected? Yes □ No ⊠ N/A □ Comments: An equipment blank was not required for this project. Are all results less than LoQ or RL? Yes □ No □ N/A ⊠ Comments: Equipment blanks were not submitted with this project. ii. If above LoQ or RL, specify what samples are affected. Comments: Click or tap here to enter text. iii. Are data quality or usability affected? Yes □ No □ N/A ⊠ Comments: Equipment blanks were not submitted with this project. 7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Are they defined and appropriate?
 Yes ⋈ No □ N/A □
 Comments: Click or tap here to enter text.

ADEC Contaminated Sites Program Laboratory Data Review Checklist

Completed By:	Kari Hagen	CS Site Name:	2022 ADOT MarkAir Hangar	Lab Name:	SGS	
Title:	Chemist	ADEC File No.:	100.26.043	Lab Report No.:	1226513	
Consulting Firm:	Jacobs Engineering	Hazard ID No.:	24293	Lab Report Date:	11/28/2022	
Note: Any N/A or I		must have an exμ	olanation in the con	nments box.		
app Yes	roved laboratory ⊠ No □ N/A	receive and perform	boratory Approval Form all of the submeto to SGS of Anchora	itted sample a	,	
 b. If the samples were transferred to another "network" laboratory or sub-contra to an alternate laboratory, was the laboratory performing the analyses CS-LA approved? Yes ⋈ No □ N/A □ Comments: PFAS samples were transferred to SGS of Orlando, FL. 						
2. Chain of C	ustody (CoC)					
rele Yes	ased/received b ⊠ No □ N/A	y)?	gned, and dated (ind	cluding		
Yes Ana SW	⊠ No □ N/A lyses requested 6020 and EPA 5	: AK101, SW8260), SW8260SIM, AK	102/103, SW8	270SIM,	
3. Laboratory	Sample Recei	pt Documentatio	on			
6° C			umented and within	n range at rece	eipt (0° to	

Cooler temperature(s): Click or tap here to enter text.

Lab Report No.: 1226513 Sample temperature(s): Fairbanks – 5.9°C; Anchorage – 2.3°C; Orlando – 2.6°C Comments: Click or tap here to enter text. b. Is the sample preservation acceptable - acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. c. Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.? Yes □ No □ N/A ⋈ Comments: No discrepancies were noted on the cooler receipt form. e. Is the data quality or usability affected? Yes □ No □ N/A ⊠ Comments: The data quality and usability were not affected. 4. Case Narrative a. Is the case narrative present and understandable? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. b. Are there discrepancies, errors, or QC failures identified by the lab? Yes ⊠ No □ N/A □ Comments: QC failures are discussed in the relevant sections of this checklist. c. Were all the corrective actions documented? Yes □ No □ N/A ⊠ Comments: Corrective actions were not necessary. d. What is the effect on data quality/usability according to the case narrative? Comments: The data quality and usability were not affected. 5. Sample Results a. Are the correct analyses performed/reported as requested on CoC? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.

CS Site Name: 2022 ADOT MarkAir Hangar

	b.	Are all applicable holding times met? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	C.	Are all soils reported on a dry weight basis? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	d.	Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or reporting limits (RL) less than the Cleanup Level or the action level for the project? Yes □ No ☒ N/A □ Comments: The following analytes had LODs greater than the project screening level (PSL): SW8260 - 1,2,3-TCP, 1,2-Dibromo-3-chloropropane, EDB, 1,1,1,2-Tetrachloroethane, 2-Hexanone, Bromomethane, Chloroform, Dibromochloromethane, Dibromomethane, Hexachlorobutadiene, TCE and VC. SW8270 - 1,2,4-Trichlorobenzene, 1,4-Dichlorobenzene, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dinitrophenol, 2,4-DNT, 2,6-DNT, 3,3'-Dichlorobenzidine, 4-Chloroaniline, Hexachlorobenzene, Hexachlorocyclopentadiene, Hexachloroethane, Naphthalene, Nitrobenzene, n-Nitrosodimethylamine, n-Nitrosodi-n-propylamine and Pentachlorophenol.
	e.	Is the data quality or usability affected? Yes ☑ No ☐ N/A ☐ Comments: Data quality was affected in that results exceeding the PSL may be reported as non-detect (ND) due to sample dilutions or laboratory method limitations. ND results with LODs greater than the PSL are qualified E.
6.	QC Sa	mples
	a.	Method Blank
		 i. Was one method blank reported per matrix, analysis, and 20 samples? Yes ⋈ No □ N/A □ Comments: Click or tap here to enter text.
		ii. Are all method blank results less than LOQ (or RL)?Yes ⊠ No □Comments: Click or tap here to enter text.
		 iii. If above LoQ or RL, what samples are affected? Comments: AK101 – GRO was detected in method blank affecting samples 22MAH-DR-SO and Trip Blank. SW8270 - bis(2-Ethylhexyl)phthalate and Dibutyl Phthalate were detected

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in the method blank affecting sample 22MAH-DR-SO. SW6020 – Lead was detected in the method blank. The associated sample result was greater than ten times the blank concentration. The sample was not affected.

		sample was not affected.
	iv.	Do the affected sample(s) have data flags? If so, are the data flags clearly defined? Yes No N/A Comments: All affected samples were qualified B, biased high.
	V.	Data quality or usability affected? Yes ⊠ No □ N/A □ Comments: All affected results were significantly less than the PSL. Data quality or usability were minimally affected.
b.	Labora	atory Control Sample/Duplicate (LCS/LCSD)
	i.	Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846) Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	ii.	Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text.
	iii.	Accuracy – Are all percent recoveries (%R) reported and within method of laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages) Yes \boxtimes No \square N/A \square Comments: Click or tap here to enter text.
	iv.	Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages) Yes No N/A Comments: Click or tap here to enter text.

v. If %R or RPD is outside of acceptable limits, what samples are affected? Comments: All LCS/LCSD recoveries were in control.

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	vi.	Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
		Yes □ No □ N/A ⊠
		Comments: No samples were affected.
	vii.	Is the data quality or usability affected?
		Yes □ No □ N/A ⊠
		Comments: Data quality or usability were not affected.
C.	Matrix	Spike/Matrix Spike Duplicate (MS/MSD)
	i.	Organics – Are one MS/MSD reported per matrix, analysis and 20 samples?
		Yes ⊠ No □ N/A □
		Comments: Click or tap here to enter text.
	ii.	Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples?
		Yes ⊠ No □ N/A □
		Comments: Click or tap here to enter text.
	iii.	Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? Yes \boxtimes No \square N/A \square
		Comments: Click or tap here to enter text.
	iv.	Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.
		Yes ⊠ No □ N/A □
		Comments: Click or tap here to enter text.
	٧.	If %R or RPD is outside of acceptable limits, what samples are affected? Comments: No samples were affected.
	vi.	Do the affected sample(s) have data flags? If so, are the data flags clearly
		defined?
		Yes □ No □ N/A ⊠
		Comments: No samples were affected.
	vii.	Is the data quality or usability affected?
		Yes □ No □ N/A ⊠
		Comments: Data quality or usability were not affected.

CS Site Name: 2022 ADOT MarkAir Hangar

Lab Report No.: 1226513

Methods Only i. Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. ii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages) Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined? Yes □ No □ N/A ⊠ Comments: All surrogates were in control. iv. Is the data quality or usability affected? Yes □ No □ N/A ⊠ Comments: Data quality or usability were not affected. e. Trip Blanks i. Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes \boxtimes No \square N/A \square Comments: Click or tap here to enter text. ii. Are all results less than LoQ or RL? Yes ⊠ No □ N/A □ Comments: Click or tap here to enter text. iii. If above LoQ or RL, what samples are affected? Comments: AK101- GRO was detected in the trip blank affecting sample 22MAH-DR-SO. The affected result was qualified B, biased high. iv. Is the data quality or usability affected? Yes ⊠ No □ N/A □ Comments: The affected result was significantly less than the PSL. Data quality or usability were minimally affected.

d. Surrogates - Organics Only or Isotope Dilution Analytes (IDA) - Isotope Dilution

CS Site Name: 2022 ADOT MarkAir Hangar **Lab Report No.:** 1226513 f. Field Duplicate i. Are one field duplicate submitted per matrix, analysis, and 10 project samples? Yes □ No ⊠ N/A □ Comments: Sample was collected for waste characterization. A field duplicate was not collected. ii. Was the duplicate submitted blind to lab? Yes □ No □ N/A ⊠ Comments: A field duplicate was not collected. iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water or air, 50% soil)

 $RPD \ (\%) = \left| \frac{R_1 - R_2}{\left(\frac{R_1 + R_2}{2} \right)} \right| X \ 100$

Where R_1 = Sample Concentration

R₂ = Field Duplicate Concentration

Is the data quality or usability affected? (Explain)

Yes □ No □ N/A ☒ Comments: A field duplicate was not collected.

iv. Is the data quality or usability affected? (Explain)

Yes □ No □ N/A ⊠

Comments: Data quality or usability were not affected.

g. Decontamination or Equipment Blanks

i. Were decontamination or equipment blanks collected?

Yes □ No ⋈ N/A □

Comments: An equipment blank was not required for this project.

Are all results less than LoQ or RL?

Yes □ No □ N/A ⊠

Comments: Equipment blanks were not submitted with this project.

ii. If above LoQ or RL, specify what samples are affected.

Comments: Click or tap here to enter text.

iii. Are data quality or usability affected?

Yes □ No □ N/A ⊠

Comments: Equipment blanks were not submitted with this project.

CS Site Name: 2022 ADOT MarkAir Hangar

Lab Report No.: 1226513

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Are they defined and appropriate?

Yes \boxtimes No \square N/A \square

Comments: Click or tap here to enter text.

APPENDIX D CSM and Ecoscoping Forms

Appendix A - Human Health Conceptual Site Model Scoping Form and Standardized Graphic

Site Name:	
File Number:	
Completed by:	
about which exposure pathways should be further i	
General Instructions. Follow the haticized instru	cuons in euch section below.
1. General Information: Sources (check potential sources at the site)	
USTs	☐ Vehicles
☐ ASTs	☐ Landfills
☐ Dispensers/fuel loading racks	Transformers
☐ Drums	Other:
Release Mechanisms (check potential release mec	hanisms at the site)
☐ Spills	☐ Direct discharge
Leaks	☐ Burning
	☐ Other:
Impacted Media (check potentially-impacted medi	ia at the site)
☐ Surface soil (0-2 feet bgs*)	☐ Groundwater
☐ Subsurface soil (>2 feet bgs)	☐ Surface water
☐ Air	☐ Biota
☐ Sediment	☐ Other:
Receptors (check receptors that could be affected to	by contamination at the site)
Residents (adult or child)	☐ Site visitor
Commercial or industrial worker	☐ Trespasser
Construction worker	Recreational user
☐ Subsistence harvester (i.e. gathers wild foods)	Farmer
Subsistence consumer (i.e. eats wild foods)	□ Other:

^{*} bgs - below ground surface

2.	Exposure Pathways: (The answers to the following questions will identify con exposure pathways at the site. Check each box where the answer to the question	
a)	Direct Contact - 1. Incidental Soil Ingestion	
	Are contaminants present or potentially present in surface soil between 0 and 15 feet below (Contamination at deeper depths may require evaluation on a site-specific basis.)	the ground surface
	If the box is checked, label this pathway complete:	
	Comments:	
	2. Dermal Absorption of Contaminants from Soil Are contaminants present or potentially present in surface soil between 0 and 15 feet below (Contamination at deeper depths may require evaluation on a site specific basis.)	the ground surface
	Can the soil contaminants permeate the skin (see Appendix B in the guidance document)?	
	If both boxes are checked, label this pathway complete: Comments:	
b)	Ingestion - 1. Ingestion of Groundwater	
	Have contaminants been detected or are they expected to be detected in the groundwater, or are contaminants expected to migrate to groundwater in the future?	
	Could the potentially affected groundwater be used as a current or future drinking water source? Please note, only leave the box unchecked if DEC has determined the groundwater is not a currently or reasonably expected future source of drinking water according to 18 AAC 75.350.	
	If both boxes are checked, label this pathway complete:	
	Comments:	

Have contaminants been detected or are they expected to be detected in surface water, or are contaminants expected to migrate to surface water in the future? Could potentially affected surface water bodies be used, currently or in the future, as a drinking water source? Consider both public water systems and private use (i.e., during residential, recreational or subsistence activities). If both boxes are checked, label this pathway complete: Comments: 3. Ingestion of Wild and Farmed Foods Is the site in an area that is used or reasonably could be used for hunting, fishing, or harvesting of wild or farmed foods? Do the site contaminants have the potential to bioaccumulate (see Appendix C in the guidance document)? Are site contaminants located where they would have the potential to be taken up into biota? (i.e. soil within the root zone for plants or burrowing depth for animals, in groundwater that could be connected to surface water, etc.) If all of the boxes are checked, label this pathway complete: Comments: c) Inhalation-1. Inhalation of Outdoor Air Are contaminants present or potentially present in surface soil between 0 and 15 feet below the ground surface? (Contamination at deeper depths may require evaluation on a site specific basis.) Are the contaminants in soil volatile (see Appendix D in the guidance document)? If both boxes are checked, label this pathway complete: Comments:

2. Ingestion of Surface Water

2. Inhalation of Indoor Air					
Are occupied buildings on the site or reasonably expected to be of the site in an area that could be affected by contaminant vapors? (or vertical feet of petroleum contaminated soil or groundwater; we non-petroleum contaminted soil or groundwater; or subject to "pre which promote easy airflow like utility conduits or rock fractures."	(within 30 horizontal vithin 100 feet of referential pathways,"				
Are volatile compounds present in soil or groundwater (see Appendix D in the guidance document)?					
If both boxes are checked, label this pathway complete:					
Comments:					

3.	Additional Exposure Pathways:	(Although there are no	definitive questions provid	ded in this section,
	these exposure pathways should also be	considered at each site.	Use the guidelines provide	ded below to
	determine if further evaluation of each p	athway is warranted.)		

Dermal Exposure to Contaminants in Groundwater and Surface Water

Dermal exposure to contaminants in groundwater and surface water may be a complete pathway if:

- Climate permits recreational use of waters for swimming.
- o Climate permits exposure to groundwater during activities, such as construction.
- o Groundwater or surface water is used for household purposes, such as bathing or cleaning.

Generally, DEC groundwater cleanup levels in 18 AAC 75, Table C, are deemed protective of this pathway because dermal absorption is incorporated into the groundwater exposure equation for residential uses.

	ck the box if further evaluation of this pathway is needed:	
Comm	ents:	
Inhalat	ion of Volatile Compounds in Tap Water	
Inha o	lation of volatile compounds in tap water may be a complete pathway if: The contaminated water is used for indoor household purposes such as showering, l washing.	aundering, and dish
0	The contaminants of concern are volatile (common volatile contaminants are listed guidance document.)	in Appendix D in t
_	oundwater cleanup levels in 18 AAC 75, Table C are protective of this pathway becaus during normal household activities is incorporated into the groundwater exposure equat	
Che	ck the box if further evaluation of this pathway is needed:	
Comm	ents:	

Inhalation of Fugitive Dust

Inhalation of fugitive dust may be a complete pathway if:

- Nonvolatile compounds are found in the top 2 centimeters of soil. The top 2 centimeters of soil are likely to be dispersed in the wind as dust particles.
- Oust particles are less than 10 micrometers (Particulate Matter PM₁₀). Particles of this size are called respirable particles and can reach the pulmonary parts of the lungs when inhaled.

DEC human health soil cleanup levels in Table B1 of 18 AAC 75 are protective of this pathway because the inhalation of particulates is incorporated into the soil exposure equation. Check the box if further evaluation of this pathway is needed: Comments: **Direct Contact with Sediment** This pathway involves people's hands being exposed to sediment, such as during some recreational, subsistence, or industrial activity. People then incidentally ingest sediment from normal hand-to-mouth activities. In addition, dermal absorption of contaminants may be of concern if the the contaminants are able to permeate the skin (see Appendix B in the guidance document). This type of exposure should be investigated if: Climate permits recreational activities around sediment. 0 The community has identified subsistence or recreational activities that would result in exposure to the 0 sediment, such as clam digging. Generally, DEC direct contact soil cleanup levels in 18 AAC 75, Table B1, are assumed to be protective of direct contact with sediment. Check the box if further evaluation of this pathway is needed: Comments:

n.)	ments (Provide other	- 11	•

HUMAN HEALTH CONCEPTUAL SITE MODEL GRAPHIC FORM

Site: MarkAir - FIA Main Facility (Hanger)
File Number:100.26.043, Hazard ID: 24293

<u>Instructions</u>: Follow the numbered directions below. Do not consider contaminant concentrations or engineering/land

nways.	(5) Identify the receptors potentially affected by each exposure pathway: Enter "C" for current receptors,	"F" for future receptors, "C/F" for both current and future receptors, or "I" for insignificant exposure.	Current & Future Receptors	s. s. s. s. s. s.	kers Norker Norker	ations, the control of the control of sure sure sure sure sure sure sure sure	nebise o silubs ormnes ornation ornatio	Б Н Н О Ц	- L	<u> </u>	<u></u>			ш ш				L										Revised, 10/01/2010
use controls when describing patriways.		(4)	Check all pathways that could be complete. The pathways identified in this column must	agree with Sections 2 and 3 of the Human Health CSM Scoping Form.	Exposure Pathway/Route			ا المidental Soil Ingestion	Power About to a formation of Contaminated from Cail	Dermal Absorption of Contaminants from Soil	✓ Inhalation of Fugitive Dust		Ingestion of Groundwater	Dermal Absorption of Contaminants in Groundwater	Inhalation of Volatile Compounds in Tap Water		Inhalation of Outdoor Air	Inhalation of Indoor Air	Inhalation of Fugitive Dust		Ingestion of Surface Water	Dermal Absorption of Contaminants in Surface Water	Inhalation of Volatile Compounds in Tap Water	Direct Contact with Sediment		Ingestion of Wild or Farmed Foods		
		(3)	Check all exposure media identified in (2).		Exposure Media					SOII	<u>``</u>			groundwater				air				surface water		sediment [Diota		
Completed By: Alec Jemison - Jacobs Engineering	Date Completed: 1/27/2022, revised 1/26/2024 for RTC	(1) (2)	lia that Iy affected	by the release. mechanisms. Check additional media under (1) if the media acts as a secondary source.	Media Transport Mechanisms	Direct release to surface soil	Migration to groundwater check gro	(U-Z ILDGS) Volatilization Check air	or animals			Charles to subsurface soil check soil	Volatilization	(2-15 ft bgs) Uptake by plants or animals check biota	Other (list):	Direct release to groundwater check groundwater	-br	Water Flow to surface water body check surface water,	or animals [Other (list):	Direct release to surface water check surface water		Water Sedimentation check sediment Water Intake by plants or animals check sediment		Sediment Check sediment Sediment Check surface water	Uptake by plants or animals check biotal	Outer (issy.	

MarkAir Hangar Site Characterization Report Appendix D Ecoscoping Form

Site Name: MarkAir Hangar Completed by: Jennifer Robinson Date: 6 February 2023 Instructions: Follow the italicized instructions in each section below. "Off-ramps," where the evaluation ends before completing all of the sections, can be taken when indicated by the instructions. Comment boxes should be used to help support your answers. 1. Direct Visual Impacts and Acute Toxicity Are direct impacts that may result from the site contaminants evident, or is acute toxicity from high contaminant concentrations suspected? Check the appropriate box. Yes – Describe observations below and evaluate all of the remaining sections without taking any off-ramps. \blacksquare No – Go to next section. Comments: Contaminant exceedances of one-tenth ADEC human health criteria occurred only in groundwater. Therefore, direct visual impacts and acute toxicity is not anticipated. 2. Terrestrial and Aquatic Exposure Routes Check each terrestrial and aquatic route that could occur at the site. <u>Terrestrial Exposure Routes</u> Exposure to water-borne contaminants as a result of wading or swimming in contaminated waters or ingesting contaminated water. Contaminant uptake in terrestrial plants whose roots are in contact with contaminated surface water. Contaminant migration via saturated or unsaturated groundwater zones and discharge at upland "seep" locations (not associated with a wetland or waterbody). Contaminant uptake by terrestrial plants whose roots are in contact with soil moisture or groundwater present within the root zone (generally no more than 4 feet below ground surface.

Incidental ingestion and/or exposure while animals grub for food, burrow (up to 2)

Particulates deposited on plants directly or from rain splash.

feet for small animals or 6 feet for large animals), or groom.

 ☐ Inhalation of fugitive dust or vapors disturbed by foraging or burrowing activities. ☐ Bioaccumulatives (other than PAHs, which bioaccumulate more readily in aquatic
environments) taken up by soil invertebrates, which are in turn eaten by higher food chain organisms (see the <i>Policy Guidance on Developing Conceptual Site Models</i>).
Other site-specific exposure pathways.
Aquatic Exposure Routes Contaminated surface runoff migration to water bodies through swales, drainage
ditches, or overland flow.
Aquatic receptors exposed through osmotic exchange, respiration, or ventilation of surface waters.
Contaminant migration via saturated or unsaturated groundwater zones and discharge at "seep" locations along banks or directly to surface water.
Deposition into sediments from upwelling of contaminated groundwater.
Aquatic receptors may be exposed directly to contaminated sediments through foraging or burrowing, or indirectly exposed due to osmotic exchange, respiration, or ventilation of sediment pore water.
Aquatic plants rooted in contaminated sediments.
Bioaccumulatives (see the <i>Policy Guidance on Developing Conceptual Site Models</i>) taken up by sediment invertebrates, which are in turn eaten by higher food chain organisms.
Other site-specific exposure pathways.
If any of the above boxes are checked, go on to the next section. If none are checked, end the evaluation and check the box below.
☐ OFF-RAMP: NO FURTHER ECOLOGICAL EVALUATION NECESSARY
Comments:
No contaminants in soil between the surface and 6 feet below ground surface were detected at concentrations greater than the ADEC Table B1 or B2 soil cleanup levels in 18 AAC 75. However, lead is a bioaccumulative contaminant that was detected below ADEC cleanup levels in soil between 2 and 10 feet below ground surface. Therefore, uptake of lead by soil invertebrates is possible, Since grasses typically have a shallow root system, uptake by grasses is considered unlikely.
Aquatic habitat does not exist at the site.
3. Habitat
Check all that may apply. See Ecoscoping Guidance for additional help.
Habitat that could be affected by the contamination supports valued species (i.e., species that are regulated, used for subsistence, have ceremonial importance, have commercial value, or provide recreational opportunity).
Critical habitat or anadromous stream in an area that could be affected by the contamination.
Habitat that is important to the region that could be affected by the contamination.

Contamination is in a park, preserve, or wildlife refuge.
If any of the above boxes are checked, go on to the next scoping factor. If none are checked, end the evaluation and check the box below.
■ OFF-RAMP: NO FURTHER ECOLOGICAL EVALUATION NECESSARY
Comments:
The MAH site is highly developed and mostly comprised of asphalt and gravel surfaces. MAH is not located within an ecologically sensitive area. No known endangered or threatened species are present or known to exist at the site or surrounding area.
4. Contaminant Quantity
Check all that may apply. See Ecoscoping Guidance for additional help.
Endangered or threatened species are present
Endangered or threatened species are present.
The aquatic environment is or could be affected.
Non-petroleum contaminants may be present, or the total area of petroleum-contaminated surface soil exceeds one-half acre.
If any of the above boxes are checked, go on to the next scoping factor. If none are checked, end the evaluation and check the box below.
☐ OFF-RAMP: NO FURTHER ECOLOGICAL EVALUATION NECESSARY
Comments:
5. Toxicity Determination Check all that apply.
Bioaccumulative chemicals are present (see <i>Policy Guidance on Developing Conceptual Site Models</i>).
Contaminants exceed benchmark levels (see the Ecological Benchmark Tool in
RAIS available at: http://rais.ornl.gov/tools/eco.search.php)

If either box is checked, complete a detailed Ecological Conceptual Site Model (see DEC's Policy Guidance on Developing Conceptual Site Models) and submit it with the form to your DEC project manager.
If neither box is checked, check the box below and submit this form to your DEC project manager.
☐ OFF-RAMP: NO FURTHER ECOLOGICAL EVALUATION NECESSARY
Comments:

APPENDIX E Field Notes and Forms

2012 150

K. Sicard

ADOT FAI ADOT - JOS - 700198 - HOU- 9000 Hydrant Fuel System Drainage fond Markthir ALL-WEATHER N# 550F J. Robinson A. Jurison G. Wade

o.550F- Environmental - Yellow - 4 TTT Environmental Instruments and Supplies (907) 770-9041

www.tttenviro.com

ISBN 978-1-932149-50-0

Well is located 8 paces Me

Dectared boxes.

Take more samples

Leaving BFS site

5.5 your OF West From Bis

25 gas of waste from MAW

1050

1130

1300

and - 5 paces NW of Her

Empty Syd buckers was westedness

155045

Location FAI MAH Date 8/12/22

Project Client MAH NW + Tw Locate and of the check

A. Jenim J. R. Marylis OSCO Brily + Alex mest Q OF Ce: 1 Folos 0815 Arrive @ MAH (EWB) 0830 neet w/ college of thes is discuss who and sewer line I cotions. MW 86 is new highest and because it is a private line the College util- His people cont mark where Fit runs, we will check with May Locates of OPT. MW 36 + 46 are pear cour sine and water three. Should be offset en ugh to catord then DADO CONTINUE MUNKING boring 10 66. 0915 Cal) w/ Gruy W. to discuss MW-13. we deerde to now MW 13 druly north from pletted location as to avoid traffic Zone. 0950 Enigh matking locations & set up in 1000 Record all locations in gps. 1030 Start Utility Sweep of Mut Twisters MW46= Organd y located between wover + Sever Imes, Moved 15ft towards building to avoid threading needle between lines. TWØZ - located as planted. No utility

Rete in the Rain

Location DOT FAT MAH Date 8/24/22

Project / Client Dot FAT

Objective: Dall wells at Every Air Wx: Part 0815 : Meet@ Everts as/ Geotek-see from 0830 : Saldy Meeting - See POWR & From Bock w/ eurts minrolne - 907 590 6871 Pan for TWO3 in morning ducto forfice 0900 - Site walk. Found must (prev. lost) 1000 - Checking muy water level & viabily: PID Air - Breaking some = O. Oppn Inuel = 0, oppor WL=10.4 BGL TD= 20.8' BGL 1042. Setup on MW-66 with andaller to return from grabbing gear/s lis 1102 - Startdalling more are a murch, See SB Ing 1155 collect Sample 9.5'>10' bys. 22MAH-SB66-50 Suturnton 1218 collect Surple from 2 to 4 ft bys
in highest 9ID reading Enternal 22 MAH - SBG6-50-2-4 = 3,3 pp 2:23 Fine the well and cap. See well completion from WL = 8.7 ft bloc

Rete in the Rein

14:20 Daller, took lunch Ideparted site to grab more materials.
Well screen = + -18-8 ft bgs. well forshed with flux mount. in great /concrete under plow line. 1425 Received permission from Cargo mge to doll well in busy area. mos to ss.13/m2-13 una doller came back. 15:30 Began drilling / cutting through asphalt is half ~6". See SE log. RID 05-2' 4,6 ppm 2-4" 4.7ppm 4-6' 208ppn 8-10 11.1 pm + sample WL Situated zone ~ 10ft bas CHU+ / 22 m AH - SB13-SO-10-10.5 16:00 from 10 to 10.5 ft bags Saturated Gow 200. 16:15 Collect 22mAH-5B13-S0-8-10 from 8 to 10 ft. bys Highest PID = 11.1pp

Project Client mAH / FAI / DOT

16: 25 Dellers tried publing cusing but too difficult. 16:38 Driller Grabbed larger tooling. 16:50 Drillers atknot to retrieve casing, and drill past it with larger tration 17:15 No progress Reassessed options 17.20 Decided to abandon Apluy well, and step wer & drill tonorrow. 17:35 Pluged parted hole . Packed we 17:50 Exite SIDA area through gente 21. Packed up 1800 Departed Site. 18 05 JOW Shed Law Locked, Will stage downs tomorrow. 18:10 Departed amport 18.18 Arrive at office unload samples to fridge. 18:30 Six Rep & Call Gi Wade. 19:00 End of field day 8,24,22

Location FAI MAH/Everts Date 8/25/22 Project / Client FAI MAH / DOT PN: D3536 200 Weather: Hostly surry 50-70F PPE Level D modified Personnel: F. Sicard SL/SSHO Teubs A Jemison Geologist Jacob L. Ams will Gea /SZ/ Jacobs K. Johnson & C Liver Singles Jacobs Everts Greatek Dillers: S. Simos, Johan Site Contacts : Ed Bell (Count sufety) Everts : Buck (maint, ops mgr) Everts: Mark - Air Cargo mar. Everts staff on site but not involved with dellings just accuss. Stepping by site: Elisa Themas (FAI DOT) Objectives: Drill wells on site sande soil, monitor vocs with PID Sample GOD. Plan: start in high-treffic plane area while planes are gone ~8130 0700 Meet at office - calibrate RD YSI , turb director yather supplies 0743 Turbidity Meter Col. Hech 2100p Tobidineles 5/N 040 000 55554 Strubled set Let A2082 LOTHORS LALMON LUMBS FOUNDS

Project / Client FAT MAH DOT COAT.

YSI Professional Serves S/N: 136100576 PH 60+ # 1278747 6.99 / Stel Con1 # CC22315 126640 cm V 4341 2382 mV V 0815 Depart of fice. Sufery ntg-see Power A 0900 Set opa twor 0915 Begin drilling for Twoy Plan to set skreen of temperall from 9ft bas to 12ft 94 bas to cophire GW: nterface (~10 ftigs 093 Franshid Install of Twolf Marca to MW 70 and Sor UP Elica Thomas (EAI/DOT) Stoped 0944 by the. Begin deling at MW-76 Ethoras departed site 1 Tobson of L Livers escorted onto side are st up to sure at Two4 See SG lag for soil during tion Asphalt 0 to 0 8 Et bas.
PSD radings from MW 76: Viches interval = 6 + 8 ft bas 1 8 0 - 6.9 pem Rite in the Rein

Location MAH FAI / Enerts Date 8/25/25

Project / Client TAL DOT MAH

Temp well TW-04 Stept up quickly reportedly - See sheet 1150 + Post Note: Gu team sampled mw-4 (in parking lot) front thing in the morning. Sample time: 04:50am 09:50 1 22 MAH-MW4-CZW See sompling from for details Reartedly stabilized quickly 11:55 Pack ed up gent.
Drillers placed of gent casing lasphalted. Well casing complete. Wim wasn't working. will meas. later. 12:35 Departed SIDA area. 12:45 Lunch on site. 13:15 Organized CW samplers for development at mw-66, 13 35 They ran to TIT for singe block Dallers mobil to mw-13 in cargo are to redrill 14.15 Gw Hear returned for devel 14-28 Started development at mules

14:30 Developed with waterra and

swae block for 2-3 mins per 21 inverval plus another 20 mins of surging. Before surtaking to peri pung. Suderel sheet. 15:05 Problems with dulling - met refusal again. Decided to return to mw-13 tomorrow with the anger. Refus w/ 450 4/ Bas 15.15 Drillers packed up mo 3 and of SIDA 15:35 Drillers & up @ Tw03 15:40 Dalless Decar the Two sales Screens 15.45 Start drilling - in ruge asphell at TNG3 16:00 Parish In the B TWOB 16:10 Bagin dolling at MW-12/58-12 16:15 Thru applit starting macro are Sea SB log for details GW Saturated Zone 10.5 to 1) ft bys 16:55 Collect 22m AH-5812-50-10.5-11

Highest from 10.5 to 11 ft by

from 2 + 4 ft 635,

PID reading from 2 to 4 ft bgs

at 2.0 ppm

17.00 Collect | 22MAH-SB12-SD-2-4

Project / Client FAL DOT

17:05 Dillers continued with 45 toolin * Post - note. 16:40 Gw sampting team: sampled TW03: 122MAH-W03-GW 17:25 Poct-note; Development mw-66 west very quickly - min swage was ~33 gals. Stabilized before he thing that see dev form 17:30 Well developed (mw-66) Loaded IDW Soil and water 18:10 A Jemison Departed site, dropped (5) Staged IDW soil I water at Env. cold strage bldg. IDW Water = approx. 40 gals Jow soil - approx gals (Patront) into them + file. 17:35 * H. Johnson & Livers de parted site + office & mouded sandes to for de 18:20 Prillers set well - see form. 18:35 Dollars extracted TWO3, and hole 19:30 Dolers ha shed well vault restell 19.35 All gersonal Del ort 5/te End of Food day Rite in the Rain

Location FAI MAH / Everts Date 8/26/25

Project Client ____ A Do T

0725 Y S	1-50-154102751
	ORP: 216 (212-242)
	5 C: 7.422 (7.49)
	PH: 306 (6.5-3.2)
	Temp: 21.17
	alib Turbidi neter. & PIDs,
	see calib Shoot
0742	Packed up, mosich + site
0800	Arr. it site met drillers.
0805	Safety mtg - see POWRA form
0020	Set up rig to drill TWO2
10075	Sylety briefing for drill rig. Start Liling / pushing
0-0-5-6	TWO2 - set screen from
	9.5 flbs to 12 25 flys
0905	well installed , See form.
	mos ng to cargo 1 mw-13
0931	Setup to ruger mw-13
0957	Reached TD of 181 bgs.
	Shutter IDW Soi) to IDW
	building.
11:00	Well is complete with Sand
	bentonk gravel.

Kite in the Kein

Project Client AL DOT FAL MAH

11:20 Pucked up drivery doorted well mw-13. Mobil Gw tramto mw 76 11:20 Started GW development 11:41 at mw 76. Firshed singe & purge u. th 12.01 watera & singe block. minimum of 3 mins por 2' section of screen. 2 8 gels 12 02 Threed on peripump to purge remaining ~ 35 gals (min. purge) See development from for mid 76. 12:22 Post Note: (11:45 Drillers pulled TWO2 at 11:45) Drillers Lunch. Gr Wade returned to site SIDA to supervise K. John. A L. Lover 12:20 K. Sicard deported siDA to presee drillers on next well(s) 12.30 Lunch. 12:45 Drums from Gestek dropped at site K. S. card set them up information 13:15 K. Sicord back on site, met dullers 13:30 Buck escoited as through gate 22 13:40 Set up on TWØ1

Location MAH/EVEHI Date 8/26/22

Project Client FAL DOT

13:50 Byen pushing TWOI
Set screen to 9.5 Hbas
14:02 down to 13 25.
Dollers mos + SBN W-3b.
14:02 down to 13.25. Dalles nos + Shw-3b. 14:25 Started drilling mu-3b.
15:15 SAMPLING SHEAR ZELJE @ 95-10
ZZMAH - SB3B - SO -9.5 -10
IX 8 07 AMBOR - AKICE/105 8270 USD
1× 402 AMBON -1 MEDIL
- AKICI, VCCS, EDB
+42 117.85y
Meury 1 BFB VW10-31-26
530 Soupeing voces
ZZMAY - SB3B 50 - 2 -4
WE OF AMBONE
Lx 402 Amero w/ May
14:15 Post. Nove:
15.20 Well MW-76 developed
16:25 Will down of mw 3 - see from.
16 30 K Junson dump wast at lold Swage Gran
Drum #1: MWO4 (~15g1), TWO4 (~05gal), 1W03(~0.5gd), MWton (~33gd),
MNTD (~10 and) Rete on the Reserve
Kite in the Kein.

Project Client FAI DOT

0700 prove at office to particle YSI: SINO576 Pro Plus Conf Son . 22A1C, 01/4/24 Temp: 21.1C PH: 6.8-7.2, 7.03V SP Cord: 7630-8010 Wem, 7460 x, 400 ORP: 212,242mv, 235,5v Recal Cond: 7640 us conv Turb 35559 2100P Turbid meter 5.4 - cal 6.41 S1.6 - cost check S6.6 902 - Cal check 508 0735 Depart office for MAH 0800 Tailgate; New geos on ng, Slips, tops, Falls Personelle: 10 ms GWade L Livers, KJohnson

0830 Begin doiling at MW86

0900 Collect 221 AH-SB8650-6-8

0915 Collect 221 AH-SB8650-10-10= and dup 22MAH-SB80-20-10-1052 0940 Installed Well MW810 1045 Well completed

Rite in the Rain

Project / Client D 353 (0200)

1100 Lunch 1130 Elivers e Greatell decomision

1200 KJohnson, 4 Wade to MWB Er dev.

1245 Complete Surging Screen

and Stort pumping 1500 K Johnson depart MWB for Sampling at MW66 SI Cal 556 MPS

Temp = 21.77C SPCond = 7630-8010, 7634/

ORP = 212-242, 2176/ PH = 68-7.2 7.01 1530 Collect 27MAH-MW 86-GW

1545 Begin Cleaning up Site p deport for office G Wasle

to Storage to dump waste 1630 Depart Fairbanks office

for EOD

123 gl 27

Location FAI MAH

Date 8/29/22 53

Project Client

0730 Armve At FBKS OFFICE 6740 calibrate PIDs (See form) 07150 Cal YSI 556 MPS Temp: 21.49C PH: 6.8-7.2, 7.05 ORP: 212-242 mV, 214 6 mV Solard: 7630-8010, 45/cm, 7645/cm Propus SIN 0576 Temp. 20.50

0H 68-7.2, 7.07 ORP 212-242 nV, 238.9 nV So Gord 10-18:14 7630-8000 year, 7106012 Recall cond.

1800 Calibrate Tubriday Muber 240000 # 35359 Shadical Lot A2082

D. NATU / 20 NOTU / 100 / 800 / 842 Arme at MW86 for dev

850 Started Suaing 2ft whereals

120 Started pumping MWBb -Alec Stayed at MWBb KADEIZT

- A Jemison Stay at MW80Frpump of KJohnson Sep up to Singe MW12 0940 KJohnson Deg 1 StrogryMW12

1005 Begin pumping MW12
1120 Complete dev at MW86
130 Begin readings at MW12
1205 Complete dev at MW12
1220 Dump Waste
1330 Begin Sirging at Mw36
1545 Complete dev at Mw36
1600 Dump Waste
1700 Deport for EOD

Location MAH/Euchs sampling 8/30/22

Project / Client D3536200

0800 Arrive & PUKS Office 0845 CN-brate PED (see Form) 0850 Caltrale YSE Pro Plus S/N 0574 Tepn 2 8 21.5°C pH: 7,02 V ORP: 236,5 Sp. Cond ? 1640 / Calibrate Torbidimeter 0850 TURB 3659 5.4 - cal 5.60 51.6 - cal 56.5 502 - car Sil 0430 Leve office 0940 since at MH Everts 1000 Arrive at MW 13 1035 Steeled purply of MW13 1100 Stability reached 1105 Sample coefected 22MAH-MW13-GW 1140 Leaving MW 13 headed to MW76 1150 Arme at MW76 1210 starty Durging & MU76

Location MAH/Everts Gw Suply 30 8/31/22 07

Project / Client FAT DOT

0730 med of Flks Office 0731 Begin Carboding Equipment 0135 Turb 36559 54 - (a) check 6.0 61.6-56.9 502 508 6740 Californie 4SI ProPlus S/N 0576 Temp : 21.9° 020 \$ 234,6 / Needs Cas. OH: 7,03 V Col conductivity using 1413 issen con 3td Lot; cc 22315 Exp: 02/10/23 21th realing was 1200 corrected to 1305 V 0912 Anne at MAH/Ends e MW86 0935 Start pumping @ MW-86 1005 Show ted of Museb 1014 Supe celler be 22MAH -MW 86-GW DOD! 22 MAH - MW86-GWA 1055 Leave Location of new 82 (or new 12

instrumental - Yellow - 4.75° x 7.5

Harritan and supplies

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ISBN 978-1-932149-50-0



Health & Safety Instrument Calibration Log

PROJECT NO.:	D3635200	
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PROJECT LOCATION: DOT FAI MAH

PROJECT ACTIVITY: Installation OF TW + MW

Date	Time	Instrument	Mfg Model	Serial No.	Calibration Gas	Lot No.	Concentration	BKG Counts	Span Settings	Initials
8/24/22	730	PAD	MINI RAE 3000	592-918318	Isobutulene	18-6614	100 ppm	Os Oppm	100.5pm 100.0pm	&Q
30.7		PIO		592-91831R	I Sobutylene	18-6614	100 ppm	OiOppm	100.000m	40_
8/24/22	715	OIG		592-913313	Isobstaline	13-6614	100 com	0,0 ppm	100-00m	u
3/26/22	720	PIO	Minifac 3000	592-914824	Isob-Miler	13-6614	100 ppm	0.0 pm	W. Ofom	w
8/27/22	715	P20		512-918318		18-6614	wo pan	Ow form	100.0 pm	66
8/29/12	740	BIO	MiniRae 3000	592-918318	Isobertylene	13-6614	100 ppm	O. Oppn	100.1pm	<u>ZA</u>
2129	745	PLA	Mr. Re 3000	592-965-991	a solutulere	13-604				
8/24/22	745	PID	Mrni Kae 3000	592-914824	I Santyline	18-6614	worpm	O.O Apn	100.1ppm	AS
8/30/22		PID		592-914824	Isobutyline	18.6644	100 ppm	0-000m	100 1-pom	MC
8/31/20	734	PPO	Mrs Rac 3000	592-914824	150butylene	18-6614	Hooppin	0-0 ppm	100 , 0 ppm	mc
,										
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FIELD TEAM LEADER SIGNATURE

PROJECT

MAN FAI

WELL ID:

MW3B

Flush Mount, Water Table Screen DRILLER.

STEVE Sim4S

8/26/22

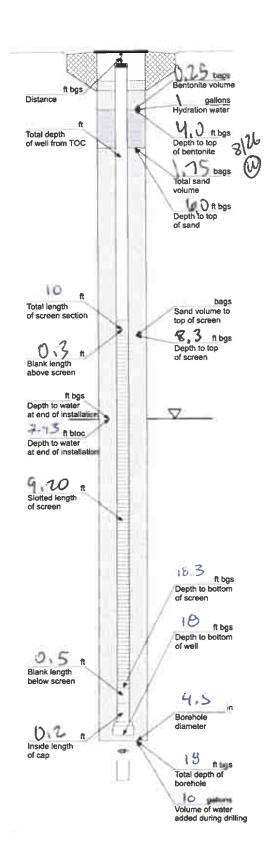
EQUIPMENT GEOPROBE

78222T

TORIVE DTYS

LARRY AMSKOLD LIVERS GEOLOGIST: LANKEN

BOREHOLE ID MW 35



Size: 81 Vinnotes
Manufacturer: Motosa Vos

Concrete around Vault Type: MULK propose MIX
Manufacturer: Frimson XX Block

DATE(S) INSTALLED

Well Riser
Size: 2-inch Sch No, ASTM F480 flush threads
Material PV Manufacturer: Mossissa Boos

Well Screen Size 2-inch Sch 40 ASTM F480 flush threads Slot size: 0.020 in | (010 in Sand size (if pre-pack) (20/40) | 16/30 | 10/20 Material: (PVC) Manufacturer: Johnson

End Cap BULLET

Bentonite (sodium) (U) Size 50 lb bao Manufacturer: Bare J/ Hall bythic

Sand

Size: 10170, 50-lb bag Manufacturer: Colorado Silica

Sand Utilization for 100% Open Hole (No Collapse)

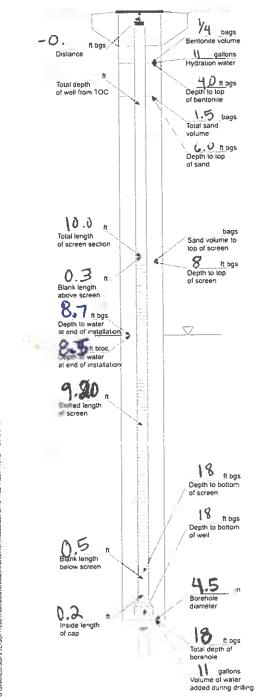
Borehole Diameter		Sand Volume (2-inch Well)				
Inches	Feet	Bags/ft	Bags/11 ft	ft/Bag		
(T.5)	0.38	0.18	19	5 7		
6	0 50	0.35	3.8	2.9		
8	0.67	0 65	7.1	1.5		

50-lb bag = 0 504 ft² based on a porosity of 0.4 corresponding to a bulk d ==== 99 3 lbs/ft²

Other Notes

INSTALLATION COMPLETE AT 1600

LADOIS OF RISER OUT OFF AFTER INSTANTAN MEASUREMENTS **Jacobs** PROJECT Mark Ar Hangar MW-66 DATEIS INSTALLED 8 2 Greoprobe EQUIPMENT K. Sicard & A. Jemison BOREHOLE ID MW - 6 b GEOLOGIST



Vault & diameter Size: Manufacturer Morrison Bros
Concrete around Vault Type: Asphalt Cold paich" Manufacturer QPR
Well Riser Size (2) Inch Sch 40) ASTM F480 flush threads Material PVC Manufacturer 30000000000000000000000000000000000
Well Screen Size 12-inch Sch 40 ASTM F480 flush threads Slot size 0 020 in 0 010 in Sand size (if pre-pack) 20/40 16/30 (10/20) Material. PVC Manufacturer: 13hps. n
mornson Bros Cone Cap
Bentonite (sodium) Size 3/2 5/4 50 b bag Manufacture: Hallibatton
Sand Size: 10/20 , 50-lb bag Manufacturer Colorado Silica

Borehole D	liameter	Sand Volume (2-inch Well)			
Inches	Feet	Bags/ft	Bags/11 ft	ft/Bag	
4.5	0.38	0 18	19	5 7	
6	0.50	0.35	3.8	29	
8	0.67	0.65	7 1	15	

Note | 504 ft based on a porosity of 0.4 corresponding to a bulk density of 99.3 lbs/ft 2

Other Notes

,19 (rabius)

Drillers added: 1.5 bags of sand 25t thick 8 to 6'bgs (yy pay bento ite) 2' hole plug 6-4' (3/8")

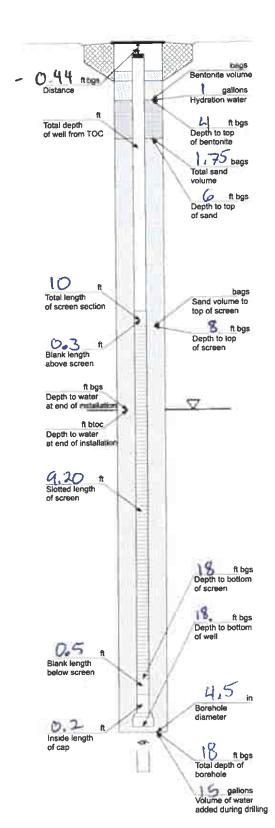
4' to suff. pea grand

ガノネん 20'-ligat H20 alled during drilling

Geograbe 7822DT

EQUIPMENT: GEOLOGIST:

BOREHOLE ID 58 76



DATE(S) INSTALLED

Size: , 50-lb bag Manufacturer: Colorado Silica

Sand Utilization for 100% Open Hole (No Collapse)

Borehole Diameter		Sand Volume (2-inch Well)			
Inches	Feet	Bags/ft	Bags/11 ft	ft/Bag	
(4.5)	0.38	0.18	1.9	5.7	
6	0.50	0.35	3.8	2.9	
8	0.67	0.65	7.1	1.5	

Note: 50-lb bag = 0.504 ft³ based on a porosity of 0.4 corresponding to a bulk density of 99 3. bs/ft³

Other	Notes

rents/Art1 WellConstriforms r1.odrl/Flush, WirTbl 2016.04.11

FAI MAM WELLID: MW-88

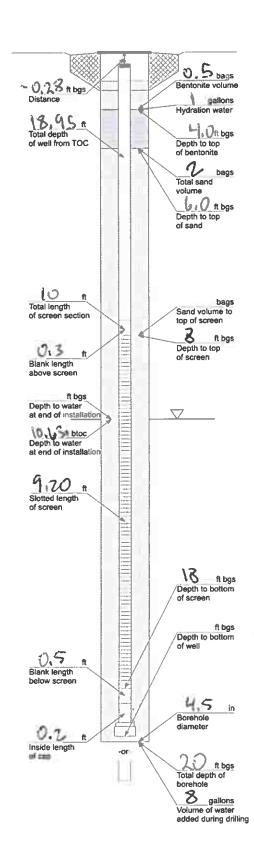
Stever simus DRILLER:

DATE(S) INSTALLED: 3/27/27

EQUIPMENT: GREDPODE 7822DT DTUS Tushing

GEOLOGIST: LUVERS

BOREHOLE ID: NW -33



Vault Size: 8 Jumbles Manufacturer: Marisaa

Concrete around Vault
Type: MVW 12 FAN WAX
Manufacturer: 4AITMANKS BLOCK

Size: C-inch Sch 40 ASTM F480 flush threads Material PVC Manufacturer: Mossisan Bros

Material: PVC
Manufacturer: 12hy

End Cap cone cap MOSTISM Brus

Bentonite (sodium)
Size: 3/8", 50 lb bag
Manufacturer: Cively Hall, Exton

Size: (シ/ひ), 50-lb bag Manufacturer: Colorado Silica

Sand Utilization for 100% Open Hole (No Collapse)

Borehole l	Diameter	Sand Volume (2-inch Well)					
Inches	Feet	Bags/ft Bags/11 ft ft/Ba					
4.5	0.38	0.18	1.9	5.7			
6	0.50	0.35	3.8	2.9			
8 0.67		0.65	7.1	1.5			

50-lb bag = 0 504 ft³ based on a porosity of 0.4 corresponding to a bulk density of 99.3 lbs/ft³

Well completion at 1050 8 gallons water added

Jacobs

tion PROJECT Mark A.T. Hangar (Everts A.S.)
Steve Simus - GeotTek DATE(S) INS

WELLIDI MW-12

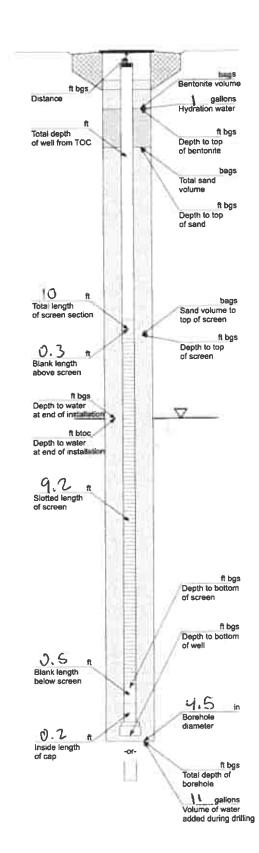
Flush Mount, Water Table Screen DRILLER.

DATE(S) INSTALLED 8 25

7822 DT Grapabe

Karr! Sicard GEOLOGIST

BOREHOLE ID 58-12



Vault Size: 81 diameter Manufacturer: Mornigon Bous
Concrete around Vault Type: As phalt Manufacturer:
Well Riser Size 2-inch Sch 40, ASTM F480 flush threads Material FVC Manufacturer: Macroson Bross
Well Screen Size (2-inch Sch 40) ASTM F480 flush threads Slot size: 0.020 in (0.010 in) Sand size (if pre-pack) 20/40 16/30 10/20 Material (PVC) Manufacturer:
Cone tip
Bentonita (sodium) Size, 50 lb bag Manufacturer:
Sand Size: 10/70 , 50-lb bag

Sand Utilization for 100% Open Hole (No Collapse)

Borehole !	Diameter	Sand Volume (2-inch Well)				
Inches	Feet	Bags/ft	Bags/11 ft	ft/Bag		
(3)	0.38	0.18	1.9	5.7		
6	0.50	0.35	3.8	2.9		
8	0.67	0.65	7.1	1.5		

Trous.

50-lb bag = 0,504 ft³ based on a porosity of 0.4 corresponding to a bulk density of 99.3 lbs/ft³

Other Notes

Manufacturer: Colorado Silica

Added - 12 gals weeter
during dull my dischling

Jacobs

Flush Mount, Water Table Screen

DRILLER.

Steve

FAI

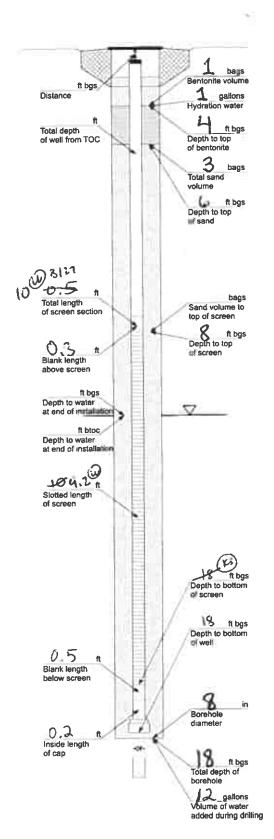
WELLID: MIAL - 13

PROJECT	Mark Air	Hungar	(FARTE	the)	L	110 15		- 1	
Sinas -	GROTEK			DATE(S) INSTALLED	8/24	8/25	<u> </u>	26:	7.9-

EQUIPMENT: TO EESE

Sicard GEOLOGIST Karr.

Drilled with macro core, then 45 SB-13/ MW-13 Finished dalling BOREHOLE ID: with-



Vault C ! I
Size: 8" diameter Manufacturer: Macrison Bros.
Manufacturer: <u>Muchson Bos.</u>
Concrete around Vault
Type: N/A Asphalt Manufacturer: '() ps-
Manufacturer: <u>'(Δ</u> ρξ
Well Riser
Size 2-inch Sch 41, ASTM F480 flush threads Material PVC
Material PVC
Manufacturer: Johnson Bros
Wall Career
Well Screen Size 2-inch Sch 40 ASTM F480 flush threads
Slot size: 0.020 in 0.010 in
Sand size (if pre-pack): 20/40 16/30 10/20
Material: PVC
Manufacturer: 12hn>2n
Walldlactorer. Witter
End Cap
core to
Bentonite (sodium)
Size: 3 / a 1 50 lb bag
Size: 3/g', 50 lb bag Manufacturer Surb.
Middledovered
Sand
Size: 1/2 / 742 50-lh had

Sand Utilization for 100% Open Hole (No Collapse)

ft/Bag

5.7

2.9

1.5

Sand Volume (2-inch Well) **Borehole Diameter** Bags/11 ft Inches Feet Bags/ft 4.5 1.9 0.38 0.18 0.50 0.35 3.8 8 0.67 0.65 7.1

Manufacturer: Colorado Silica

::050-lb bag = 0.504 ft² based on a porosity of 0.4, corresponding to a bulk density of 99.3 lbs/ft².

Other Notes

Added ~12 gals water during dulling Difficult - compacted sgravel ~3-4' refusal Auger made it through no problem.

Well Decommissioning Report



Well ID, Date, Location

Well ID	Well Owner	Project Number	Date of Work
MW-06	FAI	·	8/27/22
Site Name	Location (e.g., city, state)	Geographical C	Coordinates
Markair hangar	Fairbunks, AK	Unk	east / long
9		Unk	north / lat
	Everts Air Cargo	Unk-	system, units

Rationale. Contractors

Reason for Decommissioning	Decommissioning Oversight	Drilling Subcontractor
Not viable	Jacobs Engineering 4300 B St, Suite 600 Anchorage, AK 99503 907-563-3322	Geo Tech
	Field Lead:	

Well Dimensions

Type of Construction	Stickup	Total Depth As	Total Depth As-Is	Depth to Water
	(ft ags)	Built (ft btoc)	(ft btoc)	(ft btoc)
PVC Flush Mount	Grand Level	UnK	unic	UNE

Decommissioning Details

Decommissioning Procedur	e Decommissioning Notes
Braight up pvc-brat 3' Attempt to try bot Fill with bestonite	
Qty of Sand	Type of Sand Qty of Bentonite Type of Bentonite
NIA	Type of Sand Otty of Bentonite Via 2 diametr 3/8

Waste Handling

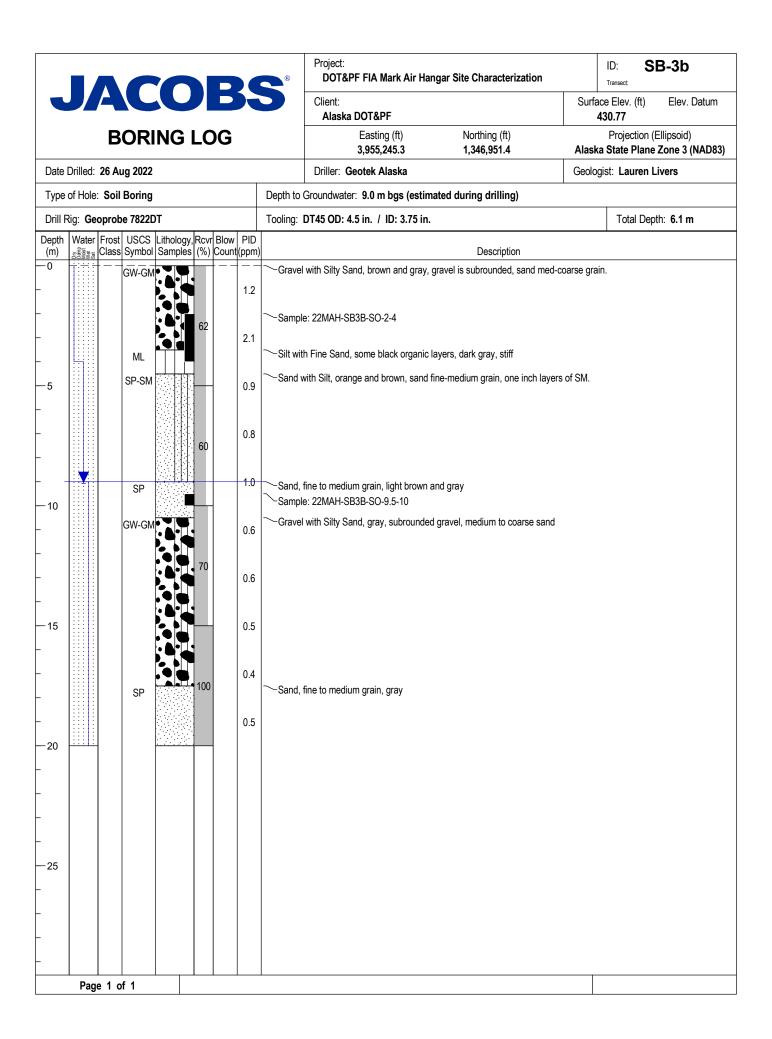
Waste Generated	Waste Disposition
~3' pvc	Land Fill (1)

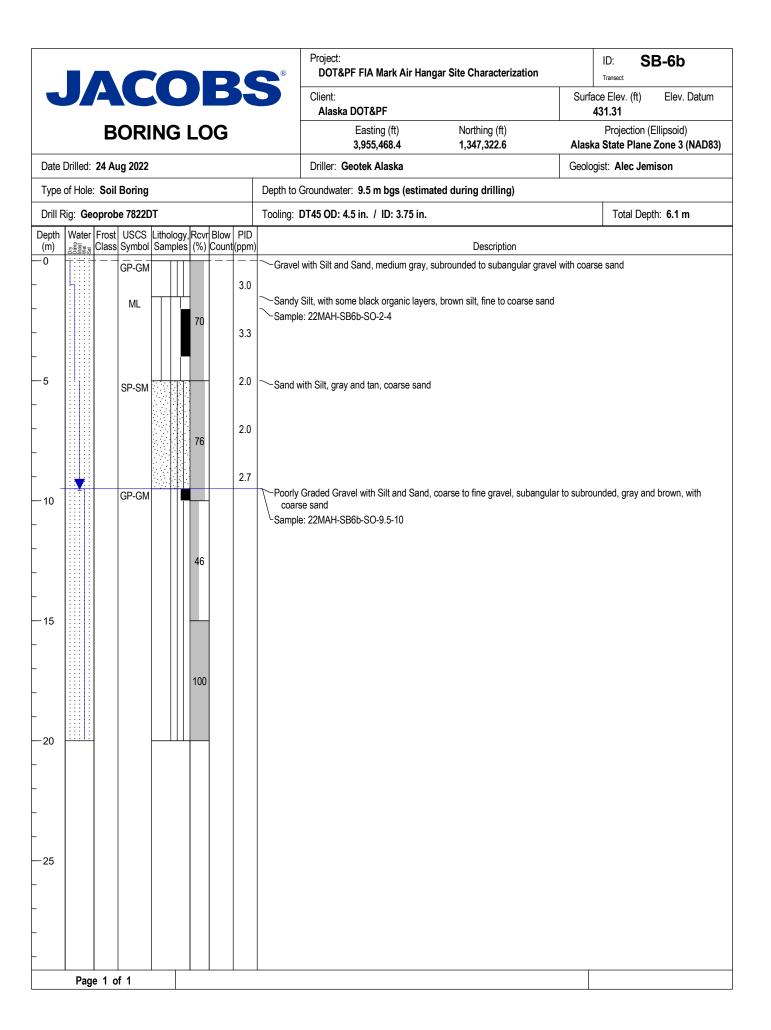
Well Decommissioning Report

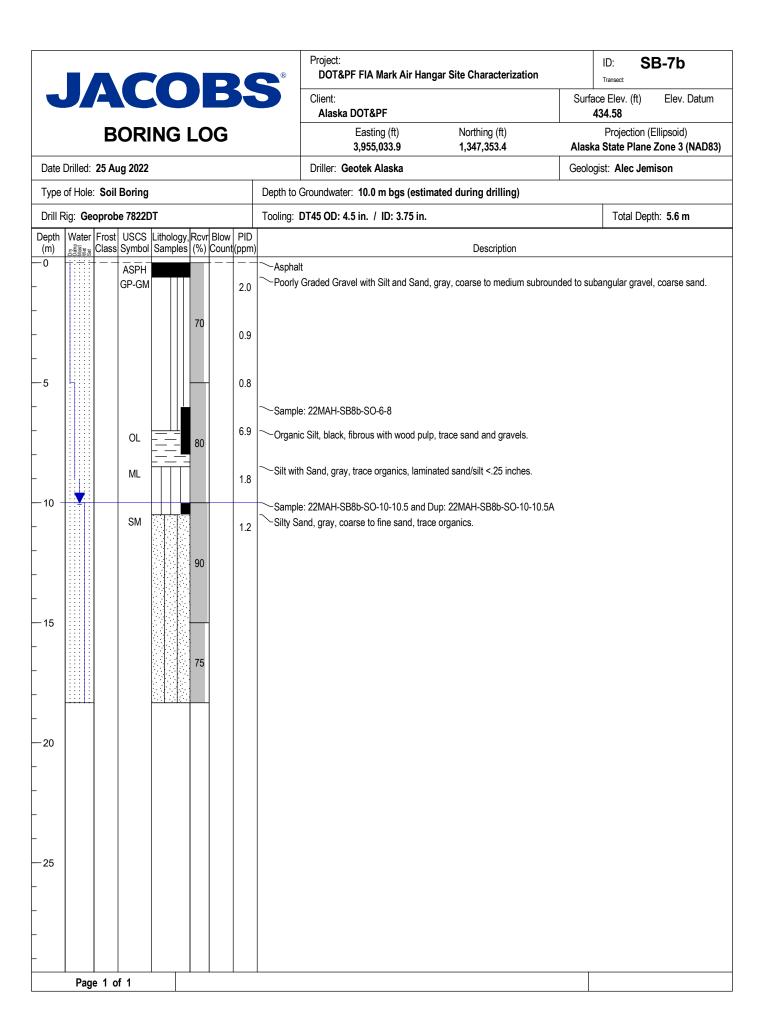


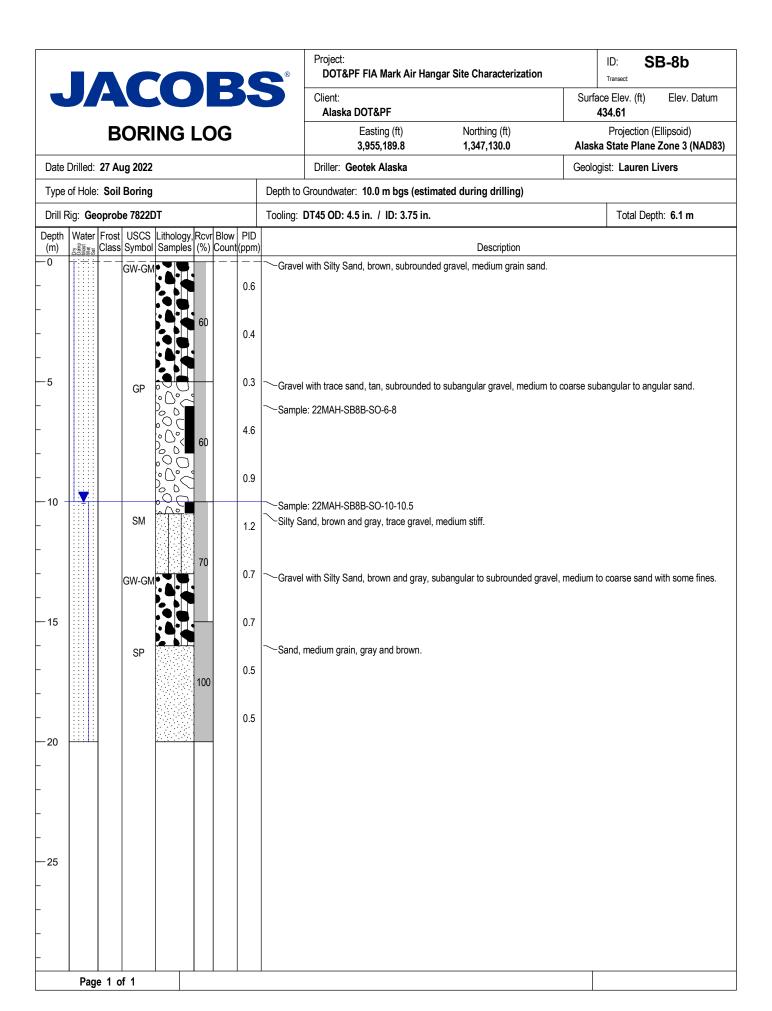
Well ID, Date, Location Well Owner Date of Work Project Number Mc/LA.- Hense- For benks Ak August Geographical Coordinates Unk east / iong north / lat Eve, 45 Air Coigo system, units Rationale, Contractors **Drilling Subcontractor** Reason for Decommissioning **Decommissioning Oversight** Not Vieble Jacobs Engineering Goolech 4300 B St, Suite 600 Anchorage, AK 99503 907-563-3322 Field Lead: **Well Dimensions** Depth to Water Total Depth As Total Depth As-Is Type of Construction (ft btoc) Built (ft btoc) (ft btoc) PUC Flush Mosat unk 7.15 17/0 **Decommissioning Details** Decommissioning Notes Decommissioning Procedure Punched out Filled to Tow with Bentunke

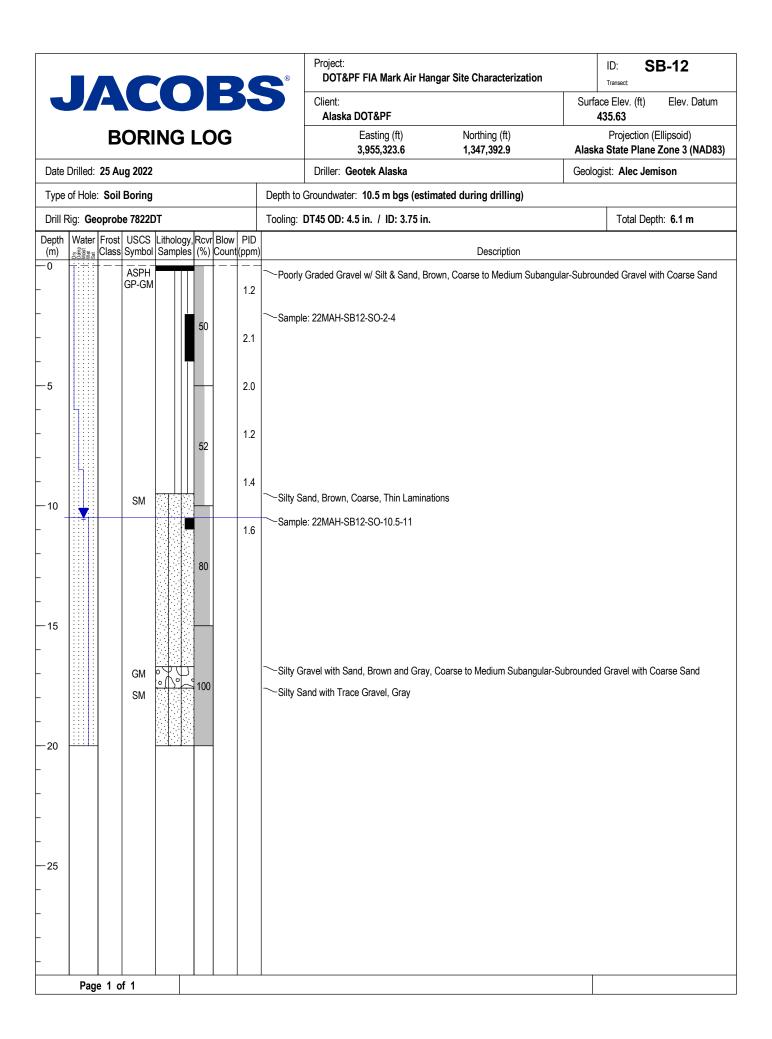
Borron of well Pullend entire well 3/3-inc Bentonte **Qty of Bentonite** Type of Sand Qty of Sand 25/65 **Waste Handling** Waste Disposition Waste Generated

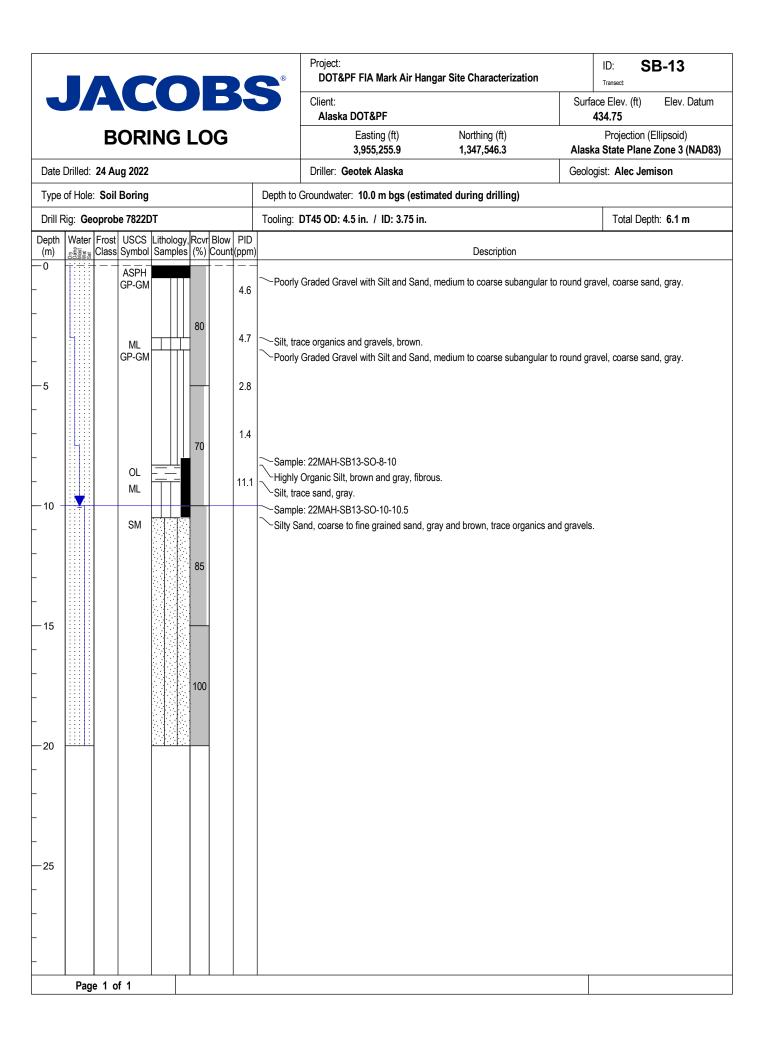




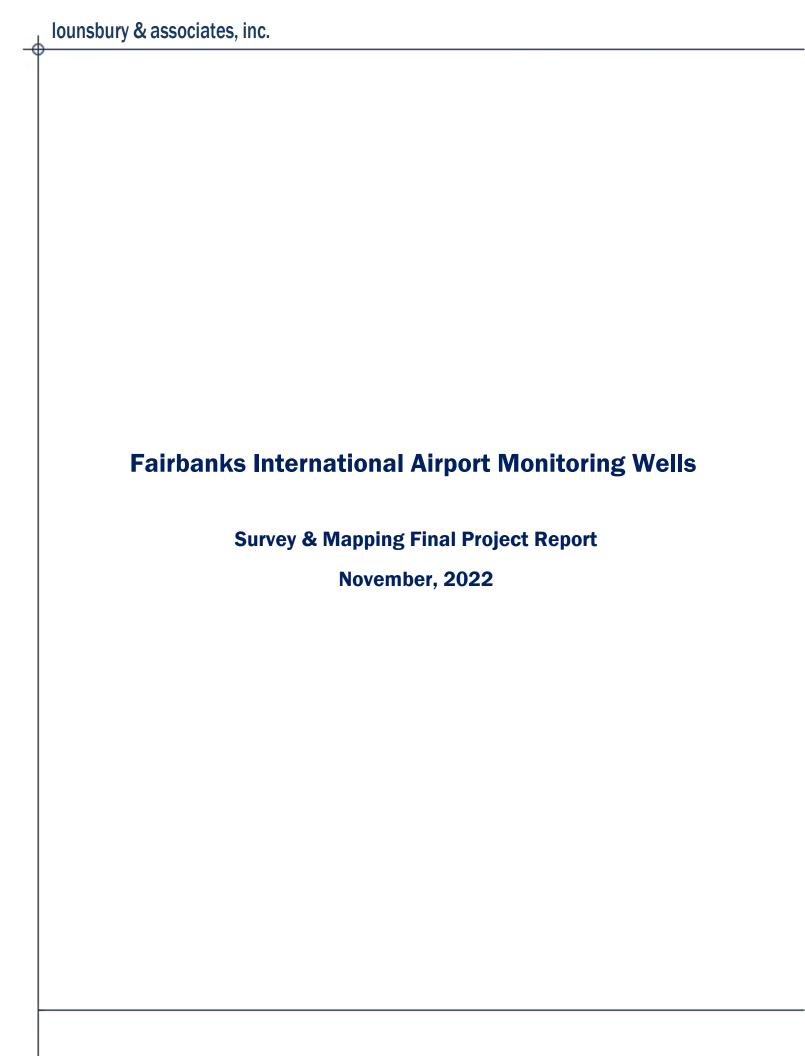








APPENDIX F Surveying Report



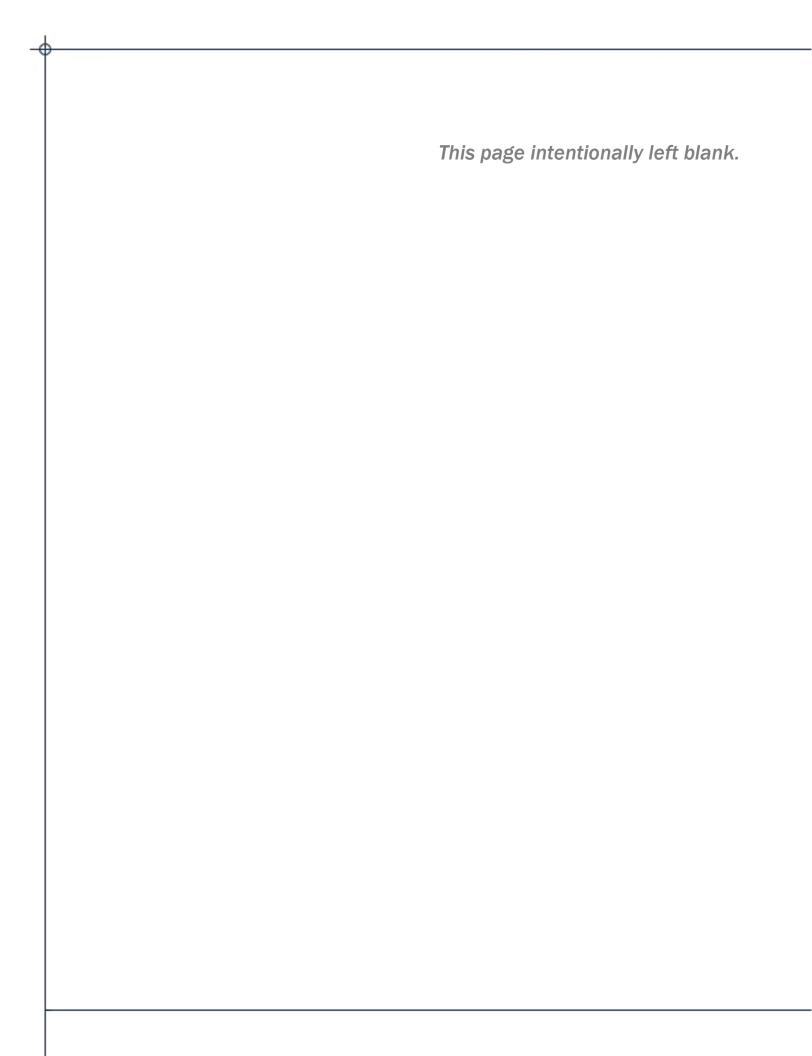


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1. Project Overview and Summary

Purpose of Survey:

The purpose of this survey was to determine coordinates and elevations for 7 monitoring wells and adjacent ground elevations at the Fairbanks International Airport (FAI) MarkAir Hangar and 3 monitoring wells and adjacent ground elevations at the FAI Brooks Fuel site. The figure below on the left shows monitoring well locations from the MarkAir Hanger site, and the figure below on the right shows monitoring well locations from the Brooks Fuel site. Work was performed by Lounsbury & Associates, Inc. under contract to Jacobs Engineering Group Inc.





Date of Survey:

Fieldwork for this survey was completed by Lounsbury & Associates, Inc. in November, 2022. The field crew consisted of Jordan Shaffer, LSIT and Alex Jeric.

Equipment and Methodology:

GPS surveys were performed using Trimble R10 and R12i receivers. Project control was surveyed using static GPS survey methods. Differential leveing was performed using a Leica DNA-10 digital level.

2. Survey Reduction Narrative

Coordinate System Summary

COORDINATE SYSTEM:

THIS PROJECT REFERENCES THE NAD83(2011), STATE PLANE ZONE 3, COORDINATE SYSTEM. COORDINATES SHOWN ARE GRID WITH UNITS IN U.S. SURVEY FEET.

BASIS OF COORDINATES:

THE BASIS OF COORDINATES IS PRIMARY AIRPORT CONTROL STATION (PACS), FAI A (551), HAVING PUBLISHED COORDINATES OF

N: 3956198.298' E: 1351803.084'

AND SECONDARY AIRPORT CONTROL STATION (SACS), FAI B (552), HAVING PUBLISHED COORDINATES OF

N: 3959156.885' E: 1352843.210'

BASIS OF BEARINGS:

THE BASIS OF BEARINGS ARE NAD83(2011), STATE PLANE ZONE 3, GRID BEARINGS.

VERTICAL CONTROL STATEMENT

VERTICAL DATUM IS NAVD88 (GEOID12B), AS ESTABLISHED BY HOLDING THE PUBLISHED ELEVATION OF FAI A FIXED AT 431.4' AND HOLDING THE PUBLISHED ELEVATION OF FAI B FIXED AT 432.2.'

Field Procedures – Control and Topography

Recovered horizontal control was supplemented with four additional set control points (401-404), consisting of 1" mag nails set in the ground. The static control network included two recovered control points (551, 552) and 4 set control points (401-404). All recovered and set control points were occupied for a minimum of 2x20 minute sessions with an antennae height change in between.

The monitoring well surveys were performed using differential leveling procedures with a digital level and Real Time Kinematic (RTK) techniques with Trimble R12i GPS receivers. RTK check shots were performed at the beginning and end of each survey session, at a minimum, by re-shooting previously surveyed control points with different on-the-fly initializations to rule out systematic errors. All check shots were under 0.10' magnitude in XYZ.

Static Processing

Lounsbury & Associates used Trimble Business Center v.5.70 software to process all static baselines and perform the GPS network adjustment in this report, using published control values of PACS FAI A and SACS FAI B fixed. If necessary, individual baselines were viewed by timeline and manually cleaned to remove patchy satellite observable data or sections of excessive cycle slips on all recorded GNSS frequencies.

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Processing - Levelling

Differential level loops were run between horizontal control and all monitoring wells to measure top of PVC and adjacent ground elevations. These loops were very tight, with minimal misclosures noted in each loop. A least-squares adjustment was performed to adjust each loop.

Processing - Topography

RTK survey data processing was performed using Trimble Business Center v. 5.70 software to obtain horizontal location of monitoring wells. A large number of check shots were performed to ensure good on-the-fly RTK initialization and to rule out systematic errors. All topographic survey check shots were under 0.10' magnitude in XYZ. ASCII points were generated after reviewing the checkshot report and RTK system statistics reports. These reports are referenced in Section 5 of this report document.

Problems Encountered

The four temporary wells that were requested to be surveyed at the MarkAir Hangar site were found unusuable and likely destroyed in the field by Jacobs Engineering Group Inc.

3. Horizontal Control

3.1 Static Control Network Plot



3.2 Control Survey Data Table

Point ID	Description	State Plane Zone 3 Northing (ft)	State Plane Zone 3 Easting (ft)	Elevation (ft)
551 (FAI A)	Found Brass Cap PACS	3956198.298	1351803.084	431.40
552 (FAI B)	Found Brass Cap SACS	3959156.885	1352843.210	432.22
401	Set 1" mag nail	3959307.482	1350883.342	434.50
402	Set 1" mag nail	3959058.577	1350814.607	435.62
403	Set 1" mag nail	3955468.596	1347116.785	431.84
404	Set 1" mag nail	3955281.777	1346965.012	431.67

4. Survey Data Tables

Field codes used during surveys include:

Code	Description
MW	Monitoring Well
GS	Ground Shot
ITC	Top of Concrete
ITA	Top of Asphalt

4.1 Brooks Fuel Site

Description	State Plane Zone 3 Northing (ft)	State Plane Zone 3 Easting (ft)	Elevation (ft)	Top of PVC Elevation (ft)
MW-2	3959156.142	1351152.631	-	435.61
ITC @ MW-2	3959156.454	1351152.916	435.84	-
MW-5	3959205.899	1351169.487	-	435.41
ITC @ MW-5	3959206.270	1351169.216	435.63	-
MW-8	3959250.422	1351143.662	-	435.82
ITC @ MW-8	3959250.816	1351143.824	436.05	-

4.2 Mark Air Hangar

	State Plane Zone 3	State Plane Zone 3		Top of PVC
Description	Northing (ft)	Easting (ft)	Elevation (ft)	Elevation (ft)
MW-3B	3955245.276	1346951.381	-	430.77
ITC @ MW-3B	3955244.690	1346951.170	431.47	-
MW-4B	3955338.945	1347194.969	-	434.36
GS @ MW-4	3955338.464	1347194.646	433.52	-
MW-6B	3955468.403	1347322.578	-	431.31
GS @ MW-6B	3955468.859	1347322.011	431.87	-
MW-7B	3955033.867	1347353.361	-	434.58
ITA @ MW-7B	3955033.262	1347353.044	435.10	-
MW-8B	3955189.757	1347130.039	-	434.61
GS @ MW-8B	3955190.225	1347130.364	435.12	-
MW-12	3955323.608	1347392.898	-	435.63
ITA @ MW-12	3955323.481	1347392.545	436.08	-
MW-13	3955255.888	1347546.274	-	434.75
ITC @ MW-13	3955255.435	1347545.900	435.13	-

5.Topography

5.1 RTK Quality Summary Statistics

The following summary statistics were evaluated on the horizontal and vertical RMS of each RTK observation to ensure sufficient data integrity of the processed points. For the full RTK quality report detailing information for each vector, see section 5.2 below.

	H. Precision (usft)	V. Precision (usft)
Average	0.03	0.04
Standard Deviation	0.01	0.01
Minimum	0.01	0.02
Maximum	0.06	0.07
# of Observations	49	

5.2 RTK Quality Full Report

Vector ID	From Point ID	To Point ID	Solution Type	Start Time	H Precision (US survey foot)	V Precision (US survey foot)	Ellip. Dist. (US survey foot)
<u>V1</u>	<u>551</u>	<u>5001</u>	RTK	11/8/2022 13:49	0.018	0.032	3136.132
<u>V2</u>	<u>551</u>	<u>404</u>	RTK	11/8/2022 14:30	0.016	0.026	4924.096
<u>V3</u>	<u>551</u>	<u>404</u>	RTK	11/8/2022 14:32	0.014	0.024	4924.103
<u>V4</u>	<u>551</u>	<u>403</u>	RTK	11/8/2022 14:40	0.017	0.029	4742.764
<u>V5</u>	<u>551</u>	<u>403</u>	RTK	11/8/2022 14:42	0.027	0.047	4742.748
<u>V6</u>	<u>551</u>	<u>403</u>	RTK	11/8/2022 14:44	0.030	0.051	4742.766
<u>V7</u>	<u>551</u>	<u>402</u>	RTK	11/8/2022 14:54	0.015	0.027	3026.315
<u>V8</u>	<u>551</u>	<u>402</u>	RTK	11/8/2022 14:59	0.013	0.024	3026.286
<u>V9</u>	<u>551</u>	<u>401</u>	RTK	11/8/2022 15:06	0.015	0.026	3242.437
<u>V10</u>	<u>551</u>	<u>401</u>	RTK	11/8/2022 15:08	0.012	0.019	3242.411
<u>V11</u>	<u>551</u>	<u>5002</u>	RTK	11/8/2022 16:46	0.022	0.040	3136.150
<u>V12</u>	<u>551</u>	<u>5003</u>	RTK	11/9/2022 9:19	0.021	0.031	3136.089
<u>V13</u>	<u>551</u>	<u>5003</u>	RTK	11/9/2022 9:20	0.018	0.034	3136.112
<u>V14</u>	<u>551</u>	<u>5004</u>	RTK	11/9/2022 10:12	0.023	0.024	3026.268
<u>V15</u>	<u>551</u>	<u>5005</u>	RTK	11/9/2022 10:17	0.018	0.026	3242.387
<u>V16</u>	<u>551</u>	<u>5006</u>	RTK	11/9/2022 10:32	0.024	0.036	3028.535
<u>V17</u>	<u>551</u>	5007	RTK	11/9/2022 10:33	0.024	0.036	3028.778
<u>V18</u>	<u>551</u>	<u>5008</u>	RTK	11/9/2022 10:34	0.026	0.038	3028.627
<u>V19</u>	<u>551</u>	<u>5009</u>	RTK	11/9/2022 10:37	0.028	0.039	3073.630
<u>V20</u>	<u>551</u>	<u>5010</u>	RTK	11/9/2022 10:37	0.027	0.039	3074.049
<u>V21</u>	<u>551</u>	<u>5011</u>	RTK	11/9/2022 10:40	0.030	0.045	3073.744
<u>V22</u>	<u>551</u>	<u>5012</u>	RTK	11/9/2022 10:43	0.027	0.039	3122.562
<u>V23</u>	<u>551</u>	5013	RTK	11/9/2022 10:43	0.027	0.039	3122.914
<u>V24</u>	<u>551</u>	<u>5014</u>	RTK	11/9/2022 10:43	0.027	0.039	3122.566
<u>V25</u>	<u>551</u>	<u>5015</u>	RTK	11/9/2022 11:03	0.022	0.028	4742.773
<u>V26</u>	<u>551</u>	<u>5015</u>	RTK	11/9/2022 11:03	0.023	0.028	4742.774
<u>V27</u>	<u>551</u>	<u>5015</u>	RTK	11/9/2022 11:04	0.023	0.036	4742.767
<u>V28</u>	<u>551</u>	<u>5016</u>	RTK	11/9/2022 11:06	0.024	0.038	4924.099
<u>V29</u>	<u>551</u>	<u>5017</u>	RTK	11/9/2022 11:14	0.026	0.042	4359.899
<u>V30</u>	<u>551</u>	<u>5018</u>	RTK	11/9/2022 11:15	0.026	0.030	4360.362
<u>V31</u>	<u>551</u>	<u>5019</u>	RTK	11/9/2022 11:21	0.023	0.030	4359.776
<u>V32</u>	<u>551</u>	<u>5020</u>	RTK	11/9/2022 11:31	0.053	0.070	4599.575
<u>V33</u>	<u>551</u>	<u>5021</u>	RTK	11/9/2022 11:32	0.053	0.062	4600.035
<u>V34</u>	<u>551</u>	<u>5022</u>	RTK	11/9/2022 11:37	0.056	0.074	4599.537
<u>V35</u>	<u>551</u>	<u>5023</u>	RTK	11/9/2022 11:45	0.028	0.036	4944.436
<u>V36</u>	<u>551</u>	<u>5024</u>	RTK	11/9/2022 11:46	0.029	0.037	4944.757

Continued next page

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<u>V37</u>	<u>551</u>	<u>5025</u>	RTK	11/9/2022 11:46	0.030	0.041	4944.346
<u>V38</u>	<u>551</u>	<u>5026</u>	RTK	11/9/2022 11:58	0.026	0.033	4780.656
<u>V39</u>	<u>551</u>	<u>5027</u>	RTK	11/9/2022 11:59	0.027	0.035	4780.240
<u>V40</u>	<u>551</u>	<u>5028</u>	RTK	11/9/2022 11:59	0.027	0.035	4780.581
<u>V41</u>	<u>551</u>	<u>5029</u>	RTK	11/9/2022 12:04	0.029	0.033	4687.577
<u>V42</u>	<u>551</u>	<u>5030</u>	RTK	11/9/2022 12:04	0.035	0.037	4687.983
<u>V43</u>	<u>551</u>	<u>5031</u>	RTK	11/9/2022 12:05	0.029	0.035	4687.531
<u>V44</u>	<u>551</u>	<u>5032</u>	RTK	11/9/2022 12:10	0.045	0.049	4539.586
<u>V45</u>	<u>551</u>	<u>5033</u>	RTK	11/9/2022 12:10	0.036	0.037	4540.071
<u>V46</u>	<u>551</u>	<u>5034</u>	RTK	11/9/2022 12:12	0.038	0.042	4539.506
<u>V47</u>	<u>551</u>	<u>5035</u>	RTK	11/9/2022 12:28	0.031	0.032	4496.107
<u>V48</u>	<u>551</u>	<u>5036</u>	RTK	11/9/2022 12:29	0.029	0.033	4496.477
<u>V49</u>	<u>551</u>	<u>5037</u>	RTK	11/9/2022 12:29	0.028	0.034	4495.860

5.3 RTK Checkshots

From Point	To Point	Δ Horizontal	North Azimuth	Δ Northing	Δ Easting	Δ Vertical
401	5005	0.024 ft	65°27'31.9"	0.010 ft	0.021 ft	-0.025 ft
402	5004	0.013 ft	181°06'00.3"	-0.013 ft	0.000 ft	-0.042 ft
403	5015	0.044 ft	143°05'38.8"	-0.035 ft	0.026 ft	-0.014 ft
404	5016	0.046 ft	113°10'44.5"	-0.018 ft	0.042 ft	-0.050 ft
552 (FAI B)	5001	0.050 ft	310°32'50.1"	0.033 ft	-0.038 ft	-0.002 ft
552 (FAI B)	5002	0.065 ft	323°41'25.9"	0.053 ft	-0.039 ft	0.003 ft
552 (FAI B)	5003	0.015 ft	283°56'39.0"	0.004 ft	-0.014 ft	-0.011 ft

APPENDIX G Risk Calculation

Site-specific Risk Models Groundwater Inputs

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Variable	Value
LT (lifetime - resident) year	70
K (volatilization factor of Andelman) L/m ³	0.5
l _{sc} (apparent thickness of stratum corneum) cm	0.001
ED _{resw} (exposure duration - resident) year	26
ED _{reswc} (exposure duration - child) year	6
ED _{reswa} (exposure duration - adult) year	20
ED ₀₋₂ (mutagenic exposure duration first phase) year	2
ED ₂₋₆ (mutagenic exposure duration second phase) year	4
ED ₆₋₁₆ (mutagenic exposure duration third phase) year	10
ED ₁₆₋₂₆ (mutagenic exposure duration fourth phase) year	10
EF _{resw} (exposure frequency) day/year	350
EF _{reswc} (exposure frequency - child) day/year	350
EF _{reswa} (exposure frequency - adult) day/year	350
EF ₀₋₂ (mutagenic exposure frequency first phase) day/year	350
EF ₂₋₆ (mutagenic exposure frequency second phase) day/year	350
EF ₆₋₁₆ (mutagenic exposure frequency third phase) day/year	350
EF ₁₆₋₂₆ (mutagenic exposure frequency fourth phase) day/year	350
ET _{resw-adi} (age-adjusted exposure time) hour/event	0.67077
ET _{resw-madi} (mutagenic age-adjusted exposure time) hour/event	0.67077
ET _{resw} (exposure time) hour/day	24
ET _{reswc} (dermal exposure time - child) hour/event	0.54
ET _{reswa} (dermal exposure time - adult) hour/event	0.71
ET _{reswc} (inhalation exposure time - child) hour/day	24
ET _{reswa} (inhalation exposure time - adult) hour/day	24
ET ₀₋₂ (mutagenic inhalation exposure time first phase) hour/day	24
ET ₂₋₆ (mutagenic inhalation exposure time second phase) hour/day	24
ET ₆₋₁₆ (mutagenic inhalation exposure time third phase) hour/day	24
ET ₁₆₋₂₆ (mutagenic inhalation exposure time fourth phase) hour/day	24
ET ₀₋₂ (mutagenic dermal exposure time first phase) hour/event	0.54
ET ₂₋₆ (mutagenic dermal exposure time second phase) hour/event	0.54
ET ₆₋₁₆ (mutagenic dermal exposure time third phase) hour/event	0.71
ET ₁₆₋₂₆ (mutagenic dermal exposure time fourth phase) hour/event	0.71
BW _{reswa} (body weight - adult) kg	80
BW _{reswc} (body weight - child) kg	15
BW ₀₋₂ (mutagenic body weight) kg	15
BW ₂₋₆ (mutagenic body weight) kg	15
BW ₆₋₁₆ (mutagenic body weight) kg	80
BW ₁₆₋₂₆ (mutagenic body weight) kg	80
IFW _{res-adj} (adjusted intake factor) L/kg	327.95
IFWM _{res-adj} (mutagenic adjusted intake factor) L/kg	
IRW _{reswc} (water intake rate - child) L/day	1019.9
IRW _{reswa} (water intake rate - child) L/day	0.78
	2.5
IRW ₀₋₂ (mutagenic water intake rate) L/day	0.78
IRW ₂₋₆ (mutagenic water intake rate) L/day	0.78
IRW ₆₋₁₆ (mutagenic water intake rate) L/day	2.5
IRW ₁₆₋₂₆ (mutagenic water intake rate) L/day	2.5
EV _{reswa} (events - adult) per day	1
EV _{reswc} (events - child) per day	1

Site-specific Risk Models Groundwater Inputs

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Variable	Value
EV ₀₋₂ (mutagenic events) per day	1
EV ₂₋₆ (mutagenic events) per day	1
EV ₆₋₁₆ (mutagenic events) per day	1
EV ₁₆₋₂₆ (mutagenic events) per day	1
DFW _{res-adj} (age-adjusted dermal factor) cm ² -event/kg	2610650
DFWM _{res-adj} (mutagenic age-adjusted dermal factor) cm ² -event/kg	8191633
SA _{reswc} (skin surface area - child) cm ²	6365
SA _{reswa} (skin surface area - adult) cm ²	19652
SA ₀₋₂ (mutagenic skin surface area) cm ²	6365
SA ₂₋₆ (mutagenic skin surface area) cm ²	6365
SA ₆₋₁₆ (mutagenic skin surface area) cm ²	19652
SA ₁₆₋₂₆ (mutagenic skin surface area) cm ²	19652

Output generated 15FEB2023:15:34:27

Site-specific Risk Models

Groundwater Cumulative Risk

Groundwater

ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL), ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat, sol=SL exceeds Solubility I=IRIS; D=Drinking Water/Health Advisory Goals; P=PPRTV; A=ATSDR; C=Cal EPA; X=APPENDIX PPRTV SCREEN; H=HEAST; S=SURROGATE; W=RPF

*The sum of PFOS and PFOA concentrations should not exceed 0.07 ug/L.

			Chronic RfD	Chronic RfD	Chronic RfC	Chronic RfC	Ingestion SF	SFO	Inhalation Unit Risk	IUR			log K _{ow} (unitles		Concentration	Ingestion Noncarcinogenic CDI	Inhalation Noncarcinogenic (Volatiles) CDI
Chemical	Mutagen?	Volatile?	(mg/kg-day)	Ref	(mg/m³)	Ref	(mg/kg-day) ⁻¹	Ref	(µg/m³) ⁻¹	Ref	GIABS	MW	s)	In EPD?	(µg/L)	Child	Child
Chloroform	No	Yes	1.00E-02	I	9.77E-02	Α	3.10E-02	С	2.30E-05	I	1.00E+00	1.19E+02	1.97E+00	Yes	1.97E+01	9.82E-04	9.45E-03
Dichloroethane, 1,1-	No	Yes	2.00E-01	Р	-		5.70E-03	С	1.60E-06	С	1.00E+00	9.90E+01	1.79E+00	Yes	3.27E+00	1.63E-04	-
Ethylbenzene	No	Yes	1.00E-01	I	1.00E+00	I	1.10E-02	С	2.50E-06	С	1.00E+00	1.06E+02	3.15E+00	Yes	1.01E+01	5.04E-04	4.84E-03
Lead and Compounds Naphthalene	No No	No Yes	- 2.00E-02		- 3.00E-03		<u>-</u>		- 3.40E-05	С	1.00E+00 1.00E+00		- 3.30E+00	Yes Yes	1.34E+01 5.07E+01	- 2.53E-03	
Trichloroethylene	Yes	Yes	5.00E-04	i	2.00E-03	i	4.60E-02	1	4.10E-06		1.00E+00			Yes	3.35E-01	1.67E-05	1.61E-04
Trimethylbenzene, 1,2,4-	No	Yes	1.00E-02	ı	6.00E-02	ı	-	•	-		1.00E+00	1.20E+02	3.63E+00	Yes	9.51E+01	4.74E-03	4.56E-02
Trimethylbenzene, 1,3,5-	No	Yes	1.00E-02	I	6.00E-02	I	-				1.00E+00	1.20E+02	3.42E+00	Yes	2.91E+01	1.45E-03	1.40E-02
Xylenes	No	Yes	2.00E-01	I	1.00E-01	I	-		-		1.00E+00	1.06E+02	3.16E+00	Yes	1.76E+02	8.78E-03	8.44E-02
*Total Risk/HI			-		-		-		-		-	-	-		-	-	-

Output generated 15FEB2023:15:34:27

Dermal Noncarcinogenic CDI Child	Ingestion Carcinogenic CDI	Inhalation (Volatiles) Carcinogenic CDI	Dermal Carcinogenic CDI	Ingestion HI Child	Inhalation (Volatiles) HI Child	Dermal HI Child	Noncarcinogenic HI Child	Ingestion Risk	Inhalation (Volatiles) Risk	Dermal Risk	Carcinogenic Risk
7.79E-05	2.53E-04	3.51E+00	2.18E-05	9.82E-02	9.67E-02	7.79E-03	2.03E-01	7.84E-06	8.07E-05	6.75E-07	8.92E-05
1.12E-05	4.20E-05	5.82E-01	3.13E-06	8.15E-04	-	5.60E-05	8.71E-04	2.39E-07	9.32E-07	1.79E-08	1.19E-06
2.65E-04	1.30E-04	1.80E+00	7.41E-05	5.04E-03	4.84E-03	2.65E-03	1.25E-02	1.43E-06	4.50E-06	8.15E-07	6.74E-06
-	-	-	-	-	-	-	-	-	-	-	
1.45E-03	6.51E-04	9.03E+00	4.05E-04	1.26E-01	8.10E+00	7.23E-02	8.30E+00	-	3.07E-04	-	3.07E-04
2.43E-06	6.16E-06	8.54E-02	9.78E-07	3.34E-02	8.03E-02	4.86E-03	1.19E-01	2.83E-07	3.50E-07	4.50E-08	6.78E-07
4.74E-03	-	-	-	4.74E-01	7.60E-01	4.74E-01	1.71E+00	-	-	-	-
1.05E-03	-	-	-	1.45E-01	2.33E-01	1.05E-01	4.83E-01	-	-	_	-
4.68E-03	-	-	-	4.39E-02	8.44E-01	2.34E-02	9.11E-01	-	-	-	-
-	-	-	-	9.27E-01	1.01E+01	6.90E-01	1.17E+01	9.79E-06	3.93E-04	1.55E-06	4.05E-04

APPENDIX H Investigation-derived Waste

MAH Site COCs in Soil and Groundwater

Analyte	Method	ADEC GCL ¹ (μg/L)	ADEC SCL ² (mg/kg)
GRO	AK101	2,200	300
DRO	AK102	1,500	250
RRO	AK103	1,100	11000
Benzene	SW8260D	4.6	0.52
Ethylbenzene	SW8260D	15	0.13
EDB	SW8260D-SIM	0.075	0.00024
TCE	SW8260D	2.8	0.011
Total Xylenes	SW8260D	190	1.5
1-Methylnaphthalene	SW8270D-SIM	11	0.41
2-Methylnaphthalene	SW8270D-SIM	36	1.3
Naphthalene	SW8270D-SIM	1.7	0.038
Lead	SW8260B	15	400

Notes:

1 18 AAC 75. Table C human health GCLs (ADEC 2021).

2 18 AAC 75. For GRO and DRO, cleanup levels obtained from Table B2, Method Two SCLs, migration to groundwater. For all others, cleanup levels obtained from Table B1, Method Two SCLs, migration to groundwater (ADEC 2021). For definitions, refer to the Acronyms and Abbreviations section.

2022 MarkAir Warehouse Groundwater Monitoring – Fairbanks International Airport, Fairbanks, Alaska Table F.5 Wastewater Sample Results

					Location ID:	DR01	DR02	DR03	DR04	TB03W
					Sample ID:	22MAH-DR01-WW	22MAH-DR02-WW	22MAH-DR03-WW	22MAH-DR04-WW	22MAH-TB03W
					SDG:	1226337	1226337	1226337	1226337	1226337
				L	ab Sample ID:	1226337001	1226337002	1226337003	1226337004	1226337005
				Samp	ole Date/Time:	10/13/2022 10:40:00	10/13/2022 11:50:00	10/13/2022 12:30:00	10/13/2022 13:00:00	10/13/2022 08:00:00
				•	Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental
					QA/QC:	Primary Sample	Primary Sample	Primary Sample	Primary Sample	Trip Blank
CAS Number	Method	Analyte	Units	0011		,			,	
CAS Nullibel			0.11100	GCL ¹	RCRA TCLP ²	ND to ori	ND to oct	ND to ora	ND to ori	ND to off
-	AK101	GRO	mg/L	2.2	-	ND [0.05]	ND [0.05]	ND [0.05]	ND [0.05]	ND [0.05]
-	AK102	DRO RRO	mg/L	1.5	-	ND [0.306]	0.364 [0.319] J	ND [0.326]	ND [0.326]	-
- 7439-92-1	AK103 6020B	Lead	mg/L	1.1 0.015	-	0.216 [0.255] J	0.317 [0.266] J 0.000495 [0.0005] J.B	ND [0.272] 0.000991 [0.0005] J.B	ND [0.272] 0.000487 [0.0005] J.B	-
630-20-6	8260D		mg/L ma/L	0.015	5	0.000555 [0.0005] J,B			0.000487 [0.0005] J,B ND [0.00025]	- ND [0.00025]
71-55-6	8260D	1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane	mg/L	8	-	ND [0.00025] ND [0.0005]	ND [0.00025] ND [0.0005]	ND [0.00025] ND [0.0005]	ND [0.00025] ND [0.0005]	ND [0.00025]
79-34-5	8260D	, ,	,		-				ND [0.0005] ND [0.00025]	
79-34-5 79-00-5	8260D 8260D	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	mg/L	0.00076 0.00041		ND [0.00025]	ND [0.00025] ND [0.00021	ND [0.00025]		ND [0.00025]
79-00-5 75-34-3	8260D 8260D	1,1,2-1 richloroethane	mg/L mg/L	0.00041	-	ND [0.0002] ND [0.0005]	ND [0.0002] ND [0.0005]	ND [0.0002] ND [0.0005]	ND [0.0002] ND [0.0005]	ND [0.0002] ND [0.0005]
75-34-3	8260D	1,1-Dichloroethane	mg/L	0.028	0.7	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]
563-58-6	8260D	1,1-Dichloropropene	mg/L	0.20	-	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]
96-18-4	8260D	1,2,3-TCP	mg/L	0.0000075	-	ND [0.0005] ND [0.0005] E	ND [0.0005] ND [0.0005] E	ND [0.0005] ND [0.0005] E	ND [0.0005] ND [0.0005] E	ND [0.0005] E
87-61-6	8260D	1,2,3-Trichlorobenzene	mg/L	0.0000073	-	ND [0.0005] E	ND [0.0005] E ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005] E
95-63-6	8260D	1.2.4-TMB	mg/L	0.056	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
120-82-1	8260D	1.2.4-Trichlorobenzene	mg/L	0.004	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
96-12-8	8260D	1,2-Dibromo-3-chloropropane	mg/L	-	-	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
95-50-1	8260D	1.2-Dishorno-o-chioroproparie	mg/L	0.3	-	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
107-06-2	8260D	1,2-Dichloroethane	ma/L	0.0017	0.5	ND [0.0003]	ND [0.0003]	ND [0.0003]	ND [0.0003]	ND [0.0003]
78-87-5	8260D	1,2-Dichloropropane	ma/L	0.0017	-	ND [0.00023]	ND [0.00023]	ND [0.00023]	ND [0.00023]	ND [0.00023]
108-67-8	8260D	1.3.5-TMB	mg/L	0.0062	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
541-73-1	8260D	1,3-Dichlorobenzene	mg/L	0.3	_	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
142-28-9	8260D	1,3-Dichloropropane	mg/L	-	_	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
106-46-7	8260D	1,4-Dichlorobenzene	mg/L	0.0048	7.5	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
594-20-7	8260D	2,2-Dichloropropane	mg/L	-	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
95-49-8	8260D	2-Chlorotoluene	mg/L	_	_	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
591-78-6	8260D	2-Hexanone	mg/L	0.038	_	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
106-43-4	8260D	4-Chlorotoluene	mg/L	-	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
108-10-1	8260D	4-Methyl-2-Pentanone	mg/L	6.3	-	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
71-43-2	8260D	Benzene	mg/L	0.0046	0.5	ND [0.0002]	ND [0.0002]	ND [0.0002]	ND [0.0002]	ND [0.0002]
108-86-1	8260D	Bromobenzene	mg/L	0.062	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
74-97-5	8260D	Bromochloromethane	mg/L	-	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
75-27-4	8260D	Bromodichloromethane	mg/L	0.0013	-	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
75-25-2	8260D	Bromoform	mg/L	0.033	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
74-83-9	8260D	Bromomethane	mg/L	0.0075	-	ND [0.003]	ND [0.003]	ND [0.003]	ND [0.003]	ND [0.003]
75-15-0	8260D	Carbon Disulfide	mg/L	0.81	-	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]
56-23-5	8260D	Carbon Tetrachloride	mg/L	0.0046	0.5	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
108-90-7	8260D	Chlorobenzene	mg/L	0.078	100	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
75-00-3	8260D	Chloroethane	mg/L	21	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
67-66-3	8260D	Chloroform	mg/L	0.0022	6	0.00336 [0.0005]	0.00448 [0.0005]	0.00305 [0.0005]	0.00797 [0.0005]	ND [0.0005]
74-87-3	8260D	Chloromethane	mg/L	0.19	-	ND [0.0005]	ND [0.0005]	0.00035 [0.0005] J	0.00038 [0.0005] J	ND [0.0005]
542-75-6	8260D	cis-1,3-Dichloropropene	mg/L	0.0047	-	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
156-59-2	8260D	cis-DCE	mg/L	0.036	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
98-82-8	8260D	Cumene	mg/L	0.45	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
124-48-1	8260D	Dibromochloromethane	mg/L	0.0087	-	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]	ND [0.00025]
74-95-3	8260D	Dibromomethane	mg/L	0.0083	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
106-93-4	8260D	EDB	mg/L	0.000075	-	ND [0.0000375]	ND [0.0000375]	ND [0.0000375]	ND [0.0000375]	ND [0.0000375]
100-41-4	8260D	Ethylbenzene	mg/L	0.015	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]
75-69-4	8260D	Freon-11	mg/L	5.2	-	ND [0.0005]	ND [0.0005]	0.00046 [0.0005] J	ND [0.0005]	ND [0.0005]
-	8260D	Freon-113	mg/L	-	-	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]

2022 MarkAir Warehouse Groundwater Monitoring – Fairbanks International Airport, Fairbanks, Alaska Table F.5 Wastewater Sample Results

T	Location ID: DR04 DR02 DR04 TD02W												
					Location ID:	DR01	DR02	DR03	DR04	TB03W			
					Sample ID:	22MAH-DR01-WW	22MAH-DR02-WW	22MAH-DR03-WW	22MAH-DR04-WW	22MAH-TB03W			
					SDG:	1226337	1226337	1226337	1226337	1226337			
					.ab Sample ID:	1226337001	1226337002	1226337003	1226337004	1226337005			
				Sam	ple Date/Time:	10/13/2022 10:40:00	10/13/2022 11:50:00	10/13/2022 12:30:00	10/13/2022 13:00:00	10/13/2022 08:00:00			
					Laboratory:	SGS Environmental							
					QA/QC:	Primary Sample	Primary Sample	Primary Sample	Primary Sample	Trip Blank			
CAS Number	Method	Analyte	Units	GCL ¹	RCRA TCLP ²								
75-71-8	8260D	Freon-12	mg/L	0.2	-	ND [0.0005]							
87-68-3	8260D	Hexachlorobutadiene	mg/L	0.0014	0.5	ND [0.0005]							
-	8260D	m,p-Xylene	mg/L	-	-	ND [0.001]							
78-93-3	8260D	MEK	mg/L	5.6	200	ND [0.005]							
75-09-2	8260D	Methylene Chloride	mg/L	0.11	-	ND [0.005]	ND [0.005]	ND [0.005]	ND [0.005]	0.0468 [0.005]			
1634-04-4	8260D	MTBE	mg/L	0.14	-	ND [0.005]							
91-20-3	8260D	Naphthalene	mg/L	0.0017	-	ND [0.0005]							
104-51-8	8260D	n-Butylbenzene	mg/L	1	-	ND [0.0005]							
-	8260D	o-Xylene	mg/L	-	-	ND [0.0005]							
127-18-4	8260D	PCE	mg/L	0.041	0.7	ND [0.0005]							
99-87-6	8260D	p-Cymene	mg/L		-	ND [0.0005]							
103-65-1	8260D	Propylbenzene	mg/L	0.66	-	ND [0.0005]							
135-98-8	8260D	sec-Butylbenzene	mg/L	2	-	ND [0.0005]							
100-42-5	8260D	Styrene	mg/L	1.2	-	ND [0.0005]							
79-01-6	8260D	TCE	mg/L	0.0028	0.5	ND [0.0005]							
98-06-6	8260D	tert-Butylbenzene	mg/L	0.69	-	ND [0.0005]							
108-88-3	8260D 8260D	Toluene	mg/L	1.1 0.0047	-	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005]	ND [0.0005] ND [0.0005]			
542-75-6	8260D 8260D	trans-1,3-Dichloropropene trans-DCE	mg/L		-	ND [0.0005] ND [0.0005]	ND [0.0005] ND [0.0005]	ND [0.0005]	ND [0.0005] ND [0.0005]				
156-60-5 75-01-4	8260D 8260D	trans-DCE VC	mg/L	0.36 0.00019	0.2	ND [0.0005] ND [0.00075]	ND [0.0005] ND [0.00075]	ND [0.0005] ND [0.00075]	ND [0.0005] ND [0.00075]	ND [0.0005] ND [0.000075]			
108-05-4	8260D	Vinvl Acetate	mg/L ma/L	0.00019	-	ND [0.00075]	ND [0.00075]	ND [0.00075]	ND [0.00075] ND [0.005]	ND [0.00075]			
1330-20-7	8260D	Xylenes	mg/L	0.41	-	ND [0.005]	ND [0.005] ND [0.0015]	ND [0.005] ND [0.0015]	ND [0.005] ND [0.0015]	ND [0.005] ND [0.0015]			
106-93-4	8260D-SIM	EDB	mg/L	0.000075	-	ND [0.000025]							
90-12-0	8270DSIM	1-Methylnaphthalene	mg/L	0.000073	-	ND [0.000025]	ND [0.000025]	ND [0.000025]	ND [0.000023]	-			
91-57-6	8270DSIM	2-Methylnaphthalene	mg/L	0.036	-	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	0.0000169 [0.0000272] J	-			
83-32-9	8270DSIM	Acenaphthene	mg/L	0.53	-	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	_			
208-96-8	8270DSIM	Acenaphthylene	mg/L	0.26	-	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	-			
120-12-7	8270DSIM	Anthracene	mg/L	0.043	-	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	_			
56-55-3	8270DSIM	Benzo(a)anthracene	mg/L	0.0003	-	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	-			
50-32-8	8270DSIM	Benzo(a)pyrene	mg/L	0.00025	-	ND [0.00001]	ND [0.0000102]	ND [0.0000107]	ND [0.0000109]	-			
205-99-2	8270DSIM	Benzo(b)fluoranthene	mg/L	0.0025	-	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	-			
191-24-2	8270DSIM	Benzo(g,h,i)perylene	mg/L	0.00026	-	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	-			
207-08-9	8270DSIM	Benzo(k)fluoranthene	mg/L	0.0008	-	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	-			
218-01-9	8270DSIM	Chrysene	mg/L	0.002	-	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	-			
53-70-3	8270DSIM	Dibenzo(a,h)anthracene	mg/L	0.00025	-	ND [0.00001]	ND [0.0000102]	ND [0.0000107]	ND [0.0000109]	-			
206-44-0	8270DSIM	Fluoranthene	mg/L	0.26	-	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	-			
86-73-7	8270DSIM	Fluorene	mg/L	0.29	-	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	-			
193-39-5	8270DSIM	Indeno(1,2,3-cd)pyrene	mg/L	0.00019	-	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	-			
91-20-3	8270DSIM	Naphthalene	mg/L	0.0017	-	ND [0.00005]	ND [0.000051]	ND [0.000053]	ND [0.0000545]	-			
85-01-8	8270DSIM	Phenanthrene	mg/L	0.17	-	ND [0.00005]	ND [0.000051]	ND [0.000053]	ND [0.0000545]	-			
129-00-0	8270DSIM	Pyrene	mg/L	0.12	-	ND [0.000025]	ND [0.0000255]	ND [0.0000266]	ND [0.0000272]	-			
757124-72-4	EPA 537M BY ID	4:2 Fluorotelomer sulfonate	mg/L	-	-	ND [0.000011]	ND [0.00001]	ND [0.000013]	ND [0.000056]	-			
27619-97-2	EPA 537M BY ID	6:2 Fluorotelomer sulfonate	mg/L	-	-	0.0000061 [0.000011] J	ND [0.00001]	ND [0.000013]	ND [0.000056]	-			
39108-34-4	EPA 537M BY ID	8:2 Fluorotelomer sulfonate	mg/L	-	-	ND [0.000011]	ND [0.00001]	ND [0.000013]	ND [0.000056]	-			
2991-50-6	EPA 537M BY ID	EtFOSAA	mg/L	-	-	ND [0.000056]	ND [0.00001]	ND [0.000013]	ND [0.000056]	-			
2355-31-9	EPA 537M BY ID	MeFOSAA	mg/L	-	-	ND [0.000056]	ND [0.00001]	ND [0.000013]	ND [0.000056]	-			
335-77-3	EPA 537M BY ID	Perfluorodecanesulfonic acid	mg/L	-	-	ND [0.000028]	ND [0.000005]	ND [0.0000067]	ND [0.000028]	-			
68259-12-1	EPA 537M BY ID	Perfluorononanesulfonic acid	mg/L	-	-	ND [0.0000056]	ND [0.000005]	ND [0.0000067]	ND [0.000028]	-			
2706-91-4	EPA 537M BY ID	Perfluoropentanesulfonic acid	mg/L	-	-	ND [0.0000056]	ND [0.000005]	0.000004 [0.0000067] J	ND [0.000028]	-			

2022 MarkAir Warehouse Groundwater Monitoring - Fairbanks International Airport, Fairbanks, Alaska **Table F.5 Wastewater Sample Results**

Territoria de la constanta de							-			
					Location ID:	DR01	DR02	DR03	DR04	TB03W
					Sample ID:	22MAH-DR01-WW	22MAH-DR02-WW	22MAH-DR03-WW	22MAH-DR04-WW	22MAH-TB03W
					SDG:	1226337	1226337	1226337	1226337	1226337
				L	ab Sample ID:	1226337001	1226337002	1226337003	1226337004	1226337005
				Sam	ple Date/Time:	10/13/2022 10:40:00	10/13/2022 11:50:00	10/13/2022 12:30:00	10/13/2022 13:00:00	10/13/2022 08:00:00
					Laboratory:	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental	SGS Environmental
					QA/QC:	Primary Sample	Primary Sample	Primary Sample	Primary Sample	Trip Blank
CAS Number	Method	Analyte	Units	GCL ¹	RCRA TCLP ²					·
2706-90-3	EPA 537M BY ID	Perfluoropentanoic acid	mg/L	-	-	0.0000108 [0.0000056] J	0.0000095 [0.000005] J	0.0000071 [0.0000067] J	ND [0.000028]	-
376-06-7	EPA 537M BY ID	Perfluorotetradecanoic acid	mg/L	-	-	ND [0.0000056]	ND [0.000005]	ND [0.0000067]	ND [0.000028]	-
72629-94-8	EPA 537M BY ID	Perfluorotridecanoic acid	mg/L	-	-	ND [0.000028]	ND [0.000025]	ND [0.0000067]	ND [0.000028]	-
375-22-4	EPA 537M BY ID	PFBA	mg/L	-	-	0.0000276 [0.000011]	0.0000078 [0.00001] J	0.000011 [0.000013] J	ND [0.000056]	-
375-73-5	EPA 537M BY ID	PFBS	mg/L	-	-	ND [0.0000056]	0.0000197 [0.000005]	0.0000105 [0.0000067] J	ND [0.000028]	-
335-76-2	EPA 537M BY ID	PFDA	mg/L	-	-	ND [0.000028]	ND [0.000005]	ND [0.0000067]	ND [0.000028]	-
307-55-1	EPA 537M BY ID	PFDoA	mg/L	-	-	ND [0.000028]	ND [0.000025]	ND [0.0000067]	ND [0.000028]	-
375-85-9	EPA 537M BY ID	PFHpA	mg/L	-	-	0.0000065 [0.0000056] J	0.0000067 [0.000005] J	0.0000046 [0.0000067] J	ND [0.000028]	-
375-92-8	EPA 537M BY ID	PFHPS	mg/L	-	-	ND [0.0000056]	ND [0.000005]	ND [0.0000067]	ND [0.000028]	-
307-24-4	EPA 537M BY ID	PFHxA	mg/L	-	-	0.0000189 [0.0000056]	0.0000105 [0.000005]	0.00001 [0.0000067] J	ND [0.000028]	-
355-46-4	EPA 537M BY ID	PFHxS	mg/L	-	-	0.0000316 [0.0000056]	0.0000508 [0.000005]	0.0000255 [0.0000067]	0.0000506 [0.000028] J	-
375-95-1	EPA 537M BY ID	PFNA	mg/L	-	-	0.0000106 [0.0000056] J	0.0000059 [0.000005] J	0.0000094 [0.0000067] J	ND [0.000028]	-
335-67-1	EPA 537M BY ID	PFOA	mg/L	0.0004	-	0.000009 [0.0000056] J	0.0000159 [0.000005]	0.000009 [0.0000067] J	ND [0.000028]	-
1763-23-1	EPA 537M BY ID	PFOS	mg/L	0.0004	-	0.0000343 [0.0000056]	0.0000176 [0.000005]	0.0000114 [0.0000067] J	0.0000176 [0.000028] J	-
754-91-6	EPA 537M BY ID	PFOSA	mg/L	-	-	ND [0.000056]	ND [0.00001]	ND [0.000013]	ND [0.000056]	-
2058-94-8	EPA 537M BY ID	PFUnA	mg/L	-	-	ND [0.000028]	ND [0.000005]	ND [0.0000067]	ND [0.000028]	-

Notes:

Bold = Result exceeds ADEC Groundwater Human Health Levels.

Bold = The result exceeds RCRA TCLP.

- = no criteria/not analyzed

[] = limit of detection (LOD)

CAS = Chemical Abstracts Service

GCL/SCL = groundwater/soil cleanup level

ID = identification

mg/L = milligram(s) per liter

ND = nondetect

QA/QC = quality assurance/quality control

RCRA = Resource Conservation Recovery Act

SDG = sample delivery group

TCLP = Toxicity Characteristic Leaching Procedure

- J = The result is an estimated value because it was greater than the DL but less than the limit of quantitation.
- E = The result was nondetect (ND) and the limit of detection (LOD) exceeds the GCL or SCL.
- B = The analyte was detected in the method blank, trip blank or equipment blank and the concentration in the sample did not exceed the blank concentration by a factor of 5.

¹ 18 AAC 75. Table C Groundwater Human Health Cleanup Levels (ADEC 2021)

 $^{^{2}}$ 40 CFR 261, Appendix II, 1993 ed., as amended by 58 FR 46040, August 31, 1993.

2022 MarkAir Warehouse Groundwater Monitoring – Fairbanks International Airport, Fairbanks, Alaska Table F.6 Soil Waste Sample Results

					Location ID: Sample ID: SDG: Lab Sample ID:	DR-SO 22MAH-DR-SO 1226513 1226513001	TB Trip Blank 1226513 1226513002
				3	Sample Date/Time: Laboratory: QA/QC:	10/20/2022 15:55:00 SGS Environmental Primary Sample	10/20/2022 00:00:00 SGS Environmental Trip Blank
CAS Number	Method	Analyte	Units	SCL ¹	RCRA 20 Times TCLP ²		
-	A2540G	Total Solids	Percent	-	-	87.2	-
	AK101 AK102	GRO DRO	mg/kg	300 250	-	2.8 [3.31] J,B ND [11.4]	1.17 [1.26] J,B
-	AK102 AK103	RRO	mg/kg mg/kg	10000	-	79.3 [57] J	<u>-</u>
7439-92-1	6020B	Lead	mg/kg	400	100	8.98 [0.115]	-
630-20-6	8260D	1,1,1,2-Tetrachloroethane	mg/kg	0.022	-	ND [0.0265] E	ND [0.0101]
71-55-6 79-34-5	8260D 8260D	1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane	mg/kg mg/kg	32 0.003	-	ND [0.0331] ND [0.00265]	ND [0.0126] ND [0.001]
79-00-5	8260D	1,1,2-Trichloroethane	mg/kg	0.003	-	ND [0.00203]	ND [0.001]
75-34-3	8260D	1,1-Dichloroethane	mg/kg	0.092	-	ND [0.0331]	ND [0.0126]
75-35-4	8260D	1,1-Dichloroethene	mg/kg	1.2	14	ND [0.0331]	ND [0.0126]
563-58-6 96-18-4	8260D 8260D	1,1-Dichloropropene 1,2,3-TCP	mg/kg mg/kg	0.000031	-	ND [0.0331] ND [0.00265] E	ND [0.0126] ND [0.001] E
87-61-6	8260D	1,2,3-1 GF 1,2,3-Trichlorobenzene	mg/kg	0.000031	-	ND [0.133]	ND [0.0505]
95-63-6	8260D	1,2,4-TMB	mg/kg	0.61	-	ND [0.133]	ND [0.0505]
120-82-1	8260D	1,2,4-Trichlorobenzene	mg/kg	0.082	-	ND [0.0331]	ND [0.0126]
96-12-8 95-50-1	8260D 8260D	1,2-Dibromo-3-chloropropane 1,2-Dichlorobenzene	mg/kg mg/kg	0.0053 2.4	-	ND [0.133] E ND [0.0331]	ND [0.0505] E ND [0.0126]
107-06-2	8260D	1,2-Dichloroethane	mg/kg	0.0055	10	ND [0.00265]	ND [0.001]
78-87-5	8260D	1,2-Dichloropropane	mg/kg	0.03	-	ND [0.0133]	ND [0.00505]
108-67-8	8260D	1,3,5-TMB	mg/kg	0.66	-	ND [0.0331]	ND [0.0126]
541-73-1 142-28-9	8260D 8260D	1,3-Dichlorobenzene 1,3-Dichloropropane	mg/kg mg/kg	2.3 1600	-	ND [0.0331] ND [0.0133]	ND [0.0126] ND [0.00505]
106-46-7	8260D	1,4-Dichlorobenzene	mg/kg	0.037	150	ND [0.0331]	ND [0.0126]
594-20-7	8260D	2,2-Dichloropropane	mg/kg	-	-	ND [0.0331]	ND [0.0126]
95-49-8	8260D	2-Chlorotoluene	mg/kg	1600	-	ND [0.0331]	ND [0.0126]
591-78-6 106-43-4	8260D 8260D	2-Hexanone 4-Chlorotoluene	mg/kg mg/kg	0.11 1600	-	ND [0.159] E ND [0.0265]	ND [0.0605] ND [0.0101]
108-10-1	8260D	4-Methyl-2-Pentanone	mg/kg	18	-	ND [0.332]	ND [0.126]
67-64-1	8260D	Acetone	mg/kg	38	-	ND [0.332]	ND [0.126]
71-43-2	8260D	Benzene	mg/kg	0.022	10	ND [0.0166]	ND [0.0063]
108-86-1 74-97-5	8260D 8260D	Bromobenzene Bromochloromethane	mg/kg mg/kg	0.36 150	-	ND [0.0331] ND [0.0331]	ND [0.0126] ND [0.0126]
75-27-4	8260D	Bromodichloromethane	mg/kg	0.0043	-	ND [0.00265]	ND [0.001]
75-25-2	8260D	Bromoform	mg/kg	0.1	-	ND [0.0331]	ND [0.0126]
74-83-9	8260D	Bromomethane	mg/kg	0.024	-	ND [0.0265] E	ND [0.0101] ND [0.0505]
75-15-0 56-23-5	8260D 8260D	Carbon Disulfide Carbon Tetrachloride	mg/kg mg/kg	2.9 0.021	- 10	ND [0.133] ND [0.0166]	ND [0.0505] ND [0.0063]
108-90-7	8260D	Chlorobenzene	mg/kg	0.46	2000	ND [0.0331]	ND [0.0126]
75-00-3	8260D	Chloroethane	mg/kg	72	-	ND [0.265]	ND [0.101]
67-66-3 74-87-3	8260D 8260D	Chloroform	mg/kg	0.0071 0.61	120	ND [0.00795] E	ND [0.00302] ND [0.0126]
-	8260D	Chloromethane cis-1,3-Dichloropropene	mg/kg mg/kg	-	-	ND [0.0331] ND [0.0166]	ND [0.0126] ND [0.0063]
156-59-2	8260D	cis-DCE	mg/kg	0.12	-	ND [0.0331]	ND [0.0126]
98-82-8	8260D	Cumene	mg/kg	5.6	-	ND [0.0331]	ND [0.0126]
124-48-1 74-95-3	8260D 8260D	Dibromochloromethane Dibromomethane	mg/kg mg/kg	0.0027 0.025	-	ND [0.00665] E ND [0.0331] E	ND [0.00252] ND [0.0126]
106-93-4	8260D	EDB	mg/kg	0.0025	-	ND [0.0331] E ND [0.00199] E	ND [0.0126] ND [0.000755] E
100-41-4	8260D	Ethylbenzene	mg/kg	0.13	-	ND [0.0331]	ND [0.0126]
75-69-4	8260D	Freen-11	mg/kg	41	-	ND [0.0665]	ND [0.0252]
- 75-71-8	8260D 8260D	Freon-113 Freon-12	mg/kg mg/kg	3.9	-	ND [0.133] ND [0.133]	ND [0.0505] ND [0.0505]
87-68-3	8260D	Hexachlorobutadiene	mg/kg	0.02	10	ND [0.133] ND [0.0265] E	ND [0.0303] ND [0.0101]
-	8260D	m,p-Xylene	mg/kg	-	-	ND [0.0665]	ND [0.0252]
78-93-3	8260D	MEK Mathylana Chlarida	mg/kg	15	4000	ND [0.332]	ND [0.126]
75-09-2 1634-04-4	8260D 8260D	Methylene Chloride MTBE	mg/kg mg/kg	0.33 0.4	-	ND [0.133] ND [0.133]	ND [0.0505] ND [0.0505]
91-20-3	8260D	Naphthalene	mg/kg	0.038	-	ND [0.0331]	ND [0.0303]
104-51-8	8260D	n-Butylbenzene	mg/kg	20	-	ND [0.0331]	ND [0.0126]
-	8260D	o-Xylene	mg/kg	-	-	ND [0.0331]	ND [0.0126]
127-18-4 99-87-6	8260D 8260D	PCE p-Cymene	mg/kg mg/kg	0.19	14 -	ND [0.0166] ND [0.106]	ND [0.0063] ND [0.0403]
103-65-1	8260D	Propylbenzene	mg/kg	9.1	-	ND [0.106] ND [0.0331]	ND [0.0403] ND [0.0126]
135-98-8	8260D	sec-Butylbenzene	mg/kg	28	-	ND [0.0331]	ND [0.0126]
100-42-5	8260D	Styrene	mg/kg	10	-	ND [0.0331]	ND [0.0126]
79-01-6 98-06-6	8260D 8260D	TCE tert-Butylbenzene	mg/kg mg/kg	0.011 11	10 -	ND [0.0133] E ND [0.0331]	ND [0.00505] ND [0.0126]
108-88-3	8260D 8260D	Toluene	mg/kg mg/kg	6.7	-	ND [0.0331] ND [0.0331]	ND [0.0126] ND [0.0126]

2022 MarkAir Warehouse Groundwater Monitoring – Fairbanks International Airport, Fairbanks, Alaska Table F.6 Soil Waste Sample Results

					Location ID:	DR-SO	ТВ
					Sample ID:	22MAH-DR-SO	Trip Blank
					SDG:	1226513	1226513
				,	Lab Sample ID:	1226513001	1226513002
				•	Sample Date/Time:	10/20/2022 15:55:00	10/20/2022 00:00:00 SGS Environmental
		Laboratory: QA/QC:	SGS Environmental Primary Sample	Trip Blank			
						i ililiary Gampie	TTIP DIATIK
CAS Number	Method	Analyte	Units	SCL1	RCRA 20		
542-75-6	8260D	trans-1,3-Dichloropropene	mg/kg	0.018	Times TCLP ²	ND [0.0166]	ND [0.0063]
156-60-5	8260D	trans-DCE	mg/kg	1.3	-	ND [0.0331]	ND [0.0063] ND [0.0126]
75-01-4	8260D	VC	mg/kg	0.0008	4	ND [0.00106] E	ND [0.000403]
108-05-4	8260D	Vinyl Acetate	mg/kg	1.1	-	ND [0.133]	ND [0.0505]
1330-20-7	8260D	Xylenes	mg/kg	1.5	-	ND [0.0995]	ND [0.0378]
106-93-4	8260D-SIM	EDB	mg/kg	0.00024	-	ND [0.000166]	ND [0.000063]
120-82-1 95-50-1	8270D 8270D	1,2,4-Trichlorobenzene 1,2-Dichlorobenzene	mg/kg	0.082 2.4	-	ND [0.284] E ND [0.284]	-
541-73-1	8270D	1,3-Dichlorobenzene	mg/kg mg/kg	2.4	-	ND [0.264] ND [1.14]	-
106-46-7	8270D	1,4-Dichlorobenzene	mg/kg	0.037	150	ND [0.284] E	-
-	8270D	1-Chloronaphthalene	mg/kg	-	-	ND [0.284]	-
90-12-0	8270D	1-Methylnaphthalene	mg/kg	0.41	-	ND [0.284]	-
95-95-4	8270D	2,4,5-Trichlorophenol	mg/kg	28	8000	ND [0.284]	-
88-06-2	8270D	2,4,6-Trichlorophenol	mg/kg	0.092	40	ND [1.14] E	-
120-83-2	8270D	2,4-Dichlorophenol	mg/kg	0.21	-	ND [0.284] E	-
105-67-9 51-28-5	8270D 8270D	2,4-Dimethylphenol 2,4-Dinitrophenol	mg/kg mg/kg	3.2 0.34	-	ND [0.57] ND [5.7] E	-
121-14-2	8270D	2,4-DINITrophenoi 2,4-DNT	mg/kg	0.024	2.6	ND [5.7] E ND [0.284] E	-
-	8270D	2,6-Dichlorophenol	mg/kg	-	-	ND [0.284]	-
606-20-2	8270D	2,6-DNT	mg/kg	0.005	-	ND [0.284] E	-
91-58-7	8270D	2-Chloronaphthalene	mg/kg	26	-	ND [0.284]	-
95-57-8	8270D	2-Chlorophenol	mg/kg	0.71	-	ND [0.284]	-
91-57-6	8270D	2-Methylnaphthalene	mg/kg	1.3	-	ND [0.284]	-
95-48-7 88-74-4	8270D 8270D	2-Methylphenol 2-Nitroaniline	mg/kg mg/kg	6.2 630	4000	ND [0.284] ND [0.284]	-
88-75-5	8270D	2-Nitrophenol	mg/kg	-	-	ND [0.284]	-
91-94-1	8270D	3,3'-Dichlorobenzidine	mg/kg	0.056	-	ND [1.14] E	-
99-09-2	8270D	3-Nitroaniline	mg/kg	-	-	ND [0.57]	-
534-52-1	8270D	4,6-Dinitro-2-methylphenol	mg/kg	5.1	-	ND [2.27]	-
101-55-3	8270D	4-Bromophenyl Phenyl Ether	mg/kg	-	-	ND [0.284]	-
59-50-7	8270D	4-Chloro-3-Methylphenol	mg/kg	6300	-	ND [0.284]	-
106-47-8 7005-72-3	8270D 8270D	4-Chloroaniline 4-Chlorophenyl Phenyl Ether	mg/kg mg/kg	0.015	-	ND [1.14] E ND [0.284]	-
100-01-6	8270D	4-Nitroaniline	mg/kg	27	-	ND [0.204] ND [3.42]	-
-	8270D	4-Nitrophenol	mg/kg	-	-	ND [2.27]	-
83-32-9	8270D	Acenaphthene	mg/kg	37	-	ND [0.284]	-
208-96-8	8270D	Acenaphthylene	mg/kg	18	-	ND [0.284]	-
-	8270D	Aniline	mg/kg	-	-	ND [4.55]	-
120-12-7	8270D 8270D	Anthracene Azobenzene	mg/kg	390	-	ND [0.284] ND [0.284]	-
56-55-3	8270D	Benzo(a)anthracene	mg/kg mg/kg	0.7	-	ND [0.284]	_
50-32-8	8270D	Benzo(a)pyrene	mg/kg	1.5	-	ND [0.284]	-
205-99-2	8270D	Benzo(b)fluoranthene	mg/kg	15	-	ND [0.284]	-
191-24-2	8270D	Benzo(g,h,i)perylene	mg/kg	2300	-	ND [0.284]	-
207-08-9	8270D	Benzo(k)fluoranthene	mg/kg	150	-	ND [0.284]	-
65-85-0	8270D	Benzoic Acid	mg/kg	200	-	ND [1.71]	-
100-51-6 85-68-7	8270D 8270D	Benzyl Alcohol Benzyl Butyl Phthalate	mg/kg mg/kg	5.7 16	-	ND [0.284] ND [0.284]	-
111-91-1	8270D	bis(2-Chlorethoxy)methane	mg/kg	190	-	ND [0.204] ND [2.27]	-
-	8270D	bis(2-Chloroethyl) Ether	mg/kg	-	-	ND [0.284]	-
108-60-1	8270D	bis(2-Chloroisopropyl) Ether	mg/kg	3100	-	ND [0.284]	-
117-81-7	8270D	bis(2-Ethylhexyl)phthalate	mg/kg	88	-	0.295 [0.284] J,B	-
-	8270D	Carbazole	mg/kg	-	-	ND [0.284]	-
218-01-9 53-70-3	8270D 8270D	Chrysene Dibenzo(a,h)anthracene	mg/kg	600 1.5	-	ND [0.284] ND [0.284]	-
132-64-9	8270D 8270D	Dibenzo(a,n)anthracene Dibenzofuran	mg/kg mg/kg	0.97	-	ND [0.284]	-
84-74-2	8270D	Dibutyl Phthalate	mg/kg	16	-	0.215 [0.284] J,B	-
84-66-2	8270D	Diethyl Phthalate	mg/kg	60	-	ND [0.284]	-
131-11-3	8270D	Dimethyl Phthalate	mg/kg	48	-	ND [0.284]	-
117-84-0	8270D	Di-n-octyl Phthalate	mg/kg	370	-	ND [0.57]	-
206-44-0	8270D	Fluoranthene	mg/kg	590	-	ND [0.284]	-
86-73-7 118-74-1	8270D 8270D	Fluorene Hexachlorobenzene	mg/kg	36 0.0082	2.6	ND [0.284] ND [0.284] E	-
87-68-3	8270D 8270D	Hexachlorobenzene Hexachlorobutadiene	mg/kg mg/kg	0.0082	10	ND [0.284] E ND [0.284] E	-
77-47-4	8270D	Hexachlorocyclopentadiene	mg/kg	0.002	-	ND [0.795] E	-
67-72-1	8270D	Hexachloroethane	mg/kg	0.018	60	ND [0.284] E	-
193-39-5	8270D	Indeno(1,2,3-cd)pyrene	mg/kg	15	-	ND [0.284]	-
78-59-1	8270D	Isophorone	mg/kg	2.7	-	ND [0.284]	-

2022 MarkAir Warehouse Groundwater Monitoring – Fairbanks International Airport, Fairbanks, Alaska **Table F.6 Soil Waste Sample Results**

					Location ID:	DR-SO	ТВ
					Sample ID:	22MAH-DR-SO	Trip Blank
					SDG:	1226513	1226513
Lab Sample ID:						1226513001	1226513002
Sample Date/Time:						10/20/2022 15:55:00	10/20/2022 00:00:00
Laboratory:						SGS Environmental	SGS Environmental
		Primary Sample	Trip Blank				
RCRA 20							
CAS Number	Method	Analyte	Units	SCL ¹	Times TCLP ²		
-	8270D	m,p-Cresol	mg/kg	-	-	ND [1.14]	-
91-20-3	8270D	Naphthalene	mg/kg	0.038	-	ND [0.284] E	-
98-95-3	8270D	Nitrobenzene	mg/kg	0.0079	40	ND [0.284] E	-
62-75-9	8270D	n-Nitrosodimethylamine	mg/kg	0.0000033	-	ND [0.284] E	-
621-64-7	8270D	n-Nitrosodi-n-propylamine	mg/kg	0.00068	-	ND [0.284] E	-
86-30-6	8270D	n-Nitrosodiphenylamine	mg/kg	4.6	-	ND [0.284]	-
87-86-5	8270D	Pentachlorophenol	mg/kg	0.0043	2000	ND [4.55] E	-
85-01-8	8270D	Phenanthrene	mg/kg	39	-	ND [0.284]	-
108-95-2	8270D	Phenol	mg/kg	29	-	ND [0.284]	-
129-00-0	8270D	Pyrene	mg/kg	87	-	ND [0.284]	-
757124-72-4	EPA 537M BY ID	4:2 Fluorotelomer sulfonate	mg/kg	-	-	ND [0.00059]	-
27619-97-2	EPA 537M BY ID	6:2 Fluorotelomer sulfonate	mg/kg	-	-	ND [0.00059]	-
39108-34-4	EPA 537M BY ID	8:2 Fluorotelomer sulfonate	mg/kg	-	-	ND [0.00059]	-
2991-50-6	EPA 537M BY ID	EtFOSAA	mg/kg	-	-	ND [0.0012]	-
2355-31-9	EPA 537M BY ID	MeFOSAA	mg/kg	-	-	ND [0.0012]	-
335-77-3	EPA 537M BY ID	Perfluorodecanesulfonic acid	mg/kg	-	-	ND [0.00059]	-
68259-12-1	EPA 537M BY ID	Perfluorononanesulfonic acid	mg/kg	-	-	ND [0.00059]	-
2706-91-4	EPA 537M BY ID	Perfluoropentanesulfonic acid	mg/kg	-	-	ND [0.00059]	-
2706-90-3	EPA 537M BY ID	Perfluoropentanoic acid	mg/kg	-	-	ND [0.00059]	-
376-06-7	EPA 537M BY ID	Perfluorotetradecanoic acid	mg/kg	-	-	ND [0.00059]	-
72629-94-8	EPA 537M BY ID	Perfluorotridecanoic acid	mg/kg	-	-	ND [0.00059]	-
375-22-4	EPA 537M BY ID	PFBA	mg/kg	-	-	ND [0.00059]	-
375-73-5	EPA 537M BY ID	PFBS	mg/kg	-	-	ND [0.00059]	-
335-76-2	EPA 537M BY ID	PFDA	mg/kg	-	-	ND [0.00059]	-
307-55-1	EPA 537M BY ID	PFDoA	mg/kg	-	-	ND [0.00059]	-
375-85-9	EPA 537M BY ID	PFHpA	mg/kg	-	-	ND [0.00059]	-
375-92-8	EPA 537M BY ID	PFHPS	mg/kg	-	-	ND [0.00059]	-
307-24-4	EPA 537M BY ID	PFHxA	mg/kg	-	-	ND [0.00059]	-
355-46-4	EPA 537M BY ID	PFHxS	mg/kg	-	-	ND [0.00059]	-
375-95-1	EPA 537M BY ID	PFNA	mg/kg	-	-	ND [0.00059]	-
335-67-1	EPA 537M BY ID	PFOA	mg/kg	0.0017	-	ND [0.00059]	-
1763-23-1	EPA 537M BY ID	PFOS	mg/kg	0.003	-	ND [0.00059]	-
754-91-6	EPA 537M BY ID	PFOSA	mg/kg	-	-	ND [0.00059]	-
2058-94-8	EPA 537M BY ID	PFUnA	mg/kg	-	-	ND [0.00059]	-

Bold = The result exceeds RCRA 20 Times TCLP.

– = no criteria/not analyzed

[] = limit of detection (LOD)

ID = identification

mg/kg = milligram(s) per kilogram

ND = nondetect

QA/QC = quality assurance/quality control

SDG = sample delivery group

- J = The result is an estimated value because it was greater than the DL but less than the limit of quantitation.
- E = The result was nondetect (ND) and the limit of detection (LOD) exceeds the GCL or SCL.
- B = The analyte was detected in the method blank, trip blank or equipment blank and the concentration in the sample did not exceed the blank concentration by a factor of 5.

ADEC Table B1 and B2, Most stringent of Human Health (Under 40 inch zone) and migration to groundwater (ADEC 2021).

ADEC Table B Falld b2, Wood stringent of Hallach Today (240 CFR 261, Appendix II, 1993 ed., as amended by 58 FR 46040, August 31, 1993.
 Bold = Result exceeds ADEC Most Stringent.



ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SPILL PREVENTION AND RESPONSE

Contaminated Sites and Prevention Preparedness and Response Programs

Contaminated Media Transport and Treatment or Disposal Approval Form

HAZARD ID # or SPILL ID # NAME OF CONTAMINATED SITE OR SPILL							
CONTAMINATED SITE OR SPILL LOCATION – ADDRESS OR OTHER APPROPRIATE DESCRIPTION							
CURRENT PHYSICAL LOCATION	N OF MEDIA		SOURCE OF THE CONTAMINATION				
	(DAY IANK, FIRE	(DAY TANK, FIRE TRAINING PIT, LUST, ETC.)					
CONTANTA NECO CONCEDIO		DATE(C) CENI	TD A TED				
CONTAMINANTS OF CONCERN	ES	TIMATED VOLUME	DATE(S) GENE	RATED			
	EOLUDED / /	CDO DDO DDO VOC	, I DEAG	1/ Cl1 : IC 1			
POST TREATMENT ANALYSIS R	EQUIRED (such a	is GRO, DRO, RRO, VOCS	s, metals, PFAS, and	I/or Chlorinated Solvents)			
COMMENTES OF OTHER IMPORT		TION					
COMMENTS OR OTHER IMPORT	TANT INFORMA	TION					
TREATMENT FACILITY, LANDI	TII PH	YSICAL ADDRESS/PHO	NF NIMRER				
AND/OR FINAL DESTINATION O		ISICAL ADDRESS/III	ONE NOMBER				
RESPONSIBLE PARTY	AD	DRESS/PHONE NUMBI	ER				
WASTE MANAGEMENT CO. / OR	GANIZER AD	DRESS/PHONE NUMBI	ER				
122 122 12 12 12 12 12 12 12 12 12 12 12							
*Note, disposal of polluted soil in a landfill requires prior approval from the landfill operator and ADEC Solid Waste Program.							
			-	C .			
Elles N. Thomas							
Elise N. Thomas		Environmental Manager					
Name of the Person Requesting Approx	val (printed)	Title/Assoc	iation				
Elise N. Thomas Digitally s	nas 0' 5/4/20	123	9074742598				
							
Signature		Date		Phone Number			
	D]	EC USE ONLY					
Based on the information provider	d ADEC approve	es transport of the above	e mentioned mate	erial The Responsible			
Based on the information provided, ADEC approves transport of the above mentioned material. The Responsible Party or their consultant must submit to the DEC Project Manager a copy of weight receipts of the loads transported							
and a post treatment analytical report, if disposed of at an approved treatment facility. The contaminated soil shall be							
transported as a covered load in co	_		,				
Dahakah Daama	_						
Rebekah Reams		Enviror	nmental Pro	gram Specialist III			
Rebekah Reams DEC Project Manager Name (printed)		Enviror Project Ma		gram Specialist III			
DEC Project Manager Name (printed) Digitally	signed by Rebekah Re	Project Ma	nager Title				
DEC Project Manager Name (printed) Digitally	signed by Rebekah Re 23.05.04 15:24:58 -08'0	Project Ma	nager Title	gram Specialist III (907) 451-2144 Phone Number			

Rev. 01/2020

DEC Comments to *MarkAir Hangar Site Characterization Report* for MarkAir - FIA Main Facility (Hanger)

ADEC File No: 100.26.043 **Hazard ID:** 24293

Reviewer: Rebekah Reams, Alaska Department of Environmental Conservation, Contaminated Sites Program

Response: Jacobs on behalf of FIA **Dated:** January 26, 2024

Comment No.	Pg. #	Section	Comment / Recommendations	Response
1.	1-10	1.4 Soil and Groundwater Screening Levels	Typo: Table 1-1 indicates the migration to groundwater soil cleanup level for benzene is 0.52 mg/kg. Please update this table to reflect the current benzene cleanup level of 0.022 mg/kg.	Accepted; Table 1-1 has been updated with current benzene cleanup level of 0.022 mg/kg.
2.	2-3	2.2 Soil Borings and Sampling	This section of the report indicates that one duplicate soil sample was collected for 12 project samples; however, the sample data provided indicates that two field duplicate pairs were submitted (SB7b-SO10-10.5/SB7b-SO10-10.5A and SB8b-SO10-10.5/SB8b-SO10-10.5A). Please verify this information and update as necessary.	Accepted; Section 2.2 has been updated to reflect that two field duplicate pairs were submitted for soil samples.
3.		Appendix C	Many pages of lab data provided in Appendix C contain formatting issues. Please re-attach these lab reports to resolve the formatting issues or provide separate copies of lab data for DEC records.	Accepted; lab reports were removed and appended without downsizing, which may have caused the formatting issues. Each page was checked for errors and revised with dated comments.
4.		Appendix D: CSM	Please note that while no soil cleanup level exceedances were observed during this sampling event, DEC considers soil to be an impacted media and a potential future exposure pathway due to former cleanup level exceedances observed in soils underneath current site infrastructure.	Accepted; changed the soil pathway to "complete" in the Appendix D: CSM forms and graphic. Added this note from ADEC to CSM form text box.