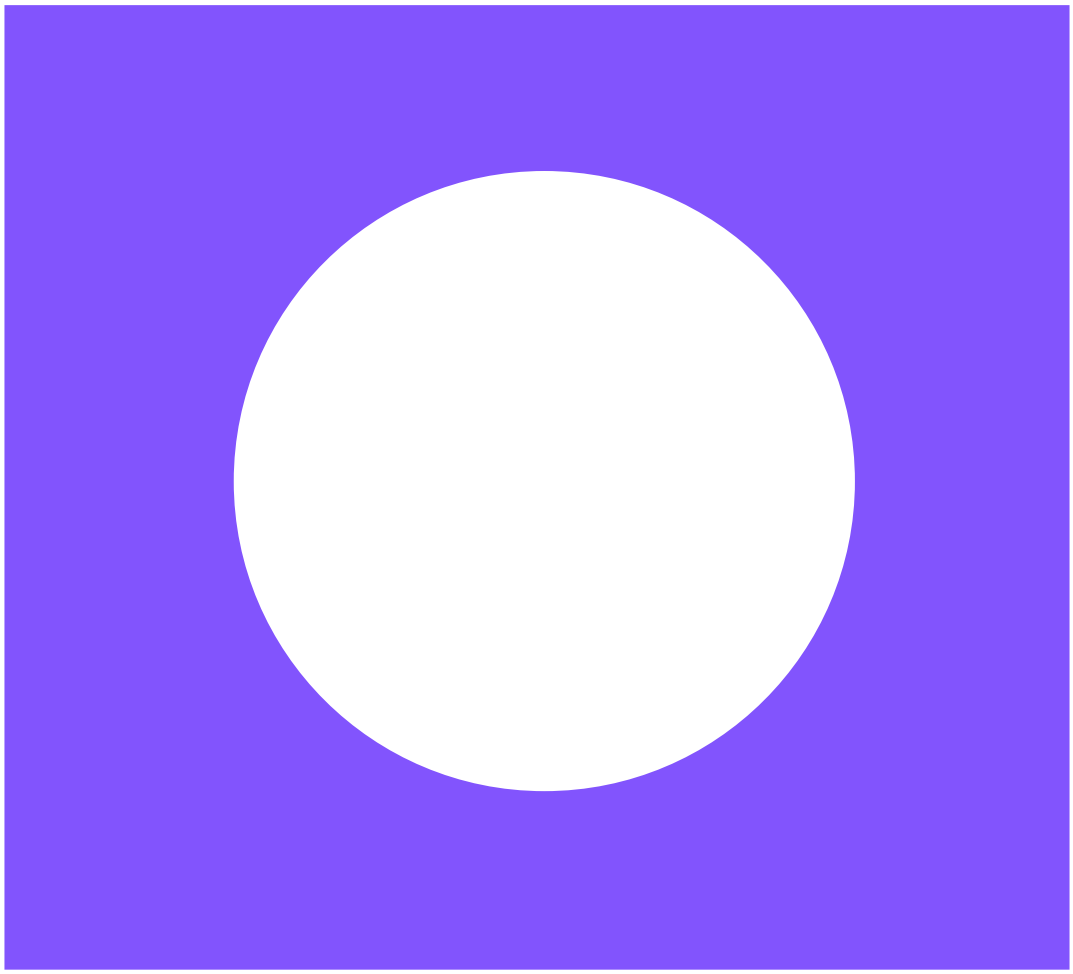
MOTT MACDONALD



Sunnyside Municipal Airport Pesticide Spray Shed

Draft Cleanup Action Plan
Sunnyside, Washington

June 2025

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Mott MacDonald
1601 5th Avenue
Suite 800
Seattle
WA 98101
United States of America

T +1 (206) 838 2886
mottmac.com

City of Sunnyside
818 E Edison Avenue
Sunnyside, WA 98944

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SIGNATURE

This report, and Mott MacDonald's work contributing to this report, were reviewed by the undersigned and approved for release.

Janet N. Knox
Licensed Geologist
Washington State Geologist No. 413

Executive summary

Pacific Groundwater Group (work performed under Mott MacDonald contract; now Strata Geosciences, LLC) is pleased to submit the draft Cleanup Action Plan (dCAP) for the Sunnyside Municipal Airport Pesticide Spray Shed site (Site) in Sunnyside, Washington. This dCAP was prepared by the Washington State Department of Ecology (Ecology) in collaboration with the City of Sunnyside. This dCAP has been prepared to meet the requirements of the Model Toxics Control Cleanup Act (MTCA) administered by Ecology under Chapter 173-340 of the Washington Administrative Code (WAC). This dCAP describes Ecology's proposed cleanup action for this Site and sets forth the requirements that the cleanup must meet.

The Sunnyside Municipal Airport serves the City of Sunnyside and surrounding agricultural areas and is located on the eastern edge of the city. Portions of the airport have been used since the 1940s for crop duster operations including tank filling and aircraft spray down; these operations are believed to have resulted in releases of pesticides resulting in soil and groundwater concentrations above state cleanup levels. Nitrate concentrations in groundwater are also above background at the Site but appear to be at background concentrations at the downgradient property boundary. The extent of contamination above cleanup and background levels is limited to the Sunnyside Municipal Airport property based on existing data.

The preferred remedial action is described in the Focused Feasibility Study as Alternative 3, which includes limited excavation of impacted soils concurrent with installation of an asphalt cap over contamination that would be left in place. This remedy was selected from a total of five remedial alternatives based on the relative costs and environmental benefits, as evaluated through the MTCA disproportionate cost analysis process. Natural degradation of remaining contaminants may take on the order of 90 years, but this is a conservative estimate for costing purposes given uncertainty in degradation times. It is likely that restoration will be achieved sooner; the April and May 2025 sampling analytical results indicate that concentrations have decreased compared to results from 2014 to 2018. The decreasing trend may indicate a shorter restoration timeframe, to be confirmed in future remedial action and sampling.

1 Introduction

The Sunnyside Municipal Airport serves the City of Sunnyside and surrounding agricultural areas and is located on the eastern edge of the city (Figures 1 and 2). It is owned by the City of Sunnyside. Portions of the airport have been used since the 1940s for crop duster operations including tank filling and aircraft spray down. Ecology confirmed the presence of pesticide-impacted soil in 2010 near a former pesticide storage shed. Pacific Groundwater Group conducted a Remedial Investigation for the City of Sunnyside, which was accepted by Ecology on December 8, 2014 (PGG, 2014; Ecology, 2014).

The City presents this dCAP in accordance with Agreed Order DE 9746, as amended effective September 1, 2015.

This work was performed, our findings obtained, and this report prepared, using generally accepted environmental practices used at this time and in this vicinity, for exclusive application to this study, and for the exclusive use of the City of Sunnyside. This in lieu of other warranties, express or implied.

1.1 General Facility Information

Site Name:	Sunnyside Municipal Airport Pesticide Spray Shed
Site Address:	3318 Edison Road, Sunnyside, WA 98944
Parcel Number:	23102924003
Facility/Site ID:	20367
Cleanup Site ID:	11423
Agreed Order Number:	DE 9746

1.2 Purpose

The purpose of the dCAP is to identify the proposed cleanup action for the Site and to provide an explanatory document for public review. More specifically, this plan:

- Describes the Site
- Summarizes current Site conditions;
- Summarizes the cleanup action alternatives considered in the remedy selection process;
- Describes the selected cleanup action for the Site and the rationale for selecting this alternative;
- Identifies Site-specific cleanup levels and points of compliance for each hazardous substance and medium of concern for the proposed cleanup action;
- Identifies applicable state and federal laws for the proposed cleanup action;

- Identifies residual contamination remaining on the Site after cleanup and restrictions on future uses and activities at the Site to ensure continued protection of human health and the environment;
- Discusses compliance monitoring requirements; and
- Presents the schedule for implementing the CAP.

Ecology has made a preliminary determination that a cleanup conducted in conformance with this dCAP will comply with the requirements for selection of a remedy under WAC 173-340-360.

1.2.1 Environmental Justice

When identifying cleanup actions for this alternative, the threats posted by the site to human health and the environment, including likely vulnerable populations and overburdened communities was taken into account per WAC 173-340-351 and WAC 173-340-360.

1.3 Previous Studies

The following studies and reports have been completed to date:

- Remedial Investigation Work Plan, Sunnyside Municipal Airport Pesticide Spray Shed, December 2013.
- Remedial Investigation Report, Sunnyside Municipal Airport Pesticide Spray Shed, December 2014.
- Interim Groundwater Monitoring Plan, Sunnyside Airport Pesticide Spray Shed Site, March 2017.
- Draft Focused Feasibility Study, Sunnyside Municipal Airport Pesticide Spray Shed, January 2016.
- Revised Focused Feasibility Study, Sunnyside Municipal Airport Pesticide Spray Shed, April 2025 Draft.

1.4 Regulatory Framework

The regulatory framework for the Site is MTCA and the Site Agreed Order. In addition, work within the airport must comply with Federal Aviation Administration requirements and soil excavation may require permitting. We are working with the City of Sunnyside to comply with these requirements.

2 Site Description

2.1 Site History

Sunnyside Municipal Airport has been active since at least the 1940s. The airport was originally a dirt strip with later paving of the runway and taxiways. The Site is currently used for civilian aviation including support for crop dusting operations and operation of other small aircraft. The Site is level and is not paved beyond the edges of the asphalt taxiway.

A remedial investigation (RI) was conducted at the Site in response to a citizen report to Ecology and subsequent confirmation of pesticide impacts at the Site. The RI delineated an area of impacted soil and groundwater at and around a former pesticide spray shed and aircraft spray down area (PGG, 2014). Anecdotal reports also indicate that there may be buried debris at the Site including pesticide storage cans and other metal debris. A geophysical survey of the Site conducted during the RI is consistent with the presence of pockets of buried metal. Supplemental groundwater sampling conducted in 2015 to confirm groundwater pesticide concentrations also discovered elevated nitrate concentrations in groundwater above background levels.

Supplemental investigations following the RI confirmed pesticide and herbicide concentrations above screening levels at the water table in SMW-1, SMW-2, and SMW-3 and at concentrations consistent with the RI findings. Analytical results at SMW-4, which is completed in the deeper sand and gravel unit, included a single detection above screening levels. This suggests that groundwater impacts do not extend beyond the southern property boundary, consistent with the conceptual model in the RI.

Nitrate was not included as a constituent of concern in the RI and thus the supplemental investigations are used to update Site characterization for this FFS. Nitrate concentrations range from 3.3 to 190 mg/L at the Site, with the highest concentrations detected at SMW-3. Groundwater nitrate concentrations are regionally elevated and background at the Site appears to be somewhat variable between 10 and 20 mg/L (PGG, 2016). The extent of nitrate groundwater impacts appears to be centered near what is now the location of the metal building and extends west of the pesticide extent of contamination. Groundwater samples collected at the southern property boundary at the water table in the silt unit and in the deeper sand and gravel unit were at background concentrations. Nitrate is added to the Site constituents of concern based on the results of the supplemental investigations.

The August 2016 groundwater sample collected in the sand and gravel unit was below reporting limits for all constituents of concern except nitrate. Nitrate was detected at 35 mg/L, which is similar to other upgradient groundwater samples and within an expected range for regional background. The groundwater sample provides an upgradient bound on the extent of groundwater impacts.

The August 2016 test pitting did not find evidence of pesticide containers. Buried metallic debris was identified at each of the locations. The buried debris appeared to be household items that had been partially burned and buried. The two eastern test pits exposed foundation footings from historic structures.

In addition, two rounds of monitoring well sampling were performed on April 17 and May 28, 2025. The analytical laboratories are capable of achieving reporting limits at or below cleanup levels and were informed to do so, however they may not achieve these levels on a case-by-

case basis based on issues with the analytical method and sample matrix interferences. Analytical results that do not achieve the target reporting limits will have elevated reporting limits listed when the result is non-detect and these elevated reporting limits will be discussed. Upon receipt of the April and May analytical data, a data quality review was performed and found to be acceptable for use in this project. The April results showed exceedances of screening levels, now cleanup levels, for only three analytes (constituents of concern) in three wells in addition to nitrate. Specifically:

- Aldrin exceeds the cleanup level (0.005 ug/L) at two monitoring wells, SMW-3 (0.41 ug/L) and SMW-4 (0.0057 ug/L).
- Alpha-BHC exceeds the cleanup level (0.014 ug/L) at two wells, SMW-1 (0.022 ug/L) and SMA-3 (0.017 ug/L).
- Dinoseb exceeds the cleanup level (7 ug/L) in SMW-4 (15.3 ug/L).

The May results showed exceedances of cleanup levels for five pesticides in addition to nitrate:

- Alpha-BHC exceeds the cleanup level (0.014 ug/L) in SMW-1 (0.03 ug/L) and SMW-3 (0.035 ug/L).
- Cleanup levels for delta-BHC (0.005 ug/L), dieldrin (0.005 ug/L), and heptachlor epoxide (0.005 ug/L) were exceeded in SMW-1 (0.11 ug/L, 0.065 ug/L, and 0.0096 ug/L respectively). Delta-BHC has been detected in SMW-1 twice previously at the same or higher concentration, and dieldrin has been detected in SMW-1 six times previously at concentrations above and below this result. Heptachlor epoxide had not previously been detected in SMW-1.
- Toxaphene exceeded the cleanup level (0.08 ug/L) in SMW-1 (5.4 ug/L), SMW-2 (3.5 ug/L), and SMW-3 (7.4 ug/L). All three wells have had a single additional toxaphene detection, each in 2014, and all at higher concentrations than in this May 2025 sampling event. In contrast, toxaphene was not detected in the April 2025 sampling. It is recommended that for future monitoring, the laboratory should be alerted to inconsistencies in toxaphene data and additional quality assurance needed to confirm toxaphene detection such as matrix spike/matrix spike duplicate.

The detections of these chemicals in the May 2025 sampling event correlate with a noteworthy shift in groundwater flow direction and water table elevation compared to April 2025, which is consistent with groundwater samples measuring a different portion of the contaminated groundwater at the site. Overall, detected contaminants in the April and May 2025 groundwater monitoring results are significantly lower than in 2014 to 2018. Future groundwater monitoring will inform the variability and trends of these contaminant concentrations. If one or more new groundwater monitoring wells are installed in the future, we recommend that historical groundwater flow directions and resulting contaminant concentrations play a role in determining well locations.

2.2 Constituents of Concern and Cleanup Levels

The RI and supplemental data collection confirmed the presence of impacts to soil and groundwater. In the past, contaminants analyzed in soil and groundwater at the Site were:

- Organochlorine Pesticides
- Organophosphorous Pesticides
- Chlorinated Herbicides
- Nitrate

Table 1 provides a summary of historic detections of Constituents of Concern (COCs). Tables 2 and 3 summarize soil and groundwater results, respectively, and their cleanup levels. Screening levels were developed for the RI and are presented in Table 2-2 of that report. Screening levels that were below the practical quantitation limit (PQL) have been revised to the PQL (PGG, 2014). This adjustment to PQLs is consistent with Washington Administrative Code (WAC) 173-340-720(7)(c) and does not alter the estimated extent of contamination. COCs with cleanup levels adjusted to meet PQL concentrations include aldrin (adjusted from 0.003 ug/L to 0.005 ug/L), dichlorvos (adjusted from 0.151 ug/L to 0.2 ug/L), EPN (adjusted from 0.16 ug/L to 0.2 ug/L), and 2,4,5-T (adjusted from 0.02 ug/L to 0.024 ug/L).

As shown on Table 3, not all pesticides and herbicides have been found in groundwater in the past. Based on the April 2025 analytical results presented in Section 2.1, only three pesticides (aldrin, alpha-BHC, and dinoseb) exceed cleanup levels in one to three wells. In past sampling, more organochlorine pesticides and chlorinated herbicides were detected, although no organophosphorous pesticides have not been detected since 2017 at the Site. Therefore, we recommend that groundwater monitoring for the remedial action only include the following as Constituents of Concern (COCs):

- Organochlorine Pesticides
- Chlorinated Herbicides
- Nitrate

2.3 Human Health and Environmental Concerns: Extent of Contamination

The analytical results for the Site confirm human health and environmental concerns due to the presence of soil and groundwater contamination. The risks of exposure include soil direct contact and groundwater direct contact. The extent of risks is limited to the Site property as described in this section.

The extents of contamination in soil and groundwater were investigated in the Remedial Investigation and updated following the December 2015 supplemental investigation (PGG, 2014; 2015). Figure 3 shows the revised extent of contamination in soil and groundwater. Key features of the extent of contamination include:

- Shallow soil (less than 5 feet) contamination is concentrated in former use areas, as inferred from historic air photos (PGG, 2014). Pesticide impacts below 5 feet primarily occur at the location of the former pesticide spray shed. An additional, a smaller soil exceedance area is also present in the southwest corner of the Site.
- Pesticide groundwater impacts near the water table appear to be similar in extent to the soil impacts. In the deeper sand and gravel unit, limited impacts above the screening levels were observed at location SP-32, and all pesticides were below screening levels at SMW-4 except nitrate and dinoseb, which is at the south (downgradient) property boundary. Nitrate measured at SMW-4 is significantly lower than other monitoring wells and is likely associated with agricultural sources outside the Site. Dinoseb observed in SMW-4 warrants additional monitoring to assess trends and possibly the installation of a new groundwater monitoring well if trends show increasing concentrations. The 2025 sampling event will provide additional information regarding dinoseb and other contaminant concentrations.
- Based on groundwater and soil sampling events from 2015 to 2018, there was no clear trend of degradation within that short timeframe. Conditions are such that there should be degradation occurring for a number of Site contaminants. The April and May 2025 sampling

appears to indicate a significant amount of degradation of site contaminants has occurred since monitoring began, but this will need to be confirmed with future groundwater monitoring. Overall, pesticide impacts do not appear to extend beyond the southern property boundary at the water table or in the deeper sand and gravel unit. The nitrate extent of contamination is mapped (Figure 3) as concentrations above background (15 mg/L). The extent of exceedance near the water table is similar to the pesticide extent but extends further to the west. Groundwater nitrate concentrations do not appear to exceed background at the southern property boundary.

2.4 Fate and Transport

The fate and transport of contaminants is discussed in the RI (PGG, 2014) and is summarized and updated in the Focused Feasibility Study (Draft Mott MacDonald 2025). There is substantial variability in sorption, solubility, and biodegradation rates among constituents detected at the Site. Partitioning coefficients (K_{oc}) (Draft Focused Feasibility Study Table 4; Mott MacDonald, April 2025) imply retardation factors (R) span three orders of magnitude.

The fate and transport of pesticides and herbicides are chemical-specific and based on the chemical properties of each pesticide or herbicide. These fate and transport characteristics are a hybrid of the soil and chemical properties. The shallow silt unit is part of the glacial outburst flood slackwater deposits (Touchet Beds). These soil units are well characterized for both research and agricultural purposes and literature values are sufficient for the requested information (i.e. Chan, 2003).

Empirical (monitoring) evidence of degradation is the most compelling data to indicate degradation and describe the fate and transport for this Site. The April and May 2025 groundwater sampling provide empirical evidence regarding trends in contaminant degradation, indicating that overall contaminant concentrations have decreased significantly since monitoring performed from 2014 to 2018. Future monitoring will be needed to confirm the rate of degradation and contaminant-specific degradation.

2.4.1 Terrestrial Ecological Evaluation

Terrestrial ecological evaluations (TEE) are conducted to determine if contamination at a site presents risk to plants or animals that may inhabit or occupy the site. A TEE was conducted as part of the RI Work Plan (PGG, 2013) and is revisited here based on data collected during the RI and Ecology comments on the draft Feasibility Study (Ecology, 2017). The Site does not qualify for an exclusion under the simplified TEE evaluation due to the acreage of the adjacent agricultural parcel, which is classified as undeveloped land. However, no additional TEE is required under WAC 173-340-7491(1)(b) because the anticipated remedial action prevents contact with contamination. The relevant portions of MTCA are:

(1) Criteria for determining that no further evaluation is required. No further evaluation is required if the department determines that a site meets any of the criteria in (a) through (d) of this subsection:

And:

(1)(b) All soil contaminated with hazardous substances is, or will be, covered by buildings, paved roads, pavement, or other physical barriers that will prevent plants or wildlife from being exposed to the soil contamination. To qualify for this exclusion, an institutional control shall be required by the department under WAC 173-340-440. An exclusion based on planned future

land use shall include a completion date for such future development that is acceptable to the department;

As described in Section 3, the selected remedial action includes a physical barrier and institutional controls that will prevent plants or wildlife from coming into contact with contaminated soil.

3 Selected Cleanup Action Alternative

This section describes the remedial action objectives and applicable remedial technologies.

The remedial action objectives (RAOs) identified for the Site are:

- RAO-1: Prevent or limit risks from direct human contact with impacted soil or groundwater
- RAO-2: Prevent offsite migration of contaminants
- RAO-3: Protect environmental receptors, which are primarily burrowing animals and bioaccumulation in predators that would consume them

These RAOs can be achieved through a combination of remedial technologies, monitoring, and institutional controls.

The five remedial alternatives for the Site incorporating selected remedial technologies described in the Revised Focused Feasibility Study, Section 3.1(Mott MacDonald, April 2025). The alternatives are:

- Alternative 1: Excavation with Groundwater Treatment
- Alternative 2: Targeted Excavation with Groundwater Treatment
- Selected Alternative 3: Containment with Groundwater Monitoring
- Alternative 4: Containment with Groundwater nZVI Treatment
- Alternative 5: Targeted Excavation with Containment

The Selected Alternative (Containment with Groundwater Monitoring) is described in this section including a description of excavation, groundwater monitoring, and institutional controls.

3.1 Selected Remedial Action: Containment with Groundwater Monitoring

Figure 3 shows the layout of the selected remedial action. This remedial action uses a containment remedy to prevent direct contact with contaminated soils and reduce infiltration. Groundwater sampling in both the silt unit and sand and gravel unit indicate that current groundwater concentrations are below screening levels for pesticides and herbicides and at or below background concentrations for nitrate at the property boundary (PGG, 2016).

The containment remedy consists of an asphalt slab over the impacted soil area and repair of damaged pavement within the existing paved aircraft tarmac. The asphalt provides a physical barrier preventing contact with impacted soils and requires concurrent institutional controls to address potential future Site redevelopment/construction or other excavation work. The asphalt cap also provides a low permeability barrier to reduce infiltration and leaching of contaminants in the vadose zone. Installation of the asphalt cap will include excavation of 1 foot of soil to provide room to install 1 foot of base fill material to support the asphalt layer.

Contaminated soil will be disposed of at an appropriate facility following soil profiling using Toxicity Characteristic Leaching Procedure (TCLP) for pesticides and total pesticide and possibly metals analyses (as required by the landfills). Soils with concentrations below hazardous waste criteria will be disposed of off-site at a Subtitle D landfill, likely either the Waste Management Columbia Ridge facility or Roosevelt Regional Landfill. Soils above hazardous waste criteria will be disposed of at the Subtitle C portion of the Columbia Ridge

landfill in Arlington, Oregon. Soils will be transported to the landfills in lined trucks with covers to provide dust control. For costing purposes, 25% of the excavated soil is assumed to require Subtitle C disposal in the Focused Feasibility Study (Mott MacDonald, April 2025 DRAFT).

Long-term groundwater monitoring will monitor compliance with RAOs. Institutional controls will be put in place for soil and groundwater remaining above cleanup levels once excavation is complete. Institutional controls will restrict the use of groundwater at the Site, and will place restrictions on excavation, which could impact future construction.

An operation and maintenance plan (OMP) would be implemented for inspection and maintenance of the containment layer. OMPs for this type of containment typically include annual inspection of the paved surface for cracks greater than 1/8-inch or other obvious damage, and for vegetation growing in the containment surface with repair within 90 days of observation. Sites using engineered containment systems may also be required to demonstrate financial assurance for maintenance of engineered control elements. Site tenants will also be required to be notified of Site restrictions associated with the remedy and have the remedy incorporated into lease agreements (Ecology, 2007).

3.1.1 Comparison to Remedial Action Objectives

This alternative would meet RAOs 1, 2 and 3. The asphalt cap will prevent direct contact with impacted soils and prevent offsite transport of soils. Offsite migration of impacted groundwater will be addressed through groundwater monitoring.

3.1.2 Excavation

Excavation serves as contaminant mass removal and to facilitate construction of an asphalt cap. The primary intent of these actions is to reduce the direct contact and ingestion pathways from contaminated soil early in the remediation process and significantly improve the overall Site protectiveness.

Excavation may require the location, and possibly temporary removal and replacement of buried infrastructure including existing monitoring wells, power supply to existing buildings, and an east-west oriented City water supply line located near the north edge of the gravel access road. This may result in local service interruptions. A survey benchmark adjacent to SMW-1 will also have to be maintained or replaced at the conclusion of excavation.

Approximately 25% of excavated soils are expected to classify as hazardous waste, requiring special disposal. Soils with concentrations below hazardous waste criteria would be disposed of offsite at a Subtitle D landfill. Soils above hazardous waste criteria would be disposed of at the Columbia Ridge Subtitle C landfill in Arlington, Oregon. Soils would be transported to the landfills in trucks with covers to provide dust control. Hazardous waste designation is based on TCLP testing results and comparison to state criteria listed in WAC 173-303-090.

Excavation is likely to encounter metallic debris in areas with geophysical anomalies as identified in the RI and subsequent test pit explorations (Figure 3, and PGG, 2014). This material may include empty pesticide containers, building fragments, or other metal debris. If pesticide containers are encountered, they would either be stockpiled separately for separate disposal or included with excavated soils after communication with the disposal facility.

3.1.3 Groundwater Monitoring

The remedial action assumes a conservative 90-year groundwater monitoring period that would be terminated when monitoring data indicate achievement of cleanup levels. Groundwater monitoring would follow a schedule including:

- Annual: 5 years
- Biennial: to 1 year from completion of monitoring when cleanup levels are achieved in groundwater samples
- Quarterly compliance monitoring in final year

Groundwater monitoring will conclude when 4 consecutive quarterly monitoring events are below applicable cleanup levels. It is expected that some constituents may be recalcitrant requiring longer monitoring times. While it is possible that groundwater objectives will be achieved in less than 90 years, the longer timeframe was applied to remain conservative for costing purposes given the uncertainty in degradation times for inaccessible contaminant mass. It is likely that restoration will be achieved sooner; the April and May 2025 sampling analytical results indicate that concentrations have decreased since 2018 sampling. The decreasing trend may indicate a shorter restoration timeframe, to be confirmed in future remedial action and sampling. A conditional point of compliance for groundwater is proposed as the property boundary.

Groundwater cost estimates are calculated using the US EPA net present value (NPV) approach (EPA, 2000). The NPV calculation estimates how much money would need to be set aside in current day dollars to pay for a future cost. This allows estimation of the cost of a long-term, recurring expense in current dollars for more realistic comparison of alternatives with different cleanup times and cost distributions. The NPV calculation assumes that the money has a rate of return at a discount rate published by the Federal Office of Management and Budget. NPV calculations assume a 2.5% discount rate. NPV calculation discounts liabilities far in the future because less money needs to be set aside for an event far in the future than one in the near future. These costs can be revisited at the time of remedy.

3.1.4 Institutional Controls

Institutional controls will include restrictions on groundwater use, construction or excavation activity, and notification requirements for the Site. Institutional controls will be attached to the Site title documents and filed with the County and City, as appropriate. Because of the large size of the airport property relative to the Site, the institutional controls will be established within a surveyed area within the parcel. Site restrictions would include:

- Groundwater within shallow aquifers above the first confining layer would be restricted to installation of monitoring wells only. The first confining layer is at approximately 75 feet bgs in the log for a nearby water supply well. This would not impact the use of deeper aquifers.
- Excavation and construction would require environmental review and may include oversight. The intent is to prevent construction workers from contacting impacted soil, and to manage and verify that excavated soil is properly handled and disposed of.
- Lease and other rental agreements would be amended to include the institutional controls and notify tenants of the Site conditions.

Institutional controls will likely be implemented after the primary construction phase of the remedial action has been completed.

Once groundwater cleanup levels are met in four consecutive quarters, institutional controls on groundwater may be lifted, however institutional controls on soil will likely remain in place in perpetuity.

3.1 Contingency

Contingency actions to be implemented in the event that remediation objectives are not met include supplemental groundwater treatment to mitigate offsite migration, installation of filtration or other water treatment at downgradient wells, or modification/repair of the asphalt cap. If, at 90 years, groundwater concentrations have not reached cleanup levels, these contingency actions may be assessed in coordination with the Washington Department of Ecology. At that time, other remedies may be found more effective and therefore one action is not selected and detailed in this document. Based on the April and May groundwater monitoring results long-term concentrations appear to be decreasing at a rate that is likely faster than the conservative restoration timeframe presented in the FSS and this document. Therefore, contingency actions are not planned at this time and will be developed in the future if found to be needed.

3.2 Public Participation

Upon receipt of Ecology concurrence of the dCAP, the dCAP will be distributed by Ecology for public review and comment. If Ecology requires revisions to the dCAP, the revised report will be submitted to Ecology for approval. Ecology will lead the public participation process with City of Sunnyside support, as possible.

3.3 Schedule for Implementation of the Remedy

The schedule for implementation of the remedy will likely be subject to Ecology grant funding and the City’s budget constraints. Upon receipt of grant funding, the implementation can begin as soon as possible when logistics are in place.

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Table 1. Constituents of Concern

Sunnyside Municipal Airport, Sunnyside, Washington

Constituent	Number of Soil Samples	Number of Soil Detections	Number of Soil Exceedances	Number of Monitoring Well Groundwater Samples	Number of Monitoring Well Groundwater Detections	Number of Monitoring Well Groundwater Exceedances
Organochlorine Pesticides (EPA Method 8081)						
4,4'-DDD	68	9	0	31	11	0
4,4'-DDE	68	25	8	31	9	0
4,4'-DDT	68	25	6	31	18	0
Aldrin	68	0	0	31	10	8
alpha-BHC	68	0	0	31	16	11
alpha-Chlordane	68	1	0	31	14	0
beta-BHC	68	0	0	31	0	0
delta-BHC	68	0	0	31	7	6
Dieldrin	68	11	11	31	18	22
Endosulfan I	68	7	0	31	13	0
Endosulfan II	68	11	0	31	19	0
Endosulfan Sulfate	68	6	0	31	9	0
Endrin	68	6	0	30	11	0
Endrin Aldehyde	68	8	0	31	7	0
Endrin Ketone	68	8	0	31	11	0
gamma-BHC	68	5	2	31	14	3
gamma-Chlordane	68	3	0	31	1	0
Heptachlor	68	0	0	31	6	2
Heptachlor Epoxide	68	6	4	31	1	1
Methoxychlor	68	8	0	31	8	0
Toxaphene	68	20	17	31	6	18
Chlorinated Herbicides (EPA Method 8151A)						
2,4,5-T	68	0	0	31	2	2
2,4,5-TP (Silvex)	68	0	0	31	7	0
2,4-D	68	4	0	31	4	0
2,4-DB	68	0	0	31	3	0
Dalapon	68	1	0	31	0	0
Dicamba	68	0	0	31	11	0
Dichlorprop	68	0	0	31	1	1
Dinoseb	68	9	1	31	27	14
MCPA	68	0	0	31	3	3
MCPP	68	1	1	31	2	2
Pentachlorophenol	68	2	2	23	1	0
Organophosphorous Pesticides (EPA Method 8270D-SIM)						
Azinphos-methyl/Guthion	63	1	1	31	0	0
Bolstar/Sulprofos	63	0	0	31	0	0
Chlorpyrifos/Dursban	63	0	0	31	0	0
Coumaphos	63	0	0	31	0	0
Demeton-S	63	0	0	31	0	0
Diazinon	63	0	0	31	0	0
Dichlorvos(DDVP)	63	0	0	31	0	0
Dimethoate	63	2	2	31	0	0
Disulfoton	63	2	1	31	2	2
EPN	63	1	1	31	0	0
Ethoprophos	63	1	1	31	0	0
Fensulfothion	63	2	2	31	0	0
Fenthion	63	0	0	31	0	0
Malathion	63	0	0	31	0	0
Merphos	63	1	0	31	0	0
Monocrotophos	63	0	0	31	0	0
Parathion-methyl	63	0	0	27	0	0
Phorate	63	0	0	31	0	0
Sulfotepp	63	0	0	31	0	0
Stirofos/Tetrachlorvinphos	63	0	0	31	0	0
Tokuthion/Prothiofos	63	0	0	31	0	0
Trichloronate	63	0	0	31	0	0
Nitrogen Compounds [1]						
Nitrate	0	0	0	28	28	28
Petroleum Compounds (NWTPH and EPA Method 8260C)						
Benzene	10	2	0	5	0	0
Toluene	10	1	0	5	0	0
Ethylbenzene	10	2	0	5	0	0
m,p-Xylene	10	2	0	4	0	0
o-Xylene	10	2	0	4	0	0
Naphthalene	10	2	0	5	0	0
Diesel Range Organics	13	2	0	10	2	2
Lube Oil Range Organics	13	2	0	10	0	0

[1] Nitrogen compounds were not analyzed in soil. Listing as an exceedance in groundwater in this table does not account for elevated background.

Table 2. Summary of Soil Analytical Results
Sunnyside Municipal Airport, Sunnyside, Washington

Constituent	Units	Table 749-3 Value	CUL	SMA-S001-06	SMA-S001-12	SMA-S002-12	SMA-S003-16	SMA-S004-12	SMW-1-S	SMW-2-S	SP-1-18-S	SP-1-40-S	SP-2-18-S	SP-2-40-S	SP-3-18-S	SP-3-40-S	SP-4-18-S	SP-4-40-S	SP-5-18-S	SP-5-40-S	SP-6-18-S	SP-6-40-S	SP-7-18-S	SP-7-30-S	SP-7-40-S	SP-8-12-S	SP-8-18-S
Organochlorine Pesticides (EPA Method 8081A)																											
4,4'-DDD	ug/kg	750 *	335	160	180	0.4	63	200	U 13	U 12	U 13	26	U 11	U 12	U 11	U 11	U 12	U 11	170	U 12	U 12	U 11	U 12	U 11	U 11	U 12	37
4,4'-DDE	ug/kg	**750 ***	446	130	**930**	4.1	**680**	**3400**	U 13	U 12	U 13	47	U 11	U 12	U 11	U 11	U 12	U 11	**3200**	**3200**	13	U 11	U 12	**670**	U 11	U 12	**1200**
4,4'-DDT	ug/kg	**750 ***	2941	**4700**	**4700**	13	1600	**4300**	16	U 12	170	1200	110	31	U 11	U 11	U 12	U 11	**3000**	**42000**	50	U 11	U 12	910	U 11	U 12	880
Aldrin	ug/kg	100	2.52	U 1.1	U 1	U 1.1	U 1.1	U 1.1	U 6.3	U 6.1	U 6.3	U 5.6	U 5.6	U 5.8	U 5.7	U 5.6	U 5.8	U 5.7	U 5.6	U 5.8	U 5.8	U 5.5	U 6.2	U 5.5	U 5.4	U 6.2	U 5.5
alpha-BHC	ug/kg	6000	0.55	U 1.1	U 1	U 1.1	U 1.1	U 1.1	U 6.3	U 6.1	U 6.3	U 5.6	U 5.6	U 5.8	U 5.7	U 5.6	U 5.8	U 5.7	U 5.6	U 5.8	U 5.8	U 5.5	U 6.2	U 5.5	U 5.4	U 6.2	U 5.5
alpha-Chlordane	ug/kg	1000	2857	U 1.1	U 1	U 1.1	U 1.1	U 1.1	U 13	U 12	U 13	U 11	15	U 12	U 11	U 11	U 12	U 11	U 11	U 12	U 12	U 11	U 12	U 11	U 11	U 12	U 11
beta-BHC	ug/kg	6000	2.27	U 1.1	U 1	U 1.1	U 1.1	U 1.1	U 6.3	U 6.1	U 6.3	U 5.6	U 5.6	U 5.8	U 5.7	U 5.6	U 5.8	U 5.7	U 5.6	U 5.8	U 5.8	U 5.5	U 6.2	U 5.5	U 5.4	U 6.2	U 5.5
delta-BHC	ug/kg	6000	1.02	U 1.1	U 1	U 1.1	U 1.1	U 1.1	U 6.3	U 6.1	U 6.3	U 5.6	U 5.6	U 5.8	U 5.7	U 5.6	U 5.8	U 5.7	U 5.6	U 5.8	U 5.8	U 5.5	U 6.2	U 5.5	U 5.4	U 6.2	U 5.5
Dieldrin	ug/kg	**70**	2.82	**30**	**180**	**8.1**	U 2.1	U 2.2	U 13	U 12	**180**	**1300**	U 11	U 12	**13**	U 11	U 12	U 11	**77**	U 12	U 12	U 11	U 12	**21**	U 11	U 12	**17**
Endosulfan I	ug/kg		304683	5.2	15	U 1.1	U 1.1	U 1.1	U 6.3	U 6.1	U 6.3	30	U 5.6	U 5.8	U 5.7	U 5.6	U 5.8	U 5.7	25	300	U 5.8	U 5.5	U 6.2	U 5.5	U 5.4	U 6.2	U 5.5
Endosulfan II	ug/kg		304683	48	150	2.7	94	100	U 13	U 12	U 13	23	U 11	U 12	U 11	U 11	U 12	U 11	100	190	U 12	U 11	U 12	U 11	U 11	U 12	U 11
Endosulfan Sulfate	ug/kg		480000	U 2.1	U 2.1	U 2.2	U 2.1	U 2.2	U 13	U 12	U 13	13	U 11	U 12	U 11	U 11	U 12	U 11	190	320	U 12	U 11	U 12	U 11	U 11	U 12	34
Endrin	ug/kg	200	440	U 2.1	U 2.1	2.4	U 2.1	U 2.2	U 13	U 12	U 13	31	U 11	U 12	U 11	U 11	U 12	U 11	180	240	U 12	U 11	U 12	U 11	U 11	U 12	25
Endrin Aldehyde	ug/kg	200	24000	U 2.1	U 2.1	U 2.2	U 2.1	U 2.2	U 13	U 12	19	14	U 11	U 12	U 11	U 11	U 12	U 11	120	270	U 12	U 11	U 12	U 11	U 11	U 12	24
Endrin Ketone	ug/kg	200	8560	U 2.1	U 2.1	0.63	82	U 2.2	U 13	U 12	410	46	U 11	U 12	U 11	U 11	U 12	U 11	92	13	U 12	U 11	U 12	U 11	U 11	U 12	U 11
gamma-BHC	ug/kg	6000	6.21	2.3	6.1	2.7	U 1.1	U 1.1	U 6.3	U 6.1	U 6.3	U 5.6	U 5.6	U 5.8	U 5.7	U 5.6	U 5.8	U 5.7	U 5.6	U 5.8	U 5.8	U 5.5	U 6.2	U 5.5	U 5.4	U 6.2	U 5.5
gamma-Chlordane	ug/kg		2857	U 1.1	U 1	1.5	U 1.1	U 1.1	U 13	U 12	U 13	U 11	U 11	U 12	U 11	U 11	U 12	U 11	37	35	U 12	U 11	U 12	U 11	U 11	U 12	U 11
Heptachlor	ug/kg	400	3.78	U 1.1	U 1	U 1.1	U 1.1	U 1.1	U 6.3	U 6.1	U 6.3	U 5.6	U 5.6	U 5.8	U 5.7	U 5.6	U 5.8	U 5.7	U 5.6	U 5.8	U 5.8	U 5.5	U 6.2	U 5.5	U 5.4	U 6.2	U 5.5
Heptachlor Epoxide	ug/kg	400	8.02	5.3	**18**	U 1.1	7.9	**12**	U 6.3	U 6.1	U 6.3	U 5.6	U 5.6	U 5.8	U 5.7	U 5.6	U 5.8	U 5.7	U 5.6	U 5.8	U 5.8	U 5.5	U 6.2	U 5.5	U 5.4	U 6.2	U 5.5
Methoxychlor	ug/kg		64160	U 11	U 10	U 10	U 11	U 11	U 13	U 12	20	150	U 11	U 12	U 11	U 11	U 12	U 11	710	U 12	U 12	U 11	U 12	U 11	U 11	U 12	94
Toxaphene	ug/kg		153	**2900**	**13000**	77	**7300**	**11000**	U 63	U 61	**870**	**1700**	**330**	130	140	U 56	U 58	U 57	**20000**	**43000**	U 58	U 55	U 62	**810**	U 54	U 62	**1800**
Chlorinated Herbicides (EPA Method 8151A)																											
2,4,5-T	ug/kg		0.97	U 7.2	U 7.1	U 7.3	U 7.2	U 7.2	U 12	U 11	U 12	U 11	U 11	U 11	U 11	U 11	U 11	U 11	U 11	U 11	U 11	U 10	U 12	U 10	U 10	U 12	U 10
2,4,5-TP (Silvex)	ug/kg		4979	U 7.2	U 7.1	U 7.3	U 7.2	U 7.2	U 12	U 12	U 12	U 11	U 11	U 11	U 11	U 11	U 11	U 11	U 11	U 11	U 11	U 10	U 12	U 10	U 10	U 12	U 10
2,4-D	ug/kg		860	7	14	U 7.3	U 7.2	31	U 12	U 11	U 12	U 10	U 10	U 11	U 11	U 11	U 11	U 11	U 11	U 11	U 11	U 10	U 12	U 10	U 10	U 12	U 10
2,4-DB	ug/kg		16179	U 7.2	U 7.1	U 7.3	U 7.2	U 7.2	U 12	U 11	U 12	U 11	U 11	U 11	U 11	U 11	U 11	U 11	U 11	U 11	U 11	U 10	U 12	U 10	U 10	U 12	U 10
Dalapon	ug/kg		959	U 27	U 27	U 27	U 27	0	U 290	U 280	U 290	U 260	U 260	U 270	U 260	U 260	U 260	U 260	U 260	U 260	U 260	U 250	U 280	U 250	U 250	U 280	U 250
Dicamba	ug/kg		3258	U 18	U 18	U 18	U 18	U 18	U 12	U 11	U 12	U 10	U 10	U 11	U 11	U 11	U 11	U 11	U 11	U 11	U 11	U 10	U 12	U 10	U 10	U 12	U 10
Dichlorprop	ug/kg		0.98	U 7.2	U 7.1	U 7.3	U 7.2	U 7.2	U 89	U 86	U 89	U 79	U 79	U 82	U 80	U 79	U 82	U 80	U 80	U 81	U 82	U 78	U 88	U 78	U 77	U 88	U 77
Dinoseb	ug/kg		688	U 18	U 18	10	U 18	U 18	U 12	**9100**	110	19	57	86	U 11	U 11	U 11	U 11	U 11	U 11	U 11	U 10	U 12	U 10	U 10	U 12	U 10
MCPA	ug/kg		424	U 7.2	U 7.1	U 7.3	U 7.2	U 7.2	U 1200	U 1100	U 1200	U 1000	U 1000	U 1100	U 1100	U 1000	U 1100	U 1100	U 1100	U 1100	U 1100	U 1000	U 1200	U 1000	U 1000	U 1200	U 1000
MCPP	ug/kg		498	U 7.2	U 7.1	U 7.3	U 7.2	U 7.2	U 1200	U 1100	U 1200	U 1000	U 1000	U 1100	U 1100	U 1000	U 1100	U 1100	U 1100	U 1100	**1100**	U 1000	U 1200	U 1000	U 1000	U 1200	U 1000
Pentachlorophenol	ug/kg	3000	3.47	**13**	**6.5**	U 18	U 18	U 18	U 6	U 5.8	U 6	U 5.3	U 5.3	U 5.5	U 5.4	U 5.3	U 5.5	U 5.4	U 5.4	U 5.5	U 5.5	U 5.2	U 5.9	U 5.2	U 5.1	U 5.9	U 5.2
Organophosphorous Pesticides (EPA Method 8270D-SIM)																											
Azinphos-methyl/Guthion	mg/kg		0.005	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	**0.023**	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Bolstar/Sulprofos	mg/kg		10.28	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Chlorpyrifos/Dursban	mg/kg		43.89	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Coumaphos	mg/kg		0.06	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Demeton-S	mg/kg		3.2	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Diazinon	mg/kg		0.03	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Dichlorvos(DDVP)	mg/kg		3.45	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Dimethoate	mg/kg		0.013	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Disulfoton	mg/kg		0.095	--	--	--	--	--	U 0.025	**0.11**	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
EPN	mg/kg		0.024	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	**0.025**	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Ethoprophos	mg/kg		0.01	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Fenchlorphos/Ronnel	mg/kg		4000	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Fensulfothion	mg/kg		0.06	--	--	--	--	--	U 0.063	U 0.061	U 0.063	U 0.056	U 0.056	U 0.058	U 0.057	U 0.056	U 0.058	U 0.057	**0.077**	**0.12**	U 0.058	U 0.055	U 0.062	U 0.055	U 0.054	U 0.062	U 0.055
Fenthion	mg/kg		0.025	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Malathion	mg/kg		2.52	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Merphos&Merphos-oxone	mg/kg		2.21	--	--	--	--	--	U 0.063	U 0.061	U 0.063	U 0.056	U 0.056	U 0.058	U 0.057	U 0.056	U 0.058	U 0.057	U 0.056	U 0.058	U 0.058	U 0.055	U 0.062	U 0.055	U 0.054	U 0.062	U 0.055
Mevinphos/Phosdrin	mg/kg		0.025	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Monocrotophos	mg/kg		0.06	--	--	--	--	--	U 0.063	U 0.061	U 0.063	U 0.056	U 0.056	U 0.058	U 0.057	U 0.056	U 0.058	U 0.057	U 0.056	U 0.058	U 0.058	U 0.055	U 0.062	U 0.055	U 0.054	U 0.062	U 0.055
Naled	mg/kg		160	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Parathion-ethyl	mg/kg		10.72	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Parathion-methyl	mg/kg		0.45	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Phorate	mg/kg		1.62	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Stirofos/Tetrachlorvinphos	mg/kg		41.7	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Sulfotepp	mg/kg		1.56	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Tokuthion/Prothiofos	mg/kg		98.19	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Trichloronate	mg/kg		0.17	--	--	--	--	--	U 0.025	U 0.024	U 0.025	U 0.022	U 0.022	U 0.023	U 0.023	U 0.022	U 0.023	U 0.023	U 0.023	U 0.023	U 0.023	U 0.022	U 0.025	U 0.022	U 0.022	U 0.025	U 0.022
Petroleum Compounds (NWTPH and EPA Method 8260C)																											
Benzene	mg/kg		0.0045	--	--	--	--	--	--	--	U 0.001	--	U 0.0011	--	U 0.00097	--	--	--	U 0.001	--	U 0.00092	--	--	--	--	--	--
Toluene	mg/kg		0.052	--	--	--	--	--	--	--	U 0.0052	--	U 0.0054	--	0.034	--	--	--	U 0.0052	--	U 0.0046	--	--	--	--	--	--
Ethylbenzene	mg/kg		0.082	--	--	--	--	--	--	--	U 0.001	--	U 0.0011	--	0.0012	--	--	--	U 0.001	--	U 0.00092	--	--	--	--	--	--
m,p-Xylene	mg/kg		4.46	--	--	--	--	--	--	--	U 0.0021	--	U 0.0022	--	0.0041	--	--	--	U 0.0021	--	U 0.0018	--	--	--	--	--	--
o-Xylene	mg/kg		0.082	--	--	--	--	--	--	--	U 0.001	--	U 0.0011	--	0.0012	--	--	--	U 0.001	--	U 0.00092	--	--	--	--	--	--
Naphthalene	mg/kg		4.65	--	--	--	--	--	--	--	U 0.001	--	U 0.0011	--	U 0.00097	--	--	--	U 0.001	--	U 0.00092	--	--	--	--	--	--
Diesel Range Organics	mg/kg		2000	U 53	U 52	U 53	U 52	94	--	--	U 31	--	U 28	--	U 28	--	--	--	U 140	--	U 29	--	--	--	--	--	--
Lube Oil Range Organics	mg/kg		2000	U 110	U 100	U 110	U 100	710	--	--	U 63	--	U 56	--	U 57	--	--	--	400	--	U 58	--	--	--	--	--	--

Notes:
Additional data discussion in the Remedial Investigation Report (PGG, 2014)
* Total DDE, DDT, DDD based on Table 749-3 comments.

Table 2. Summary of Soil Analytical Results
Sunnyside Municipal Airport, Sunnyside, Washington

Constituent	Units	Table 749-3 Value	CUL	SP-8-40-S	SP-9-18-S	SP-10-18-S	SP-11-18-S	SP-12-122-S	SP-12-144-S	SP-12-18-S	SP-12-230-S	SP-12-40-S	SP-13-18-S	SP-13-40-S	SP-14-18-S	SP-14-40-S	SP-15-18-S	SP-15-40-S	SP-16-12-S	SP-16-18-S	SP-16-40-S	SP-17-18-S	SP-17-40-S	SP-18-2-S	SP-18-6-S
Organochlorine Pesticides (EPA Method 8081A)																									
4,4'-DDD	ug/kg	750 *	335	U 12	U 11	U 11	U 11	U 13	U 13	U 11	U 12	U 12	U 11	U 12	U 11	U 12	U 11	U 12	U 13	U 11	U 12	U 11	U 12	U 12	U 12
4,4'-DDE	ug/kg	**750 ***	446	U 12	100	43	18	U 13	U 13	U 11	U 12	U 12	260	U 12	20	U 12	U 11	12	U 13	U 11	U 12	420	U 12	48	U 12
4,4'-DDT	ug/kg	**750 ***	2941	U 12	U 11	U 11	U 11	U 13	U 13	U 11	U 12	U 12	96	U 12	U 11	U 12	22	66	U 13	U 11	U 12	1300	U 12	140	U 12
Aldrin	ug/kg	100	2.52	U 6.1	U 5.5	U 5.4	U 5.6	U 6.4	U 6.4	U 5.7	U 6.2	U 5.8	U 5.7	U 5.9	U 5.6	U 6.1	U 5.6	U 5.9	U 6.5	U 5.5	U 6	U 5.7	U 6.2	U 6.1	U 6.2
alpha-BHC	ug/kg	6000	0.55	U 6.1	U 5.5	U 5.4	U 5.6	U 6.4	U 6.4	U 5.7	U 6.2	U 5.8	U 5.7	U 5.9	U 5.6	U 6.1	U 5.6	U 5.9	U 6.5	U 5.5	U 6	U 5.7	U 6.2	U 6.1	U 6.2
alpha-Chlordane	ug/kg	1000	2857	U 12	U 11	U 11	U 11	U 13	U 13	U 11	U 12	U 12	U 11	U 12	U 11	U 12	U 11	U 12	U 13	U 11	U 12	U 11	U 12	U 12	U 12
beta-BHC	ug/kg	6000	2.27	U 6.1	U 5.5	U 5.4	U 5.6	U 6.4	U 6.4	U 5.7	U 6.2	U 5.8	U 5.7	U 5.9	U 5.6	U 6.1	U 5.6	U 5.9	U 6.5	U 5.5	U 6	U 5.7	U 6.2	U 6.1	U 6.2
delta-BHC	ug/kg	6000	1.02	U 6.1	U 5.5	U 5.4	U 5.6	U 6.4	U 6.4	U 5.7	U 6.2	U 5.8	U 5.7	U 5.9	U 5.6	U 6.1	U 5.6	U 5.9	U 6.5	U 5.5	U 6	U 5.7	U 6.2	U 6.1	U 6.2
Dieldrin	ug/kg	**70**	2.82	U 12	U 11	U 11	U 11	U 13	U 13	U 11	U 12	U 12	U 11	U 12	U 11	U 12	U 11	U 12	U 13	U 11	U 12	**33**	U 12	U 12	U 12
Endosulfan I	ug/kg		304683	U 6.1	U 5.5	U 5.4	U 5.6	U 6.4	U 6.4	U 5.7	U 6.2	U 5.8	U 5.7	U 5.9	U 5.6	U 6.1	U 5.6	U 5.9	U 6.5	U 5.5	U 6	13	U 6.2	150	U 6.2
Endosulfan II	ug/kg		304683	U 12	U 11	U 11	U 11	U 13	U 13	U 11	U 12	U 12	U 11	U 12	U 11	U 12	U 11	U 12	U 13	U 11	U 12	120	U 12	99	U 12
Endosulfan Sulfate	ug/kg		480000	U 12	U 11	U 11	U 11	U 13	U 13	U 11	U 12	U 12	U 11	U 12	U 11	U 12	U 11	U 12	U 13	U 11	U 12	150	U 12	U 12	U 12
Endrin	ug/kg	200	440	U 12	U 11	U 11	U 11	U 13	U 13	U 11	U 12	U 12	U 11	U 12	U 11	U 12	U 11	U 12	U 13	U 11	U 12	140	U 12	U 12	U 12
Endrin Aldehyde	ug/kg	200	24000	U 12	U 11	U 11	U 11	U 13	U 13	U 11	U 12	U 12	U 11	U 12	U 11	U 12	U 11	U 12	U 13	U 11	U 12	81	U 12	36	U 12
Endrin Ketone	ug/kg	200	8560	U 12	U 11	U 11	U 11	U 13	U 13	U 11	U 12	U 12	U 11	U 12	U 11	U 12	U 11	U 12	U 13	U 11	U 12	48	U 12	U 12	U 12
gamma-BHC	ug/kg	6000	6.21	U 6.1	U 5.5	U 5.4	U 5.6	U 6.4	U 6.4	U 5.7	U 6.2	U 5.8	U 5.7	U 5.9	U 5.6	U 6.1	U 5.6	U 5.9	U 6.5	U 5.5	U 6	**7.6**	U 6.2	**11**	U 6.2
gamma-Chlordane	ug/kg		2857	U 12	U 11	U 11	U 11	U 13	U 13	U 11	U 12	U 12	U 11	U 12	U 11	U 12	U 11	U 12	U 13	U 11	U 12	U 11	U 12	U 12	U 12
Heptachlor	ug/kg	400	3.78	U 6.1	U 5.5	U 5.4	U 5.6	U 6.4	U 6.4	U 5.7	U 6.2	U 5.8	U 5.7	U 5.9	U 5.6	U 6.1	U 5.6	U 5.9	U 6.5	U 5.5	U 6	U 5.7	U 6.2	U 6.1	U 6.2
Heptachlor Epoxide	ug/kg	400	8.02	U 6.1	U 5.5	U 5.4	U 5.6	U 6.4	U 6.4	U 5.7	U 6.2	U 5.8	U 5.7	U 5.9	U 5.6	U 6.1	U 5.6	U 5.9	U 6.5	U 5.5	U 6	**23**	U 6.2	U 6.1	U 6.2
Methoxychlor	ug/kg		64160	U 12	U 11	U 11	U 11	U 13	U 13	U 11	U 12	U 12	U 11	U 12	U 11	U 12	U 11	U 12	U 13	U 11	U 12	420	U 12	U 12	U 12
Toxaphene	ug/kg		153	U 61	U 55	U 54	U 56	U 64	U 64	U 57	U 62	U 58	**360**	U 59	U 56	U 61	U 56	U 59	U 65	U 55	U 60	**13000**	U 62	**1900**	U 62
Chlorinated Herbicides (EPA Method 8151A)																									
2,4,5-T	ug/kg		0.97	U 12	U 10	U 10	U 11	U 12	U 12	U 11	U 12	U 11	U 11	U 11	U 11	U 12	U 11	U 11	U 12	U 10	U 11	U 11	U 12	U 12	U 12
2,4,5-TP (Silvex)	ug/kg		4979	U 12	U 10	U 10	U 11	U 12	U 12	U 11	U 12	U 11	U 11	U 11	U 11	U 12	U 11	U 11	U 12	U 10	U 11	U 11	U 12	U 12	U 12
2,4-D	ug/kg		860	U 12	U 10	U 10	U 11	U 12	U 12	U 11	U 12	U 11	U 11	U 11	U 10	U 11	U 11	U 11	U 12	U 10	U 11	U 11	U 12	12	U 12
2,4-DB	ug/kg		16179	U 12	U 10	U 10	U 11	U 12	U 12	U 11	U 12	U 11	U 11	U 11	U 11	U 12	U 11	U 11	U 12	U 10	U 11	U 11	U 12	U 12	U 12
Dalapon	ug/kg		959	U 280	U 250	U 250	U 260	U 300	U 290	U 260	U 290	U 270	U 260	U 270	U 250	U 280	U 260	U 270	U 300	U 250	U 280	U 260	U 280	U 280	U 290
Dicamba	ug/kg		3258	U 12	U 10	U 10	U 11	U 12	U 12	U 11	U 12	U 11	U 11	U 11	U 10	U 11	U 11	U 11	U 12	U 10	U 11	U 11	U 12	U 11	U 12
Dichlorprop	ug/kg		0.98	U 87	U 78	U 77	U 79	U 91	U 90	U 81	U 88	U 83	U 81	U 83	U 79	U 86	U 80	U 84	U 92	U 78	U 85	U 81	U 88	U 86	U 88
Dinoseb	ug/kg		688	U 12	U 10	U 10	U 11	U 12	U 12	U 11	47	U 11	U 11	U 11	U 11	U 11	74	89	U 12	U 10	U 11	U 11	U 12	U 12	U 12
MCPA	ug/kg		424	U 1100	U 1000	U 1000	U 1000	U 1200	U 1200	U 1100	U 1200	U 1100	U 1100	U 1100	U 1000	U 1100	U 1100	U 1100	U 1200	U 1000	U 1100	U 1100	U 1200	U 1100	U 1200
MCPP	ug/kg		498	U 1100	U 1000	U 1000	U 1000	U 1200	U 1200	U 1100	U 1200	U 1100	U 1100	U 1100	U 1000	U 1100	U 1100	U 1100	U 1200	U 1000	U 1100	U 1100	U 1200	U 1100	U 1200
Pentachlorophenol	ug/kg	3000	3.47	U 5.8	U 5.2	U 5.2	U 5.3	U 6.1	U 6.1	U 5.4	U 5.9	U 5.5	U 5.5	U 5.6	U 5.3	U 5.8	U 5.4	U 5.6	U 6.1	U 5.2	U 5.7	U 5.4	U 5.9	U 5.8	U 5.9
Organophosphorous Pesticides (EPA Method 8270D-SIM)																									
Azinphos-methyl/Guthion	mg/kg		0.005	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Bolstar/Sulprofos	mg/kg		10.28	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Chlorpyrifos/Dursban	mg/kg		43.89	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Coumaphos	mg/kg		0.06	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Demeton-S	mg/kg		3.2	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Diazinon	mg/kg		0.03	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Dichlorvos(DDVP)	mg/kg		3.45	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Dimethoate	mg/kg		0.013	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Disulfoton	mg/kg		0.095	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
EPN	mg/kg		0.024	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Ethoprophos	mg/kg		0.01	U 0.025	U 0.022	U 0.022	U 0.022	**0.11**	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Fenchlorphos/Ronnel	mg/kg		4000	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Fensulfothion	mg/kg		0.06	U 0.061	U 0.055	U 0.054	U 0.056	U 0.064	U 0.064	U 0.057	U 0.062	U 0.058	U 0.057	U 0.059	U 0.056	U 0.061	U 0.056	U 0.059	U 0.065	U 0.055	U 0.06	U 0.057	U 0.062	U 0.061	U 0.062
Fenthion	mg/kg		0.025	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Malathion	mg/kg		2.52	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Merphos&Merphos-oxone	mg/kg		2.21	U 0.061	U 0.055	U 0.054	U 0.056	U 0.064	U 0.064	U 0.057	U 0.062	U 0.058	U 0.057	U 0.059	U 0.056	U 0.061	U 0.056	U 0.059	U 0.065	U 0.055	U 0.06	U 0.057	U 0.062	U 0.061	U 0.062
Mevinphos/Phosdrin	mg/kg		0.025	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Monocrotophos	mg/kg		0.06	U 0.061	U 0.055	U 0.054	U 0.056	U 0.064	U 0.064	U 0.057	U 0.062	U 0.058	U 0.057	U 0.059	U 0.056	U 0.061	U 0.056	U 0.059	U 0.065	U 0.055	U 0.06	U 0.057	U 0.062	U 0.061	U 0.062
Naled	mg/kg		160	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Parathion-ethyl	mg/kg		10.72	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Parathion-methyl	mg/kg		0.45	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Phorate	mg/kg		1.62	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Stirofos/Tetrachlorvinphos	mg/kg		41.7	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Sulfotepp	mg/kg		1.56	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Tokuthion/Prothiofos	mg/kg		98.19	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Trichloronate	mg/kg		0.17	U 0.025	U 0.022	U 0.022	U 0.022	U 0.026	U 0.026	U 0.023	U 0.025	U 0.023	U 0.023	U 0.024	U 0.022	U 0.024	U 0.023	U 0.024	U 0.026	U 0.022	U 0.024	U 0.023	U 0.025	U 0.024	U 0.025
Petroleum Compounds (NWTPH and EPA Method 8260C)																									
Benzene	mg/kg		0.0045	--	--	--	--	0.0032	0.0027	--	U 0.00096	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg		0.052	--	--	--	--	U 0.0047	U 0.0048	--	U 0.0048	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg		0.082	--	--	--	--	0.003	U 0.00096	--	U 0.00096	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylene	mg/kg		4.46	--	--	--	--	0.039	U 0.0019	--	U 0.0019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	mg/kg		0.082	--	--	--	--	0.037	U 0.00096	--	U 0.00096	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg		4.65	--	--	--	--	0.16	0.042	--	U 0.00096	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diesel Range Organics	mg/kg		2000	--	--	--	--	220	U 32	--	U 31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lube Oil Range Organics	mg/kg		2000	--	--	--	--	U 65	U 64	--	U 63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Additional data discussion in the Remedial Investigation Report (PGG, 2014)
* Total DDE, DDT, DDD based on Table 749-3 comments.

Table 2. Summary of Soil Analytical Results
Sunnyside Municipal Airport, Sunnyside, Washington

Constituent	Units	Table 749-3 Value	CUL	SP-19-2-S	SP-19-5-S	SP-20-2-S	SP-20-6-S	SP-21-2-S	SP-21-6-S	SP-22-2-S	SP-22-5-S	SP-23-2-S	SP-23-6-S	SP-24-2-S	SP-24-5-S	SP-26-2-S	SP-26-5-S	SP-27-2-S	SP-27-6-S	SP-28-2-S	SP-29-2-S	SP-30-2-S	SP-30-5-S	SP-31-2-S	SP-31-5-S	SP-37-0.5	SP-38-0.5
Organochlorine Pesticides (EPA Method 8081A)																											
4,4'-DDD	ug/kg	750 *	335	U 11	U 12	U 11	U 11	U 12	U 11	63	U 12	U 11	U 12	U 11	U 12	U 12	U 13	U 11	U 12	U 12	U 12	U 12	U 11	U 12	U 12	180	**14000**
4,4'-DDE	ug/kg	**750 ***	446	U 11	U 12	23	U 11	U 12	U 11	**10000**	50	U 11	U 12	U 11	U 12	270	16	U 11	U 12	U 12	U 12	71	U 11	U 12	U 12	**790**	**17000**
4,4'-DDT	ug/kg	**750 ***	2941	U 11	U 12	U 11	U 11	U 12	U 11	**9900**	21	U 11	U 12	U 11	U 12	180	21	U 11	U 12	U 12	U 12	18	U 11	U 12	U 12	**3600**	**150000**
Aldrin	ug/kg	100	2.52	U 5.6	U 5.9	U 5.6	U 5.3	U 5.8	U 5.5	U 5.5	U 6	U 5.6	U 6.2	U 5.6	U 5.8	U 5.8	U 6.5	U 5.5	U 5.9	U 5.9	U 5.9	U 6.1	U 5.7	U 5.9	U 5.9	U 5.6	U 1100
alpha-BHC	ug/kg	6000	0.55	U 5.6	U 5.9	U 5.6	U 5.3	U 5.8	U 5.5	U 5.5	U 6	U 5.6	U 6.2	U 5.6	U 5.8	U 5.8	U 6.5	U 5.5	U 5.9	U 5.9	U 5.9	U 6.1	U 5.7	U 5.9	U 5.9	U 5.6	U 1100
alpha-Chlordane	ug/kg	1000	2857	U 11	U 12	U 11	U 11	U 12	U 11	U 11	U 12	U 11	U 12	U 11	U 12	U 12	U 13	U 11	U 12	U 12	U 12	U 12	U 11	U 12	U 12	P 15	U 2100
beta-BHC	ug/kg	6000	2.27	U 5.6	U 5.9	U 5.6	U 5.3	U 5.8	U 5.5	U 5.5	U 6	U 5.6	U 6.2	U 5.6	U 5.8	U 5.8	U 6.5	U 5.5	U 5.9	U 5.9	U 5.9	U 6.1	U 5.7	U 5.9	U 5.9	U 5.6	U 1100
delta-BHC	ug/kg	6000	1.02	U 5.6	U 5.9	U 5.6	U 5.3	U 5.8	U 5.5	U 5.5	U 6	U 5.6	U 6.2	U 5.6	U 5.8	U 5.8	U 6.5	U 5.5	U 5.9	U 5.9	U 5.9	U 6.1	U 5.7	U 5.9	U 5.9	U 5.6	U 1100
Dieldrin	ug/kg	**70**	2.82	U 11	U 12	U 11	U 11	U 12	U 11	U 11	U 12	U 11	U 12	U 11	U 12	U 12	U 13	**17**	U 12	U 12	U 12	U 12	U 11	U 12	U 12	U 11	**4100**
Endosulfan I	ug/kg		304683	U 5.6	U 5.9	U 5.6	U 5.3	U 5.8	U 5.5	U 5.5	U 6	U 5.6	U 6.2	U 5.6	U 5.8	U 5.8	U 6.5	U 5.5	U 5.9	U 5.9	U 5.9	U 6.1	U 5.7	U 5.9	U 5.9	79	5000
Endosulfan II	ug/kg		304683	U 11	U 12	U 11	U 11	U 12	U 11	55	U 12	U 11	U 12	U 11	U 12	U 12	U 13	U 11	U 12	U 12	U 12	U 12	U 11	U 12	U 12	190	7400
Endosulfan Sulfate	ug/kg		480000	U 11	U 12	U 11	U 11	U 12	U 11	71	U 12	U 11	U 12	U 11	U 12	U 12	U 13	U 11	U 12	U 12	U 12	U 12	U 11	U 12	U 12	P 82	U 2100
Endrin	ug/kg	200	440	U 11	U 12	U 11	U 11	U 12	U 11	U 11	U 12	U 11	U 12	U 11	U 12	U 12	U 13	U 11	U 12	U 12	U 12	U 12	U 11	U 12	U 12	U 11	U 2100
Endrin Aldehyde	ug/kg	200	24000	U 11	U 12	U 11	U 11	U 12	U 11	210	U 12	U 11	U 12	U 11	U 12	U 12	U 13	U 11	U 12	U 12	U 12	U 12	U 11	U 12	U 12	P 120	P 5900
Endrin Ketone	ug/kg	200	8560	U 11	U 12	U 11	U 11	U 12	U 11	27	U 12	U 11	U 12	U 11	U 12	U 12	U 13	U 11	U 12	U 12	U 12	U 12	U 11	U 12	U 12	U 11	U 2100
gamma-BHC	ug/kg	6000	6.21	U 5.6	U 5.9	U 5.6	U 5.3	U 5.8	U 5.5	U 5.5	U 6	U 5.6	U 6.2	U 5.6	U 5.8	U 5.8	U 6.5	U 5.5	U 5.9	U 5.9	U 5.9	U 6.1	U 5.7	U 5.9	U 5.9	**25**	U 1100
gamma-Chlordane	ug/kg		2857	U 11	U 12	U 11	U 11	U 12	U 11	U 11	U 12	U 11	U 12	U 11	U 12	U 12	U 13	U 11	U 12	U 12	U 12	U 12	U 11	U 12	U 12	P 22	U 2100
Heptachlor	ug/kg	400	3.78	U 5.6	U 5.9	U 5.6	U 5.3	U 5.8	U 5.5	U 5.5	U 6	U 5.6	U 6.2	U 5.6	U 5.8	U 5.8	U 6.5	U 5.5	U 5.9	U 5.9	U 5.9	U 6.1	U 5.7	U 5.9	U 5.9	U 5.6	U 1100
Heptachlor Epoxide	ug/kg	400	8.02	U 5.6	U 5.9	U 5.6	U 5.3	U 5.8	U 5.5	**10**	U 6	U 5.6	U 6.2	U 5.6	U 5.8	U 5.8	U 6.5	U 5.5	U 5.9	U 5.9	U 5.9	U 6.1	U 5.7	U 5.9	U 5.9	P 28	U 1100
Methoxychlor	ug/kg		64160	U 11	U 12	U 11	U 11	U 12	U 11	U 11	U 12	U 11	U 12	U 11	U 12	U 12	U 13	U 11	U 12	U 12	U 12	U 12	U 11	U 12	U 12	P 400	P 15000
Toxaphene	ug/kg		153	U 56	U 59	U 56	U 53	U 58	U 55	**7000**	U 60	U 56	U 62	U 56	U 58	**930**	U 65	**460**	U 59	U 59	U 59	U 61	U 57	U 59	U 59	**12000**	**320000**
Chlorinated Herbicides (EPA Method 8151A)																											
2,4,5-T	ug/kg		0.97	U 11	U 11	U 11	U 10	U 11	U 10	U 10	U 11	U 11	U 12	U 11	U 11	U 11	U 12	U 10	U 11	U 11	U 11	U 12	U 11	U 13	U 11	U 11	U 10
2,4,5-TP (Silvex)	ug/kg		4979	U 11	U 11	U 11	U 10	U 11	U 10	U 10	U 11	U 11	U 12	U 11	U 11	U 11	U 12	U 10	U 11	U 11	U 11	U 12	U 11	U 13	U 11	U 11	P 13
2,4-D	ug/kg		860	U 11	U 11	U 10	U 10	U 11	U 10	U 10	U 11	U 11	U 12	U 11	U 11	U 11	U 12	U 10	U 11	U 11	U 11	U 11	U 11	U 13	U 11	P 21	P 11
2,4-DB	ug/kg		16179	U 11	U 11	U 11	U 10	U 11	U 10	U 10	U 11	U 11	U 12	U 11	U 11	U 11	U 12	U 10	U 11	U 11	U 11	U 12	U 11	U 13	U 11	U 11	140
Dalapon	ug/kg		959	U 260	U 270	U 250	U 240	U 260	U 250	U 250	U 270	U 260	U 280	U 260	U 270	U 260	U 300	U 250	U 270	U 270	U 270	U 280	U 260	U 310	U 270	U 200	U 200
Dicamba	ug/kg		3258	U 11	U 11	U 10	U 10	U 11	U 10	U 10	U 11	U 11	U 12	U 11	U 11	U 11	U 12	U 10	U 11	U 11	U 11	U 11	U 11	U 13	U 11	U 10	U 10
Dichlorprop	ug/kg		0.98	U 80	U 84	U 79	U 75	U 82	U 78	U 78	U 85	U 79	U 88	U 80	U 82	U 81	U 91	U 78	U 83	U 84	U 83	U 86	U 81	U 94	U 84	U 79	U 75
Dinoseb	ug/kg		688	U 11	U 11	U 11	U 10	U 11	U 10	U 10	U 11	U 11	U 12	U 11	U 11	U 11	U 12	U 10	U 11	U 11	U 11	U 11	U 11	U 13	U 11	P 11	330
MCPA	ug/kg		424	U 1100	U 1100	U 1000	U 990	U 1100	U 1000	U 1000	U 1100	U 1000	U 1200	U 1100	U 1100	U 1100	U 1200	U 1000	U 1100	U 1100	U 1100	U 1100	U 1100	U 1200	U 1100	U 2600	U 2500
MCPP	ug/kg		498	U 1100	U 1100	U 1000	U 990	U 1100	U 1000	U 1000	U 1100	U 1000	U 1200	U 1100	U 1100	U 1100	U 1200	U 1000	U 1100	U 1100	U 1100	U 1100	U 1100	U 1200	U 1100	U 1000	U 1000
Pentachlorophenol	ug/kg	3000	3.47	U 5.3	U 5.6	U 5.3	U 5	U 5.5	U 5.2	U 5.2	U 5.7	U 5.3	U 5.9	U 5.4	U 5.5	U 5.5	U 6.1	U 5.2	U 5.6	U 5.6	U 5.6	U 5.8	U 5.4	U 6.3	U 5.6	U 5.3	U 5.1
Organophosphorous Pesticides (EPA Method 8270D-SIM)																											
Azinphos-methyl/Guthion	mg/kg		0.005	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Bolstar/Sulprofos	mg/kg		10.28	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Chlorpyrifos/Dursban	mg/kg		43.89	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Coumaphos	mg/kg		0.06	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Demeton-S	mg/kg		3.2	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Diazinon	mg/kg		0.03	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Dichlorvos(DDVP)	mg/kg		3.45	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Dimethoate	mg/kg		0.013	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	**0.4**	**3.3**	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Disulfoton	mg/kg		0.095	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	0.028	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
EPN	mg/kg		0.024	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Ethoprophos	mg/kg		0.01	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Fenchlorphos/Ronnel	mg/kg		4000	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Fensulfothion	mg/kg		0.06	U 0.056	U 0.059	U 0.056	U 0.053	U 0.058	U 0.055	U 0.055	U 0.06	U 0.056	U 0.062	U 0.056	U 0.058	U 0.058	U 0.065	U 0.055	U 0.059	U 0.059	U 0.059	U 0.061	U 0.057	U 0.067	U 0.059	--	--
Fenthion	mg/kg		0.025	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Malathion	mg/kg		2.52	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Merphos&Merphos-oxone	mg/kg		2.21	U 0.056	U 0.059	U 0.056	U 0.053	U 0.058	U 0.055	0.087	U 0.06	U 0.056	U 0.062	U 0.056	U 0.058	U 0.058	U 0.065	U 0.055	U 0.059	U 0.059	U 0.059	U 0.061	U 0.057	U 0.067	U 0.059	--	--
Mevinphos/Phosdrin	mg/kg		0.025	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Monocrotophos	mg/kg		0.06	U 0.056	U 0.059	U 0.056	U 0.053	U 0.058	U 0.055	U 0.055	U 0.06	U 0.056	U 0.062	U 0.056	U 0.058	U 0.058	U 0.065	U 0.055	U 0.059	U 0.059	U 0.059	U 0.061	U 0.057	U 0.067	U 0.059	--	--
Naled	mg/kg		160	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Parathion-ethyl	mg/kg		10.72	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Parathion-methyl	mg/kg		0.45	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Phorate	mg/kg		1.62	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Stirofos/Tetrachlorvinphos	mg/kg		41.7	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Sulfotepp	mg/kg		1.56	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Tokuthion/Prothiofos	mg/kg		98.19	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Trichloronate	mg/kg		0.17	U 0.022	U 0.024	U 0.022	U 0.021	U 0.023	U 0.022	U 0.022	U 0.024	U 0.022	U 0.025	U 0.023	U 0.023	U 0.023	U 0.026	U 0.022	U 0.023	U 0.024	U 0.024	U 0.024	U 0.023	U 0.027	U 0.024	--	--
Petroleum Compounds (NWTPH and EPA Method 8260C)																											
Benzene	mg/kg		0.0045	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	mg/kg		0.052	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	mg/kg		0.082	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylene	mg/kg		4.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	mg/kg		0.082	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/kg		4.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diesel Range Organics	mg/kg		2000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lube Oil Range Organics	mg/kg		2000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Additional data discussion in the Remedial Investigation Report (PGG, 2014)
* Total DDE, DDT, DDD based on Table 749-3 comments.

Table 3. Summary of Groundwater Monitoring Well Results
Sunnyside Municipal Airport, Sunnyside, Washington

Constituent	Units	Cleanup Level	SMW-1 3/31/2014	SMW-1 8/26/2015	SMW-1 4/12/2017	SMW-1 7/31/2017	SMW-1 10/30/2017	SMW-1 1/31/2018	SMW-1 4/17/2025	SMW-1 5/28/2025	SMW-2 3/31/2014	SMW-2 8/26/2015	SMW-2 4/12/2017	SMW-2 7/31/2017	SMW-2 10/30/2017	SMW-2 1/31/2018	SMW-2 4/17/2025	SMW-2 5/28/2025	SMW-3 3/31/2014	SMW-3 8/26/2015	SMW-3 4/12/2017	SMW-3 7/31/2017	SMW-3 10/30/2017	SMW-3 1/31/2018	SMW-3 4/17/2025	SMW-3 5/28/2025	SMW-4 12/23/2015	SMW-4 4/12/2017	SMW-4 7/31/2017	SMW-4 10/30/2017	SMW-4 1/31/2018	SMW-4 4/17/2025	SMW-4 5/28/2025
Field Parameters																																	
Depth to Water	feet		10.56	10.32	9.28	9.48	9.57	9.81	10.24	10.39	10.95	10.56	9.65	9.66	9.91	10.16	10.63	10.73	10.26	10.08	8.91	9.29	9.29	9.48	9.96	10.15	9.42	9.36	9.51	9.53	9.74	10.19	10.22
Oxidation-Reduction Potential	mV		159	145	--	--	--	-86.1	185.4	161.4	130	159	--	--	--	-22.2	154.1	186.4	185	135	--	--	--	-19.3	186.6	161.7	-20	--	--	--	-35.7	185	131.7
pH, Field	std.		7.74	7.46	7.2	7.17	7.09	7.54	7.31	7.19	7.69	7.37	6.8	7.23	7.15	7.11	7.33	7.14	7.5	7.33	6.8	7.18	7.07	7.05	7.29	7.11	7.59	6.9	7.44	7.45	7.36	7.47	7.42
Specific Conductivity	umhos/cm		926	904	--	1114	1141	1389	1066	780	1005	1010	--	837	943	1092	939	819	2580	2650	--	1529	1570	2030	2285	1723	662.6	--	777	802	899.4	827	619
Temperature	degrees C		14.3	20.07	13.4	18.9	18.7	15	13.91	14.9	14.9	18.23	13.9	18	17.6	15.2	15.55	15.6	14.6	18.43	13.7	19	17.3	14.7	14.67	15.6	13.7	14.5	18.5	15.7	14.2	15.39	15.8
Nitrate Results																																	
Nitrate as N	mg/L as N	*10*	--	**39**	**100**	**120**	**110**	**120**	**65**	**56**	--	**28**	**54**	**41**	**47**	**64**	**54**	**67**	--	**190**	**160**	**150**	**170**	**60**	**220**	**180**	**11**	**20**	**13**	**17**	**14**	**15**	**14**
Nitrite as N	mg/L as N	*1*	--	0.02U	--	--	--	--	--	--	--	0.02U	--		--	--	--	--	--	0.65	--	--	--	--	--	--	0.086	--	--	--	--	--	--
Petroleum Compounds																																	
Benzene	ug/L	*0.8*	0.2U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diesel Range Organics	mg/L	*0.5*	0.26U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.67**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/L	*6*	0.2U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lube Oil	mg/L	*0.5*	U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.41U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylene	ug/L	*9*	0.4U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.4U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	ug/L	*9*	0.2U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/L	*640*	1U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Organochlorine Pesticides																																	
4,4'-DDD	ug/L	*0.365*	0.043P	0.0048U	U 0.0047	0.0051UZ	0.0052 U	0.0048U	0.005U	0.033U	0.0047U	0.005U	0.04	0.019Z	0.045	0.028	0.0085	0.0095U	0.04P	0.0049U	0.042	0.018PZ	0.028P	0.3P	0.0052U	0.024U	0.0048U	U 0.0047	0.0049U	0.0053 U	0.0048U	0.0051U	0.0047U
4,4'-DDE	ug/L	*0.257*	0.058P	0.0048U	U 0.0047	0.0051UZ	0.13	0.0048U	0.0082	0.0048U	0.03P	0.005U	0.034	0.005UZ	0.0052 U	0.0049U	0.0051U	0.0048U	0.074P	0.0049U	0.19	0.0048UZ	0.19P	0.0048U	0.0061	0.014U	0.0048U	U 0.0047	0.0049U	0.0053 U	0.0048U	0.0051U	0.0047U
4,4'-DDT	ug/L	*0.257*	0.034P	0.033	0.099	0.071PZ	0.1P	0.11	0.047	0.054	0.12P	0.08	0.061	0.022Z	0.0052 U	0.04	0.014	0.054	0.042P	0.0049U	0.14	0.0048UZ	0.13P	0.0048U	0.0052U	0.038U	0.0048U	U 0.0047	0.0049U	0.0053 U	0.0048U	0.0051U	0.0047U
Aldrin	ug/L	*0.005*	0.01P	**0.011**	U 0.0047	**0.051Z**	0.0052 U	**0.053P**	0.0032	0.024U	0.0047U	**0.02**	U 0.0047	0.005UZ	0.0052 U	0.0049U	0.002U	0.0048U	0.0048U	0.0049U	U 0.0047	0.0048UZ	**0.08**	**0.053**	**0.041**	0.017U	0.0048U	U 0.0047	0.0049U	0.0053 U	0.0048U	**0.0057**	0.0071U
alpha-BHC	ug/L	*0.014*	0.018P	0.0048U	**0.041**	**0.036Z**	**0.06**	**0.047**	**0.022**	**0.03**	0.0047U	0.005U	0.0065	0.005UZ	0.0058P	0.0049U	0.0051U	0.0052	**0.057**	**0.12**	**0.059**	**0.04Z**	0.0053 U	0.0048U	**0.017**	**0.035**	0.0048U	U 0.0047	0.0049U	0.0053 U	0.0048U	0.0051U	0.0047U
alpha-Chlordane	ug/L	*0.25*	0.074P	0.023	U 0.0047	0.056PZ	0.09	0.14	0.021	0.033U	0.0047U	0.005U	U 0.0047	0.0051PZ	0.0052 U	0.013P	0.0051U	0.012U	0.045P	0.032	U 0.0047	0.022PZ	0.069P	0.032P	0.034	0.024U	0.0048U	U 0.0047	0.0049U	0.0053 U	0.0048U	0.0051U	0.0047U
beta-BHC	ug/L	*0.049*	0.005U	0.0048U	U 0.0047	0.0051UZ	0.0052 U	0.0048U	0.005U	0.0048U	0.0047U	0.005U	U 0.0047	0.005UZ	0.0052 U	0.0049U	0.0051U	0.0048U	0.0048U	0.0049U	U 0.0047	0.0048UZ	0.0053 U	0.0048U	0.0052U	0.0048U	0.0048U	U 0.0047	0.0049U	0.0053 U	0.0048U	0.0051U	0.0047U
delta-BHC	ug/L	*0.005*	**0.25**	0.0048U	U 0.0047	**0.11PZ**	0.0052 U	0.0048U	0.005U	**0.11**	**0.0054P**	0.005U	**0.0094**	**0.07PZ**	0.0052 U	0.0049U	0.0051U	0.0048U	0.0048U	0.0049U	**0.029**	0.0048UZ	0.0053 U	0.0048U	0.0052U	0.014U	0.0048U	U 0.0047	0.0049U	0.0053 U	0.0048U	0.0051U	0.0047U
Dieldrin	ug/L	*0.005*	**0.26**	**0.042**	**0.077**	**0.025PZ**	**0.055P**	**0.074P**	0.005U	**0.065**	**0.11P**	0.005U	**0.044**	**0.016PZ**	**0.041**	**0.034**	0.0051U	0.014U	**0.099P**	**0.13**	**0.17**	**0.13Z**	**0.26**	0.15P	0.0052U	0.086U	0.0048U	U 0.0047	0.0049U	0.0053 U	0.0048U	0.0051U	0.0047U
Endosulfan I	ug/L	*96*	1.6	0.03	0.07	0.074Z	0.0052 U	0.067P	0.005U	0.032	0.033P	0.005U	0.021	0.012PZ	0.0052 U	0.095P	0.0051U	0.071U	0.0048U	0.0049U	0.11	0.076PZ	0.0053 U	0.064P	0.0052U	0.043U	0.0048U	U 0.0047	0.0049U	0.0053 U	0.0048U	0.0051U	0.0047U
Endosulfan II	ug/L	*96*	0.67	0.064	0.072	0.044Z	0.25	0.17P	0.005U	0.019U	0.085	0.019	0.031	0.017Z	0.053	0.036	0.0051U	0.024U	0.14	0.083	0.12	0.0092PZ	0.47	0.27P	0.0052U	0.14U	0.0048U	U 0.0047	0.0078	0.0053 U	0.0048U	0.0051U	0.0047U
Endosulfan Sulfate	ug/L	*96*	0.14	0.0071	U 0.0047	0.0051UZ	0.0052 U	0.0048U	0.005U	0.024U	0.0047U	0.026	U 0.0047	0.005UZ	0.0052 U	0.0049U	0.0051U	0.0095U	0.0048U	0.21	0.062	0.0048UZ	0.15P	0.0048U	0.0052U	0.15	0.0048U	0.0053	0.0064	0.0053 U	0.0048U	0.0051U	0.0047U
Endrin	ug/L	*2*	0.005U	0.0048U	0.03	0.058Z	0.06	0.061	0.069	0.075	0.0047U	0.005U	U 0.0047	0.005UZ	0.0052 U	0.0049U	0.0051U	--	0.0048U	0.0049U	0.069	0.039PZ	0.081P	0.087P	0.087	0.062U	0.0048U	U 0.0047	0.0049U	0.0053 U	0.0048U	0.0051U	0.0047U
Endrin Aldehyde	ug/L	*2*	0.099P	0.0048U	0.12	0.0051UZ	0.15P	0.0048U	0.005U	0.033U	0.033P	0.005U	U 0.0047	0.015PZ	0.0052 U	0.0049U	0.0051U	0.024U	0.0048U	0.0049U	0.24	0.0048UZ	0.077P	0.0048U	0.0052U	0.014U	0.0048U	U 0.0047	0.0049U	0.0053 U	0.0048U	0.0051U	0.0047U
Endrin Ketone	ug/L	*2*	0.045P	0.019U	0.073	0.02UZ	0.021 U	0.019U	0.01U	0.024U	0.12P	0.17	0.11	0.097Z	0.17P	0.1P	0.074	0.13	0.019U	0.02U	U 0.019	0.019UZ	0.021 U	0.019U	0.047	0.019U	0.019U	U 0.019	0.02U	0.021 U	0.019U	0.01U	0.0047U
gamma-BHC	ug/L	*0.2*	0.15P	0.0048U	U 0.0047	0.14PZ	**0.21P**	0.0048U	0.046	0.029U	0.018P	0.005U	U 0.0047	0.013PZ	0.0052 U	0.025P	0.007	0.0095U	0.0048U	0.0049U	U 0.0047	0.11PZ	0.21P	0.14P	0.08	0.12	0.0048U	U 0.0047	0.0049U	0.0053 U	0.0052P	0.0051U	0.0047U
gamma-Chlordane	ug/L	*0.25*	0.039P	0.0048U	U 0.0047	0.0051UZ	0.0052 U	0.0048U	0.005U	0.024U	0.0047U	0.005U	U 0.0047	0.005UZ	0.0052 U	0.0049U	0.0051U	0.0048U	0.0048U	0.0099U	U 0.0047	0.0048UZ	0.0053 U	0.0048U	0.0052U	0.077U	0.0048U	U 0.0047	0.0049U	0.0053 U	0.0048U	0.0051U	0.0047U
Heptachlor	ug/L	*0.019*	0.015	0.0067	U 0.0047	**0.028PZ**	0.0052 U	0.0048U	0.014	0.0048U	0.0047U	0.005U	U 0.0047	0.005UZ	0.0052 U	0.0049U	0.0051U	0.0048U	0.0048U	**0.19**	U 0.0047	0.0048UZ	0.0053 U	0.0048U	0.0052U	0.0096U	0.0048U	U 0.0047	0.013P	0.0053 U	0.0048U	0.0051U	0.0047U
Heptachlor Epoxide	ug/L	*0.005*	0.005U	0.0048U	U 0.0047	0.0051UZ	0.0052 U	0.0048U	0.005U	**0.0096**	0.0047U	0.005U	U 0.0047	0.005UZ	0.0052 U	0.0049U	0.0051U	0.0095U	0.0048U	0.0049U	U 0.047	0.0048UZ	0.0053 U	0.0048U	0.0052U	0.019U	0.0048U	U 0.0047	0.0049U	0.0053 U	0.0048U	0.0051U	0.0047U
Methoxychlor	ug/L	*40*	0.01U	0.18	U 0.0094	0.01UZ	0.01 U	0.0095U	0.01U	0.076U	0.0094U	0.067	U 0.0093	0.051PZ	0.047P	0.0098U	0.01U	0.019U	0.0097U	0.15	U 0.0093	0.36Z	0.011 U	0.93P	0.89	0.6U	0.0096U	U 0.0094	0.0099U	0.011 U	0.0096U	0.01U	0.0047U
Toxaphene	ug/L	*0.08*	**22**	0.048U	U 9.4	5.1UZ	10 U	4.8U	0.05U	**5.4**	**9.2**	0.05U	U 7.5	2.5UZ	10 U	4.9U	0.051U	**3.5**	**9.8**	0.049U	U 19	4.8UZ	20 U	4.8U	0.052U	**7.4**	0.048U	U 0.47	0.49U	0.53 U	0.048U	0.051U	0.095U

Table 3. Summary of Groundwater Monitoring Well Results
Sunnyside Municipal Airport, Sunnyside, Washington

Constituent	Units	Cleanup Level	SMW-1 3/31/2014	SMW-1 8/26/2015	SMW-1 4/12/2017	SMW-1 7/31/2017	SMW-1 10/30/2017	SMW-1 1/31/2018	SMW-1 4/17/2025	SMW-1 5/28/2025	SMW-2 3/31/2014	SMW-2 8/26/2015	SMW-2 4/12/2017	SMW-2 7/31/2017	SMW-2 10/30/2017	SMW-2 1/31/2018	SMW-2 4/17/2025	SMW-2 5/28/2025	SMW-3 3/31/2014	SMW-3 8/26/2015	SMW-3 4/12/2017	SMW-3 7/31/2017	SMW-3 10/30/2017	SMW-3 1/31/2018	SMW-3 4/17/2025	SMW-3 5/28/2025	SMW-4 12/23/2015	SMW-4 4/12/2017	SMW-4 7/31/2017	SMW-4 10/30/2017	SMW-4 1/31/2018	SMW-4 4/17/2025	SMW-4 5/28/2025
Organophosphorus Pesticides																																	
Azinphos-methyl	ug/L	*0.5*	0.52U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.5U	0.48U	0.48U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.49U	0.48U	0.47U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.5U	0.47U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.5U	0.47U
Bolstar (Sulprofos)	ug/L	*0.2*	0.21U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U
Chlorpyrifos	ug/L	*48*	0.21U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U
Coumaphos	ug/L	*0.2*	0.21U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U
Demeton-S	ug/L	*0.64*	0.21U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.14U	0.13U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.14U	0.13U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.15U	0.13U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.14U	0.13U
Diazinon	ug/L	*0.2*	0.21U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U
Dichlorvos (DDVP)	ug/L	*0.2*	0.21U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U
Dimethoate	ug/L	*3.2*	0.52U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.5U	0.48U	0.48U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.49U	0.48U	0.47U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.5U	0.47U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.5U	0.47U
Disulfoton (Di-Syston)	ug/L	*0.64*	0.21U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U	**1.5**	**3.56**	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U
EPN	ug/L	*0.2*	0.21U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U
Ethoprop	ug/L	*0.2*	0.21U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U
Fensulfothion	ug/L	*0.5*	0.52U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.5U	0.48U	0.48U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.49U	0.48U	0.47U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.5U	0.47U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.5U	0.47U
Fenthion	ug/L	*0.2*	0.21U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U
Malathion	ug/L	*320*	0.21U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U
Merphos	ug/L	*0.5*	0.52U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.5U	0.48U	0.48U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.49U	0.48U	0.47U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.5U	0.47U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.5U	0.47U
Methyl Parathion	ug/L	*4*	0.21U	0.5U	U 0.2	0.2U	0.2 U	0.2U	--	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	--	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	--	0.19U	0.087U	U 0.2	0.2U	0.2 U	0.2U	--	0.19U
Monocrotophos	ug/L	*0.5*	0.52U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.5U	0.48U	0.48U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.49U	0.48U	0.47U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.5U	0.47U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.5U	0.47U
Phorate	ug/L	*3.2*	0.21U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U
Sulfotepp	ug/L	*8*	0.21U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U
Tetrachlorvinphos (Gardona)	ug/L	*3.65*	0.21U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U
Tokuthion	ug/L	*0.2*	0.21U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U
Trichloronate	ug/L	*0.2*	0.21U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U	0.19U	0.5U	U 0.2	0.2U	0.2 U	0.2U	0.21U	0.19U	0.087U	U 0.2	0.2U	0.2 U	0.2U	0.2U	0.19U
Chlorinated Herbicides																																	
2,4,5-T	ug/L	*0.024*	0.05U	**0.1**	U 0.069	0.069U	0.074 U	0.074U	0.193U	0.197U	0.046U	0.047U	U 0.071	0.069U	0.074 U	0.074U	0.199U	0.2U	0.047U	**0.15**	U 0.071	0.073U	0.074 U	0.075U	0.2U	0.196U	0.046U	U 0.071	0.07U	0.074 U	0.075U	0.2U	0.198U
2,4-D	ug/L	*70*	1.1P	0.3	U 0.091	0.091U	0.098 U	0.098U	0.193U	0.197U	0.046U	0.046U	U 0.094	0.092U	0.098 U	0.098U	0.199U	0.2U	1.4	0.23	U 0.094	0.096U	0.097 U	0.099U	0.2U	0.196U	0.045U	U 0.093	0.092U	0.097 U	0.1U	0.2U	0.198U
2,4-DB	ug/L	*128*	0.074U	0.071U	U 0.069	0.069U	0.074 U	0.074U	0.483U	0.491U	0.07U	0.078	U 0.071	0.069U	0.074 U	0.074U	0.497U	0.499U	2.3P	2.1	U 0.071	0.073U	0.074 U	0.075U	0.499U	0.491U	0.069U	U 0.07	0.07U	0.074 U	0.075U	0.499U	0.496U
Dalapon	ug/L	*200*	0.24U	0.46U	U 0.45	0.44U	0.48 U	0.48U	1.16U	1.18U	0.22U	0.45U	U 0.46	0.45U	0.48 U	0.48U	1.19U	1.2U	0.23U	0.45U	U 0.46	0.47U	0.47 U	0.49U	1.2U	1.18U	0.44U	U 0.45	0.45U	0.48 U	0.49U	1.2U	1.19U
Dicamba	ug/L	*480*	0.025U	0.047U	U 0.046	0.046U	0.049 U	0.049U	0.193U	0.197U	0.023U	0.046U	U 0.047	0.046U	0.049 U	0.049U	0.199U	0.2U	0.33	1.2	0.22	0.73	0.15	0.061P	0.2U	0.364	0.045U	0.33	0.36	0.28	0.17	0.2U	0.198U
Dichlorprop	ug/L	*0.025*	0.049U	0.047U	U 0.046	0.046U	0.049 U	0.049U	0.193U	0.197U	0.046U	0.046U	U 0.047	0.046U	0.049 U	0.049U	0.199U	0.2U	**0.12P**	0.047U	U 0.047	0.048U	0.049 U	0.05U	0.2U	0.196U	0.046U	U 0.047	0.046U	0.049 U	0.05U	0.2U	0.198U
Dinoseb	ug/L	*7*	0.37	0.14	0.43	0.23	0.3	0.36	1.45U	1.47U	1.6	0.21	**460**	**48**	**180**	**32**	1.49U	1.5U	**210**	**340**	**19**	**87**	**12**	**7.8**	4.19	3.89	3	**21**	6.8	**9.2**	**8.2**	**15.3**	4.94
MCPA	ug/L	*8*	7.4U	7U	**28**	6.8U	7.3 U	7.3U	1.93U	1.97U	6.9U	6.9U	U 7	6.8U	7.3 U	7.3U	1.99U	2U	**20P**	**32**	U 7	7.2U	7.3 U	7.4U	2U	1.96U	6.8U	U 7	6.9U	7.3 U	7.4U	2U	1.98U
MCPP	ug/L	*16*	4.9U	4.7U	U 6.8	6.8U	7.3 U	7.3U	1.93U	1.97U	4.6U	4.6U	U 7	6.8U	7.3 U	7.3U	1.99U	2U	**130P**	**110**	U 7	7.2U	7.3 U	7.4U	2U	1.96U	4.5U	U 7	6.9U	7.3 U	7.4U	2U	1.98U
Pentachlorophenol	ug/L	*0.219*	0.01U	0.0095U	U 0.0092	0.0092U	0.0099 U	0.0099U	--	--	0.0093U	0.0093U	U 0.0095	0.0093U	0.0099 U	0.0099U	--	--	0.029P	0.0094U	U 0.0095	0.0097U	0.0098 U	0.01U	--	--	0.0092U	U 0.0094	0.0093U	0.0098 U	0.01U	--	--
Silvex	ug/L	*50*	0.05U	0.1	U 0.046	0.046U	0.15	0.14	0.386U	0.393U	0.047U	0.047U	U 0.048	0.046U	0.05 U	0.05U	0.398U	0.399U	0.088P	0.24	U 0.047	0.049U	0.14P	0.11P	0.399U	0.393U	0.046U	U 0.047	0.047U	0.049 U	0.05U	0.399U	0.397U

Notes:
Bold indicates exceedance of the cleanup level
Additional direct push data are available in the Remedial Investigation report (PGG, 2014)

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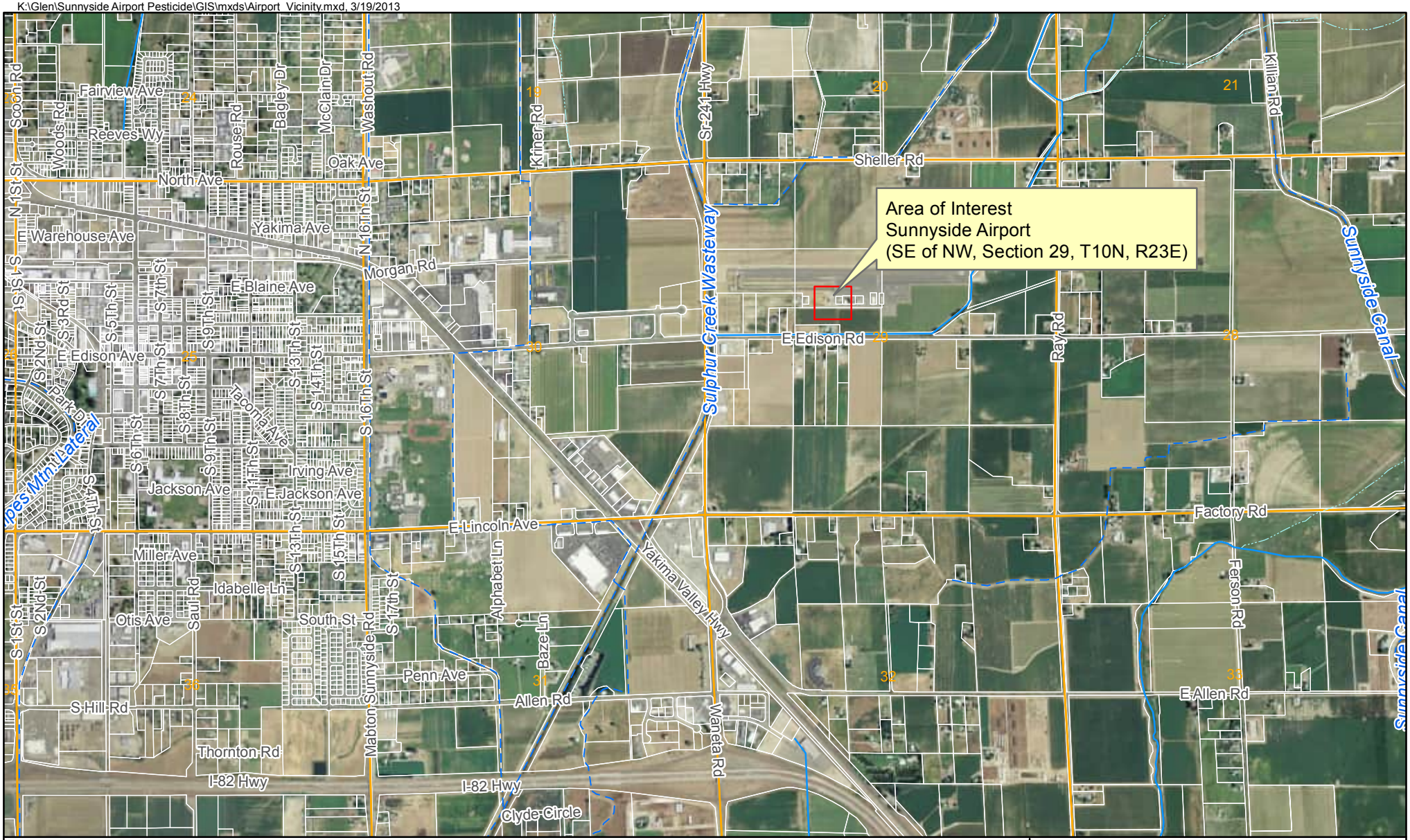

Figure 1
Sunnyside Airport Vicinity

Figure 2
Site Layout

Sunnyside Airport Pesticide Spray Shed
Focused Feasibility Study

PgG

SP-40
SP-30
SP-34
SP-28
SP-31
SP-26
SP-27
SP-25 Archive
SP-18
SP-29
SMW-1
SP-2
SP-21
SP-1
SP-38
SP-37
SP-39
SMA S002
SP-24
SMA S001
SP-17
SP-3
SP-4
SP-15
SP-16
SP-6
SP-5
SMW-2
SP-19
SMW-3
SP-32
SP-23
SP-22
Groundwater Flow Direction
SP-14
SP-13
SMA S003
SP-7
SP-20
SMA S004
SP-8
SP-12
SP-11
SP-10
SP-36
SMW-4
SP-9

- Monitoring Well
- Direct Push Location
- Airport Parcels
- Former Pesticide Shed
- Existing & Historic Building Outlines
- Debris Observed During Construction

0 Feet 50

N

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Figure 3

Selected Remedial Action: Containment with Groundwater Monitoring

Sunnyside Municipal Airport
Focused Feasibility Study

PgG

SP-40
SP-30
SP-34
SP-28
SP-31
Excavate to 1 ft bgs
SP-26
Repair Existing Asphalt
SP-27
SP-25 Archive
SP-18
SP-29
SMW-1
SP-2
SP-1
SP-38
SP-37
SP-21
SP-39
SMA S002
SP-24
SMA S001
SP-17
SP-3
SP-4
SP-15
SP-16
SP-6
SP-5
Excavate to 1 ft bgs
SMW-2
SMW-3
SP-19
SP-32
SP-35
SP-23
SP-22
SP-14
SP-13
SMA S003
SP-7
SP-20
Contaminated interval below water table.
SMA S004
SP-8
SP-12
SP-11
SP-10
SP-36
SMW-4
SP-9

- Monitoring Well
- Direct Push Location
- Airport Parcels
- Former Pesticide Shed
- Existing & Historic Building Outlines
- Anomaly Outline
- Debris Observed During Construction
- Extent of soil exceeding cleanup levels 0-5 ft bgs
- Extent of soil exceeding cleanup levels below 5 ft bgs
- Extent of groundwater exceeding pesticide and herbicide cleanup levels.
- Extent of groundwater exceeding nitrate background levels. (approximate)
- Extent of new asphalt cap.

Brown shaded areas indicate the extent of soil excavation areas. Excavation depths vary as labeled in each excavation area.

0 Feet 50

N

Aerial Photo from Yakima County 2011

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Appendix A. Spring 2025 Groundwater Monitoring Data Report

MOTT MACDONALD

Sunnyside Municipal Airport Spring 2025 Groundwater Monitoring Report

Facility/Site ID: 20367

Cleanup/Site ID: 11423

June 24, 2025

Dear Mary,

This letter reports analytical results for the April 2025 and May 2025 groundwater monitoring events at the Sunnyside Municipal Airport Pesticide Spray Shed Site located in Sunnyside, Washington. These groundwater monitoring events are part of the Interim Groundwater Monitoring Plan for the site (PGG, 2107), with samples collected in preparation for the finalization of the Updated Focused Feasibility Study and Draft Cleanup Action Plan and reported in the Draft Cleanup Action Plan.

Mary Monahan / Washington Department of Ecology
1250 W. Alder St.
Union Gap, WA 98903-0009

Sunnyside Municipal Airport Pesticide Spray Shed Site
518300032

Mott MacDonald
1601 5th Avenue
Suite 800
Seattle
WA 98101
United States of America

T +1 (206) 838 2886
mottmac.com

Summary

Key results from the April 2025 monitoring event include:

- SMW-1 exceeded cleanup levels for nitrate, aldrin, and alpha-BHC.
- SMW-2 exceeded cleanup levels for nitrate.
- SMW-3 exceeded cleanup levels for nitrate, aldrin, and alpha-BHC.
- SMW-4 exceeded cleanup levels for nitrate, aldrin, and dinoseb.

Key results from the May 2025 monitoring event include:

- SMW-1 exceeded cleanup levels for nitrate, alpha-BHC, delta-BHC, dieldrin, heptachlor epoxide, and toxaphene.
- SMW-2 exceeded cleanup levels for nitrate and alpha-BHC.
- SMW-3 exceeded cleanup levels for nitrate, alpha-BHC, and toxaphene.
- SMW-4 exceeded cleanup levels for nitrate.

Toxaphene concentrations were below cleanup levels in April sampling but elevated well above cleanup levels in May sampling. It is recommended that for future monitoring, the laboratory should be alerted to inconsistencies in toxaphene data and additional quality assurance needed to confirm toxaphene detection such as matrix spike/matrix spike duplicate.

Groundwater Sampling and Water Levels

Depth to water was measured in the field at wells SMW-1, SMW-2, SMW-3, and SMW-4 on April 17, 2025 and May 28, 2025 (Table 1). Figure 1 and Figure 2 show the locations of the monitoring wells with the corresponding water level elevations and groundwater flow direction indicated by wells screened in the upper silt unit. SMW-1, SMW-2, and SMW-3 are screened at the water table in the upper silt unit, and SMW-4 is screened in the deeper sand and gravel unit. Flow directions are generally to the southwest, consistent with regional groundwater flow directions. The hydraulic gradient calculated from water table wells is approximately 0.007 to the southwest.

Wells were purged and groundwater samples were collected using low-flow sampling methods consistent with the sampling plan (PGG, 2013). For both sampling events a field duplicate was collected from well SMW-2 and given the Sample ID of SMW-12.

Groundwater samples were tested for pH, temperature, and turbidity in the field. Turbidity readings were measured in normal tephelometric units (NTU) at the time of sampling, with values below 10 NTU for all four wells. Collected samples were placed into coolers with ice and shipped to OnSite Environmental in Redmond, WA. A chain-of-custody form was maintained until delivery to the analytical laboratory.

Analytical Results

The groundwater samples were analyzed for nitrate, organochlorine pesticides, organophosphorous pesticides, and chlorinated herbicides. Analytical results are included in the attached Table 2.

Nitrate

- Nitrate concentrations ranged from 14 to 220 mg/L, exceeding the cleanup level of 10 mg/L in all samples. Regional background nitrate concentrations are elevated and detections in the sand and gravel unit (14 and 15 mg/L) are consistent with background concentrations. Detections in the silt unit (54 to 220 mg/L) are above regional background concentrations.

Organochlorine Pesticides

- Cleanup level exceedances for aldrin were measured in samples from wells SMW-3 and SMW-4, both in the April sampling event only. Both were non-detect in the May sampling results.
- Cleanup level exceedances for alpha-BHC were measured in SMW-1 and SMW-3 for both the April and May sampling events, and for SMW-2 in the May sampling event.
- Cleanup level exceedances for delta-BHC, dieldrin, and heptachlor epoxide were measured in only SMW-1 from the May sampling event.
- Cleanup level exceedances for toxaphene were measured in SMW-1, SMW-2, and SMW-3 in the May sampling event.

Organophosphorus Pesticides

- All organophosphorus pesticide results were non-detect.

Chlorinated Herbicides

- A cleanup level exceedance for dinoseb was measured in SMW-4 in the April sampling event.

No other cleanup level exceedances were measured in the collected samples. However, some analytical results for some samples were not detected at practical quantitation limits (PQLs) that exceed the cleanup levels (aldrin, dieldrin, heptachlor epoxide, 2,4,5-T, dichloroprop, and EPN). Table 2 displays cleanup levels and PQL analytical results. All other results have PQLs below the cleanup levels, or marginally exceeding the cleanup levels (for example, a PQL of 0.21 ug/L with a cleanup level 0.2 ug/L). Refer to Table 2 for cleanup levels and PQLs for non-detected results.

Quality Assurance/Quality Control (QA/QC)

Quality Assurance/Quality Control (QA/QC) data were reviewed to assess the validity of the April and May 2025 analytical results. The QA/QC review is summarized below:

- All samples were received within acceptable temperature range.
- All chain-of-custody forms were complete.
- All samples were analyzed for the requested analytical methods and within applicable holding times.
- OnSite subcontracted chlorinated herbicide analyses to Alliance Technical Group.
- All method blanks were non-detect.
- All field duplicate relative percent differences were within control limits.
- All surrogate spike recoveries were within control limits.
- Four analytes were outside the percent recovery in the laboratory control sample in the May analytical report for chlorinated herbicides. All other laboratory control samples were within control limits.
- One organophosphorus pesticide analyte (Malthion) was outside the matrix spike and matrix spike duplicate recovery limits in the April analytical report. Mathion was non-detect in all samples from April and May. One chlorinated herbicide (dinoseb) was outside the matrix spike recovery limit in the May analytical report. Dinoseb concentrations from the May sampling event may be low-biased. Multiple chlorinated herbicide analytes were outside the matrix spike recovery in the May sampling results; a duplicate analysis was performed and recovered within range.
- During future monitoring, the analytical laboratory should be alerted regarding inconsistencies in toxaphene measurements between April and May 2025 data and added quality control is recommended such as matrix spike/matrix spike duplicates for toxaphene.

The data were generally determined to be acceptable for the intended purpose.

We trust this information meets your needs. Please feel free to contact us if you have any additional questions or comments.

Respectfully submitted,

Janet Knox
Senior Vice President
+12063291893

janet.knox@mottmac.com
janet@stratageosciences.com

David Wampler
Project Geologist
david.wampler@mottmac.com
david@stratageosciences.com

Attachments:

Table 1. Water Level Elevations

Table 2. Summary of Groundwater Monitoring Well Results

Figure 1. Groundwater Elevations and Monitoring Wells, April 17, 2025

Figure 2. Groundwater Elevations and Monitoring Wells, May 28, 2025

Attachment 1. Field Sheets

Attachment 2. Laboratory Analytical Reports

Attachment 3. Laboratory Analytical Data QA/QC

Table 1. Water Level Elevations

Sunnyside Municipal Airport Pesticide Spray Shed, Sunnyside, Washington

Location	**SMW-1**		**SMW-2**		**SMW-3**		**SMW-4**	
MP Elevation (ft)	*756.24*		*756.18*		*755.17*		*755*	*(estimated)*
Northing (ft)	*362439.4*		*362363.6*		*362349.9*		*--*	
Easting (ft)	*1773960.4*		*1773964.0*		*1773867.7*		*--*	
Ecology ID	*BIE-972*		*BIE-967*		*BIE-974*		*BJW-713*	
k (high)(ft/day; cm/s)	*0.16*	*5.6E-05*	*0.36*	*1.3E-04*	*--*			
k (low)(ft/day; cm/s)	*0.13*	*4.6E-05*	*0.13*	*4.6E-05*	*--*			
	DTW	*WL Elev.*	*DTW*	*WL Elev.*	*DTW*	*WL Elev.*	*DTW*	*WL Elev.*
3/31/2014	10.56	745.68	10.95	745.23	10.26	744.91	--	--
5/9/2014	9.85	746.39	10.24	745.94	9.66	745.51	--	--
6/25/2014	9.49	746.75	9.85	746.33	9.22	745.95	--	--
8/26/2015	10.32	745.92	10.56	745.62	10.08	745.09	--	--
12/23/2015	--	--	--	--	--	--	9.42	745.6
4/12/2017	9.28	746.96	9.65	746.53	8.91	746.26	9.36	745.6
7/31/2017	9.48	746.76	9.65	746.53	9.29	745.88	9.51	745.5
10/30/2017	9.57	746.67	9.66	746.52	9.29	745.88	9.53	745.5
1/31/2018	9.81	746.43	9.91	746.27	9.48	745.69	9.74	745.3
4/17/2025	9.48	746.76	9.66	746.52	9.29	745.88	9.51	745.5
5/28/2025	10.39	745.85	10.73	745.45	10.15	745.02	10.22	744.8

Notes:

Elevations are reported in North American Vertical Datum 1988 (NAVD 88)

Northing and Easting are reported in US State Plane 1983, NAD 83, Geoid 12A, Zone Washington South 4602.

MP: Measuring Point

DTW: Measured depth to water

WL: Water level elevation; potentiometric surface elevation.

Table 2. Summary of Groundwater Monitoring Well Results, Spring 2025 Sampling Events
Sunnyside Municipal Airport, Sunnyside, Washington

Constituent	Units	Cleanup Level	SMW-1 4/17/2025	SMW-1 5/28/2025	SMW-2 4/17/2025	SMW-2 5/28/2025	SMW-3 4/17/2025	SMW-3 5/28/2025	SMW-4 4/17/2025	SMW-4 5/28/2025
Field Parameters										
Depth to Water	feet		10.24	10.39	10.63	10.73	9.96	10.15	10.19	10.22
Oxidation-Reduction Potential	mV		185.4	161.4	154.1	186.4	186.6	161.7	185	131.7
pH, Field	std.		7.31	7.19	7.33	7.14	7.29	7.11	7.47	7.42
Specific Conductivity	umhos/cm		1066	780	939	819	2285	1723	827	619
Temperature	degrees C		13.91	14.9	15.55	15.6	14.67	15.6	15.39	15.8
Turbidity	NTU		8.82	0.56	3.25	1.8	0.01	2.43	0.85	0.84
Nitrate Results										
Nitrate as N	mg/L as N	*10*	**65**	**56**	**54**	**67**	**220**	**180**	**15**	**14**
Organochlorine Pesticides										
4,4'-DDD	ug/L	*0.365*	0.005U	0.033U	0.0085	0.0095U	0.0052U	0.024U	0.0051U	0.0047U
4,4'-DDE	ug/L	*0.257*	0.0082	0.0048U	0.0051U	0.0048U	0.0061	0.014U	0.0051U	0.0047U
4,4'-DDT	ug/L	*0.257*	0.047	0.054	0.014	0.054	0.0052U	0.038U	0.0051U	0.0047U
Aldrin	ug/L	*0.005*	0.0032	0.024U	0.002U	0.0048U	**0.041**	0.017U	**0.0057**	0.0071U
alpha-BHC	ug/L	*0.014*	**0.022**	**0.03**	0.0051U	0.0052	**0.017**	**0.035**	0.0051U	0.0047U
alpha-Chlordane	ug/L	*0.25*	0.021	0.033U	0.0051U	0.012U	0.034	0.024U	0.0051U	0.0047U
beta-BHC	ug/L	*0.049*	0.005U	0.0048U	0.0051U	0.0048U	0.0052U	0.0048U	0.0051U	0.0047U
delta-BHC	ug/L	*0.005*	0.005U	**0.11**	0.0051U	0.0048U	0.0052U	0.014U	0.0051U	0.0047U
Dieldrin	ug/L	*0.005*	0.005U	**0.065**	0.0051U	0.014U	0.0052U	0.086U	0.0051U	0.0047U
Endosulfan I	ug/L	*96*	0.005U	0.032	0.0051U	0.071U	0.0052U	0.043U	0.0051U	0.0047U
Endosulfan II	ug/L	*96*	0.005U	0.019U	0.0051U	0.024U	0.0052U	0.14U	0.0051U	0.0047U
Endosulfan Sulfate	ug/L	*96*	0.005U	0.024U	0.0051U	0.0095U	0.0052U	0.15	0.0051U	0.0047U
Endrin	ug/L	*2*	0.069	0.075	0.0051U	--	0.087	0.062U	0.0051U	0.0047U
Endrin Aldehyde	ug/L	*2*	0.005U	0.033U	0.0051U	0.024U	0.0052U	0.014U	0.0051U	0.0047U
Endrin Ketone	ug/L	*2*	0.01U	0.024U	0.074	0.13	0.047	0.019U	0.01U	0.0047U
gamma-BHC	ug/L	*0.2*	0.046	0.029U	0.007	0.0095U	0.08	0.12	0.0051U	0.0047U
gamma-Chlordane	ug/L	*0.25*	0.005U	0.024U	0.0051U	0.0048U	0.0052U	0.077U	0.0051U	0.0047U
Heptachlor	ug/L	*0.019*	0.014	0.0048U	0.0051U	0.0048U	0.0052U	0.0096U	0.0051U	0.0047U
Heptachlor Epoxide	ug/L	*0.005*	0.005U	**0.0096**	0.0051U	0.0095U	0.0052U	0.019U	0.0051U	0.0047U
Methoxychlor	ug/L	*40*	0.01U	0.076U	0.01U	0.019U	0.89	0.6U	0.01U	0.0047U
Toxaphene	ug/L	*0.08*	0.05U	**5.4**	0.051U	**3.5**	0.052U	**7.4**	0.051U	0.095U
Organophosphorus Pesticides										
Azinphos-methyl	ug/L	*0.5*	0.5U	0.48U	0.49U	0.48U	0.5U	0.47U	0.5U	0.47U
Bolstar (Sulprofos)	ug/L	*0.2*	0.21U	0.19U	0.2U	0.19U	0.21U	0.19U	0.2U	0.19U
Chlorpyrifos	ug/L	*48*	0.21U	0.19U	0.2U	0.19U	0.21U	0.19U	0.2U	0.19U
Coumaphos	ug/L	*0.2*	0.21U	0.19U	0.2U	0.19U	0.21U	0.19U	0.2U	0.19U
Demeton-S	ug/L	*0.64*	0.14U	0.13U	0.14U	0.13U	0.15U	0.13U	0.14U	0.13U
Diazinon	ug/L	*0.2*	0.21U	0.19U	0.2U	0.19U	0.21U	0.19U	0.2U	0.19U
Dichlorvos (DDVP)	ug/L	*0.2*	0.21U	0.19U	0.2U	0.19U	0.21U	0.19U	0.2U	0.19U
Dimethoate	ug/L	*3.2*	0.5U	0.48U	0.49U	0.48U	0.5U	0.47U	0.5U	0.47U
Disulfoton (Di-Syston)	ug/L	*0.64*	0.21U	0.19U	0.2U	0.19U	0.21U	0.19U	0.2U	0.19U
EPN	ug/L	*0.2*	0.21U	0.19U	0.2U	0.19U	0.21U	0.19U	0.2U	0.19U
Ethoprop	ug/L	*0.2*	0.21U	0.19U	0.2U	0.19U	0.21U	0.19U	0.2U	0.19U
Fensulfothion	ug/L	*0.5*	0.5U	0.48U	0.49U	0.48U	0.5U	0.47U	0.5U	0.47U
Fenthion	ug/L	*0.2*	0.21U	0.19U	0.2U	0.19U	0.21U	0.19U	0.2U	0.19U
Malathion	ug/L	*320*	0.21U	0.19U	0.2U	0.19U	0.21U	0.19U	0.2U	0.19U
Merphos	ug/L	*0.5*	0.5U	0.48U	0.49U	0.48U	0.5U	0.47U	0.5U	0.47U
Methyl Parathion	ug/L	*4*	--	0.19U	--	0.19U	--	0.19U	--	0.19U
Monocrotophos	ug/L	*0.5*	0.5U	0.48U	0.49U	0.48U	0.5U	0.47U	0.5U	0.47U
Phorate	ug/L	*3.2*	0.21U	0.19U	0.2U	0.19U	0.21U	0.19U	0.2U	0.19U
Sulfotepp	ug/L	*8*	0.21U	0.19U	0.2U	0.19U	0.21U	0.19U	0.2U	0.19U
Tetrachlorvinphos (Gardona)	ug/L	*3.65*	0.21U	0.19U	0.2U	0.19U	0.21U	0.19U	0.2U	0.19U
Tokuthion	ug/L	*0.2*	0.21U	0.19U	0.2U	0.19U	0.21U	0.19U	0.2U	0.19U
Trichloronate	ug/L	*0.2*	0.21U	0.19U	0.2U	0.19U	0.21U	0.19U	0.2U	0.19U
Chlorinated Herbicides										
2,4,5-T	ug/L	*0.024*	0.193U	0.197U	0.199U	0.2U	0.2U	0.196U	0.2U	0.198U
2,4-D	ug/L	*70*	0.193U	0.197U	0.199U	0.2U	0.2U	0.196U	0.2U	0.198U
2,4-DB	ug/L	*128*	0.483U	0.491U	0.497U	0.499U	0.499U	0.491U	0.499U	0.496U
Dalapon	ug/L	*200*	1.16U	1.18U	1.19U	1.2U	1.2U	1.18U	1.2U	1.19U
Dicamba	ug/L	*480*	0.193U	0.197U	0.199U	0.2U	0.2U	0.364	0.2U	0.198U
Dichlorprop	ug/L	*0.025*	0.193U	0.197U	0.199U	0.2U	0.2U	0.196U	0.2U	0.198U
Dinoseb	ug/L	*7*	1.45U	1.47U	1.49U	1.5U	4.19	3.89	**15.3**	4.94
MCPA	ug/L	*8*	1.93U	1.97U	1.99U	2U	2U	1.96U	2U	1.98U
MCPP	ug/L	*16*	1.93U	1.97U	1.99U	2U	2U	1.96U	2U	1.98U
Pentachlorophenol	ug/L	*0.219*	--	--	--	--	--	--	--	--
Silvex	ug/L	*50*	0.386U	0.393U	0.398U	0.399U	0.399U	0.393U	0.399U	0.397U

Notes:
Bold indicates exceedance of the cleanup level

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Monitoring Well with Groundwater Elevation in Feet NAVD88

Water Table Groundwater Elevation Contour (NAVD88)

Triangulated Groundwater Flow Direction

0 Feet 50

N

Figure 1

Groundwater Elevations and Monitoring Wells April 17, 2025

Sunnyside Municipal Airport
Remedial Investigation

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Monitoring Well with Groundwater Elevation in Feet NAVD88

Water Table Groundwater Elevation Contour (NAVD88)

Triangulated Groundwater Flow Direction

0 Feet 50

N

Figure 2

Groundwater Elevations and Monitoring Wells May 28, 2025

Sunnyside Municipal Airport
Remedial Investigation

GROUNDWATER SAMPLING FIELD DATA SHEET

Well #: SMW-1

Sampling Event: April 2025

Sample #:

Project Number:	Date: [illegible]
Project Name: [illegible]	Location:
Project Address:	Sampled By:
Client Name: [illegible]	Purged By:
Laboratory: [illegible]	Date Sent to Lab:
Chain-of-Custody (yes/no):	Field QC Sample Number:
Shipment Method:	Sample Split:

Depth to Water (feet): 10.24

Purge Volume Measurement Method: [illegible]

Depth of Well (feet): 18.5 [illegible]

Purge Date/Time: 4/17/25 1330 → ?

Reference Point (surveyors notch, etc.): NS

Purging Equipment: [illegible]

Sampling Equipment: [illegible]

Water Level Probe Used: [illegible]

Three-Casing Volume Constant (CVC): 2-inch = **0.48** gpf ; 4 inch = **1.97** gpf ; 6-inch = **4.41** gpf PV=(π r² h)(7.48 gal/ft³)

Purge Volume = ft of water 8.26 x CVC 0.48 = 3.96 gallons Casing diameter (ft/in):

DTW	TIME (2400 hr)	CUMULATIVE VOLUME (gal / L)	pH (units)	mS EC (umhos/cm 25 c)	Temp (C)	TURBIDITY (visual / NTU)	DO (mg/L)	ORP (mV)
10.??	1338	0.5	7.26	1.107	13.85	[illegible]	5.70	182.6
10.79	1346	1.0	7.27	1.093	13.94	27.00	5.51	180.9
10.85	1355	1.75	7.29	1.086	14.16	31.49	5.09	182.6
10.94	1404	2.25	7.30	1.086	14.12	25.76	5.07	183.2
10.98	1412	2.75	7.35	1.016	14.38	22.74	4.97	183.4
10.90	1419	3.25	7.30	1.014	14.08	15.31	4.81	183.9
10.90	1423	3.5	7.31	1.062	14.03	10.96	4.55	184.5
10.90	1427	3.75	7.31	1.066	13.97	8.15	4.49	185.4
10.99	1431	4.0	7.31	1.066	13.91	8.89	4.57	185.4

≈ 3 casings

[illegible]

Well Integrity: [illegible]

Bottle Inventory Day/Time Sampled: 4/17/2025 1435

Quantity:	Container:	Preservatives:	Filtered (type):	Remarks:
2	1L [illegible]	–		[illegible]
2	1L [illegible]			[illegible]
3	[illegible]			[illegible]
1	500mL [illegible]			[illegible]

Signature: [signature]

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GROUNDWATER SAMPLING FIELD DATA SHEET

Well #: [illegible]

Sampling Event: [illegible]

Sample #:

Project Number:
Project Name: [illegible]
Project Address:
Client Name: [illegible]
Laboratory: [illegible]
Chain-of-Custody (yes/no): [illegible]
Shipment Method:

Date: 4/[illegible]/[illegible]
Location:
Sampled By: [illegible]
Purged By: [illegible]
Date Sent to Lab:
Field QC Sample Number:
Sample Split:

Depth to Water (feet): [illegible]
Depth of Well (feet): [illegible]
Reference Point (surveyors notch, etc.): [illegible]
Sampling Equipment: [illegible]

Purge Volume Measurement Method: [illegible]
Purge Date/Time: [illegible]
Purging Equipment: [illegible]
Water Level Probe Used: [illegible]

Three-Casing Volume Constant (CVC): 2-inch = **0.48** gpf ; 4-inch = **1.97** gpf ; 6-inch = **4.41** gpl   PV=(π r² h) (7.48 gal/ft³)

Purge Volume = ft of water 8.21 x CVC 0.48 = 3.97 gallons   Casing diameter (ft/in): 2 in

ORP (mV)	TIME (2400 hr)	CUMULATIVE VOLUME (gal / l)	pH (units)	mS EC (~~umhos~~/cm 25 c)	Temp (C)	TURBIDITY (visual / NTU)	Q (mL/min)	DTW (ft)	DO (mg/L)
	1107	0.5	7.35	0.871	15.16	13.75	200	10.86	2.01
144.4	1111	0.75	7.39	0.879	15.23	13.01	200	10.85	1.99
135.1	1116	1.0	7.40	0.882	15.41	13.64	200	10.85	1.97
137.4	1122	1.25	7.31	0.890	15.20	11.62	200	10.85	1.83
133.9	1131	1.75	7.37	0.896	15.31	11.31	200	10.85	1.73
13[illegible]	1137	2.0	7.36	0.903	15.08	8.54	200	10.84	1.49
135.9	1143	2.25	7.36	0.910	15.30	[illegible]	-	10.84	1.39
135.0	1145	[illegible]	7.36	0.91[illegible]	[illegible]	7.10	200	10.84	[illegible]
135.6	[illegible]	[illegible]	7.40	0.[illegible]	15.3[illegible]	6.44	200	10.85	[illegible]

Started purging with [illegible] tubing ~ [illegible] [illegible] casing - no immediate turbidity [illegible] [illegible] [illegible] [illegible] [illegible] replaced tubing (new [illegible])

Well Integrity: good

Bottle Inventory

Day/Time Sampled: 4/[illegible]/[illegible] [illegible]

Quantity:	Container:	Preservatives:	Filtered (type):	Remarks:
				SMW-12 @ 1230
2	1L Ag	-	-	[illegible] pesticides
2	1L Ag	-	-	herbicides
2	1L Ag	-	-	[illegible]
1	500 mL poly	-		nitrate

Signature:

PgG

GROUNDWATER SAMPLING FIELD DATA SHEET

Well #: SMW-2

Sampling Event: April 2025

Sample #:

Project Number:
Date: 4/[illegible]/2025
Project Name:
Location:
Project Address:
Sampled By:
Client Name:
Purged By:
Laboratory:
Date Sent to Lab:
Chain-of-Custody (yes/no):
Field QC Sample Number:
Shipment Method:
Sample Split:

Depth to Water (feet):
Purge Volume Measurement Method:
Depth of Well (feet):
Purge Date/Time:
Reference Point (surveyor's notch, etc.):
Purging Equipment:
Sampling Equipment:
Water Level Probe Used:

Three Casing Volume Constant (CVC): 2-inch = **0.48** gpf; 4-inch = **1.97** gpf; 6-inch = **4.41** gpf   PV=[illegible] (7.48 gal/ft³)

Purge Volume = ft of water ______ x CVC ______ = ______ gallons   Casing diameter (ft/in):

ORP (mV)	TIME (2400 hr)	CUMULATIVE VOLUME (gal / L)	pH (units)	EC (umhos/cm 25 c)	Temp. (C)	TURBIDITY (visual / NTU)	Q (mL/min)	DTW (ft)	DO (mg/L)
[illegible]	1159	3.0	7.33	0.938	15.42	6.08	200	10.84	1.57
140.9	1205	3.25	7.34	0.935	15.46	4.25	200	10.84	1.45
[illegible]	1210	3.5	7.34	0.935	15.48	4.24	200	10.84	1.39
148.3	1215	3.75	7.34	0.937	15.59	2.68	200	10.85	1.38
149.1	1221	4.0	7.33	0.939	15.35	3.05	–	15.85	1.34

*3 casings

Well Integrity:

Bottle Inventory
Day/Time Sampled:

Quantity: Container: Preservatives: Filtered (type): Remarks:

Signature: [signature]

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GROUNDWATER SAMPLING FIELD DATA SHEET

Well #: SMW-3

Sampling Event: 2005 April

Sample #:

Project Number: 5183000??	Date: 4/27/2005
Project Name: [illegible]	Location:
Project Address:	Sampled By: [illegible]
Client Name: City of Sunnyvale	Purged By: [illegible]
Laboratory: CalScience	Date Sent to Lab:
Chain-of-Custody (yes/no): Yes	Field QC Sample Number:
Shipment Method:	Sample Split:

Depth to Water (feet): 9.96	Purge Volume Measurement Method: [illegible]
Depth of Well (feet): 18.9 ([illegible])	Purge Date/Time: 4/27 [illegible]
Reference Point (surveyors notch, etc.): NO	Purging Equipment: [illegible]
Sampling Equipment: [illegible]	Water Level Probe Used: [illegible]

Three-Casing Volume Constant (CVC): 2-inch = 0.48 gpf ; 4-inch = 1.97 gpf ; 6-inch = 4.41 gpf   PV=($\pi r^2 h$) (7.48 gal/ft³)

Purge Volume = ft of water 8.94 x CVC 0.48 = 4.29 gallons   Casing diameter (ft/in): 2in

DTW (ft)	TIME (2400 hr)	CUMULATIVE VOLUME (gal / L)	pH (units)	EC (mS/cm 25 c)	Temp. (C)	TURBIDITY (visual / NTU)	DO (mg/L)	ORP (mV)	Q (mL/min)
10.41	1737	0.5	7.27	2.387	14.29	2.86	3.51	176.9	300
10.49	1743	1.0	7.29	2.350	14.60	3.19	3.04	175.8	300
10.58	1749	1.5	7.27	2.346	14.60	3.46	2.48	174.1	300
10.63	1756	2.0	7.31	2.329	14.65	2.37	2.61	181.5	350
10.64	1803	2.5	7.30	2.305	14.60	1.88	[illegible]	[illegible]	300
10.67	1809	3.0	7.30	2.289	14.63	1.79	2.36	179.7	300
10.65	1816	3.5	7.30	2.29?	14.68	0.39	2.41	180.0	300
10.65	1821	4.0	7.30	2.283	14.70	0.66	2.65	185.1	300
10.65	1828	4.5	7.29	2.285	14.67	0.51	2.67	186.6	300

≈ 3 casings

[illegible] gallons
[illegible]

Well Integrity: Good

Bottle Inventory   Day/Time Sampled: 4/27/2005 1830

Quantity	Container	Preservatives:	Filtered (type):	Remarks:
2	1L Amb			
3	1L Amb			[illegible]
2	1L Amb			[illegible]
2	500 mL Poly			[illegible]

Signature: [signature]

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GROUNDWATER SAMPLING FIELD DATA SHEET

Well #: SMW-4

Sampling Event: April 2025

Sample #:

Project Number:	Date: 4/17/2025
Project Name: [illegible]	Location:
Project Address:	Sampled By: RP
Client Name: [illegible]	Purged By: RP
Laboratory: [illegible]	Date Sent to Lab:
Chain-of-Custody (yes/no): yes	Field CC Sample Number:
Shipment Method:	Sample Split:

Depth to Water (feet): 10.19	Purge Volume Measurement Method: [illegible]
Depth of Well (feet): 43.00 ([illegible])	Purge Date/Time: 4/17/25 1540-[illegible]
Reference Point (surveyors notch, etc.): NO	Purging Equipment: peristaltic
Sampling Equipment: peristaltic	Water Level Probe Used: [illegible]

Three-Casing Volume Constant (CVC): 2-inch = **0.48** gpf ; 4-inch = **1.97** gpf ; 6-inch – **4.41** gpf   PV=($\pi r^2 h$) (7.48 gal/ft³)

Purge Volume = ft of water 32.81 x CVC 0.48 = 15.75 gallons   Casing diameter (ft/in):

[illegible]	TIME (2400 hr)	CUMULATIVE VOLUME (gal / L)	pH (units)	EC (umhos/cm 25 c)	Temp. (C)	TURBIDITY (visual / NTU)	DO (mg/L)	ORP (mV)	Q ([illegible])
10.29	1551	0.5	7.49	0.811	15.52	3.49	0.46	184.6	450
10.25	1556	1.0	7.47	0.809	15.37	1.58	0.32	186.2	455
-	1556	1.5	7.49	0.808	15.31	-	0.29	186.3	-
-	1602	2.0	7.46	0.804	15.39	-	0.34	186.6	-
10.25	1607	2.5	7.44	0.805	15.38	2.25	0.28	186.9	450
10.24	1611	3.0	7.48	0.809	15.58	1.69	0.21	186.7	450
10.24	1615	3.5	7.46	0.809	15.44	0.81	0.21	186.3	450
10.24	1619	4.0	7.46	0.809	15.41	1.31	0.21	186.2	450
10.25	1624	4.5	7.47	0.808	15.42	0.97	0.21	185.2	450

[illegible] bailer would not go down well casing – [illegible]

Well Integrity: Good

Bottle Inventory   Day/Time Sampled: 4/17/2025 1630

Quantity:	Container	Preservatives: Filtered (type):	Remarks: MS/MSD 1630
2	1L AG	-	[illegible]
2	1L AG	-	[illegible]
2	1L AG	-	[illegible]
1	250ml poly	-	[illegible]

Signature:

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GROUNDWATER SAMPLING FIELD DATA SHEET

Well #: SMW-04

Sampling Event: April 2009

Sample #:

Project Number:
Date:
Project Name: [illegible]
Location:
Project Address:
Sampled By:
Client Name:
Purged By:
Laboratory:
Date Sent to Lab.
Chain-of-Custody (yes/no):
Field CC Sample Number:
Shipment Method:
Sample Split:

Depth to Water (feet):
Purge Volume Measurement Method:
Depth of Well (feet):
Purge Date/Time:
Reference Point (surveyors notch, etc.):
Purging Equipment:
Sampling Equipment:
Water Level Probe Used:

Three-Casing Volume Constant (CVC): 2-inch – **0.48** gpf ; 4-inch – **1.97** gpf ; 6-inch – **4.41** gpf PV=(π r² h) (7.48 gal/ft³)

Purge Volume = ft of water ______ x CVC ______ = ______ gallons Casing diameter (ft/in):

DTW (ft)	TIME (2400 hr)	CUMULATIVE VOLUME (gal / L)	pH (units)	EC (umhos/cm 25 c)	Temp. (C)	TURBIDITY (visual / NTU)	DO (mg/L)	ORP (mV)	Q (mL/m)
10.93	1609	5.0	7.47	0.897	15.40	0.85	0.81	125.5	400
10.93	1634	5.5	7.7	0.897	15.39	0.85	0.91	117.0	400

* Stable @ 1 casing vol.

Well Integrity:

Bottle Inventory

Day/Time Sampled: 4/1/2009 1640

Quantity	Container	Preservatives: Filtered (type):	Remarks
			MS/MSD 1650

Signature:

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GROUNDWATER SAMPLING FIELD DATA SHEET

Well #: SMW-1

Sample #:

Project Number:
Project Name: Sunnyside Airport
Project Address:
Client Name: City of Sunnyside

Date: 5/28/25
Location:
Sampled By: CS
Purged By: CS

Casing Diameter: (2") 4" 6" Other

Depth to Water (feet): 10.39
Depth of Well (feet): 18.5
Reference Point (surveyors notch, etc.): TOC
Day/Time Sampled: 5/28/25 13:15

Purge Volume Measurement Method: 5 gal Bucket
Date Purged: 5/28/25 11:55
Purge Time (from/to): 13:05
Water Level Probe Used: orange 200'

Purge Volume Calculation: (r²h)(7.48 gal/ft³)(3 casing volumes) 8.11 x 0.49
Purge Volume (gallons) for 2" = (0.49)(h); 4" = (1.96) (h); 6" = (4.41) (h)
Calculated Purge Volume (gallons): 3.97
Actual Purge Volume (gallons):

DTW (feet)	TIME (2400 hr)	CUMULATIVE VOLUME (gal)	pH (units)	EC (µmhos/cm 25 c)	Temp °C	TURBIDITY	300 ml/sec ODOR (sec)	ORP	DO mg/L
10.75	11:58	0.25	7.12	0.824	15.0	7.57	110	160	6.06
10.86	12:03	0.5	7.13	0.825	15.0	3.37	115	165.2	5.49
10.92	12:11	1.0	7.14	0.814	14.9	1.70	130	162.9	5.30
10.93	12:19	1.5	7.16	0.804	15.1	1.18	130	161.4	5.07
10.93	12:27	2.0	7.18	0.796	15.1	0.97	130	161.3	4.77
10.95	12:37	2.5	7.17	0.788	15.0	0.65	130	162.1	4.58

Purging Equipment: PGG Peristaltic
Sampling Equipment: Same

Laboratory: Onsite Env.
Chain-of-Custody (yes/no): Yes
Shipment Method: Hand Deliver

Date Sent to Lab: 5/29/25
Field CC Sample Number:
Split with (names/organizations):

Well Integrity: good. Strong gas odor from something nearby to well

Quantity:	Container:	Preservatives:	Filtered (type):	Remarks:
2	1 L AG			pest
2	1L AG			pest
2	1L AG			herb
1	250 mL			nitrate
	* Disconnected flow cell before sampling *			

Signature: Cheyenne

Page 1 of 2

* Water clear / low turb (visual)

PGG

GROUNDWATER SAMPLING FIELD DATA SHEET

Well #: SMW-1

Sample #:

Project Number: _____ Date: 5/28/25
Project Name: _____ Location: _____
Project Address: _____ Sampled By: _____
Client Name: _____ Purged By: _____

Casing Diameter: (2") 4" 6" Other

Depth to Water (feet): _____ Purge Volume Measurement Method: _____
Depth of Well (feet): _____ Date Purged: _____
Reference Point (surveyors notch, etc.): _____ Purge Time (from/to): _____
Day/Time Sampled: 5/28/25 13:15 Water Level Probe Used: _____

Purge Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$(3 casing volumes)
Purge Volume (gallons) for 2" = (0.49)(h); 4" = (1.96) (h); 6" = (4.41) (h)
Calculated Purge Volume (gallons): _____ Actual Purge Volume (gallons): _____

DTW (Feet)	TIME (2400 hr)	CUMULATIVE VOLUME (gal)	pH (units)	mS EC (~~umhos~~/cm 25 c)	Temp (~~Color~~) (°C)	NTU TURBIDITY (~~Visual~~)	(~~Odor~~) Q (sec)	(~~Other~~) ORP	DO mg/L
10.98	12:45	3.0	7.16	0.782	15.0	0.56	120	161.3	4.48
11.00	12:50	3.25	7.17	0.782	15.0	0.68	120	161.7	4.45
11.00	12:57	3.75	7.19	0.782	14.9	0.58	120	161.2	4.43
11.02	13:04	4.0	7.19	0.780	14.9	0.56	120	161.4	4.47
		* 3 casing volumes purged.							

Purging Equipment: _____ Sampling Equipment: _____

Laboratory: _____ Date Sent to Lab: _____
Chain-of-Custody (yes/no): _____ Field CC Sample Number: _____
Shipment Method: _____ Split with (names/organizations): _____

Well Integrity: _____

Quantity:	Container:	Preservatives:	Filtered (type):	Remarks:

Signature: Cheyenne A

PGG

GROUNDWATER SAMPLING FIELD DATA SHEET

Well #: SMW-2
Sample #: ____

Project Number:	Date: 5/28/25
Project Name: Sunnyside Airport	Location:
Project Address: Sunnyside WA	Sampled By: CS
Client Name:	Purged By: CS

Casing Diameter: (2") ____ 4" ____ 6" ____ Other ____

Depth to Water (feet): 10.93	Purge Volume Measurement Method: 5 gal Bucket
Depth of Well (feet): 18.9 (20' to Base)	Date Purged: 5/27/25 10:00
Reference Point (surveyors notch, etc.): TOC	Purge Time (from/to): 11:00
Day/Time Sampled: 5/28/25 11:15	Water Level Probe Used: orange 200'

Purge Volume Calculation: ($\pi r^2 h$)(7.48 gal/ft³)(3 casing volumes) 8.17×0.49 = 4.00
Purge Volume (gallons) for 2" = (0.49)(h); 4" = (1.96) (h); 6" = (4.41) (h)
Calculated Purge Volume (gallons): 4.00 Actual Purge Volume (gallons): ____

DTW (feet)	TIME (2400 hr)	CUMULATIVE VOLUME (gal)	pH (units)	EC mS/cm 25 c (~~umhos~~)	Temp °C (~~COLOR~~ ~~(visual)~~)	NTU TURBIDITY (~~visual~~)	Q (500 mL/sec)	ORP (~~ODOR~~)	DO mg/L (~~OTHER~~)
10.95	10:03	<0.25	7.04	0.880	15.5	13.49	130 sec	228.6	2.48
10.93	10:08	0.5	7.09	0.878	15.6	16.66	130 sec	219.2	1.68
10.96	10:15	1.0	7.11	0.868	15.6	17.39	110s	211	1.51
10.98	10:21	1.5	7.12	0.851	15.5	13.19	110s	205.7	1.67
10.99	10:27	2.0	7.13	0.830	15.5	6.65	110s	200.8	1.44
10.99	10:34	2.5	7.14	0.823	15.5	3.36	115 sec	195	1.80

Purging Equipment: PGG peristaltic Sampling Equipment: Same

Laboratory: [illegible] Onsite ENV.	Date Sent to Lab: 5/29/25
Chain-of-Custody (yes/no): yes	Field CC Sample Number:
Shipment Method: Hand deliver	Split with (names/organizations):

Well Integrity: good. locked.

Quantity:	Container:	Preservatives:	Filtered (type):	Remarks:
2	1L	N		orgo chlor pesticide
2	1L	N		herbicides
2	1L	N		orgo phos pesticide
1	250 mL	N		nitrates
Field duplicate		SMW-12	5/28/25	11:25

* Disconnected flow cell before sampling *

Signature: Cheyenne S[illegible]

Page 1 of 2

PGG

* Water clear, [illegible]

GROUNDWATER SAMPLING FIELD DATA SHEET

Well #: SMW-2

Sample #:

Project Number: _____ Date: 5/28/25

Project Name: Sunnyside Airport Location: _____

Project Address: _____ Sampled By: CS

Client Name: City of Sunnyside Purged By: CS

Casing Diameter: 2" _____ 4" _____ 6" _____ Other _____

Depth to Water (feet): _____ Purge Volume Measurement Method: _____

Depth of Well (feet): _____ Date Purged: _____

Reference Point (surveyors notch, etc.): _____ Purge Time (from/to): _____

Day/Time Sampled: _____ Water Level Probe Used: _____

Purge Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$(3 casing volumes)

Purge Volume (gallons) for 2" = (0.49)(h); 4" = (1.96) (h); 6" = (4.41) (h)

Calculated Purge Volume (gallons): 4.00 Actual Purge Volume (gallons): _____

DTW (ft)	TIME (2400 hr)	CUMULATIVE VOLUME (gal)	pH (units)	MS EC ~~umhos~~/cm 25 c)	~~COLOR~~ (~~visual~~) Temp °C	TURBIDITY (~~visual~~) NTU	~~ODOR~~ Q (500mL/sec) (Sec)	ORP	~~OTHER~~ DO mg/L
11.00	10:41	3.0	7.14	0.820	15.6	2.31	115 sec	190.6	1.84
11.00	10:48	3.5	7.14	0.818	15.6	1.80	"	186.8	1.90
11.01	10:53	3.75	7.14	0.820	15.6	1.79	"	186.1	1.90
	10:58	4.0	7.14	0.819	15.6	1.80	"	186.4	1.91
		* 3 casing volumes							

Purging Equipment: _____ Sampling Equipment: _____

Laboratory: _____ Date Sent to Lab: _____

Chain-of-Custody (yes/no): _____ Field CC Sample Number: _____

Shipment Method: _____ Split with (names/organizations): _____

Well Integrity: _____

Quantity:	Container:	Preservatives:	Filtered (type):	Remarks:

Signature: Cheyenne Sa

PgG

GROUNDWATER SAMPLING FIELD DATA SHEET

Well #: SMW-3

Sample #:

Project Number: _____ Date: 5/28/25

Project Name: Sunnyside Airport Location: _____

Project Address: _____ Sampled By: CS

Client Name: City of Sunnyside Purged By: CS

Casing Diameter: (2") _____ 4" _____ 6" _____ Other _____

Depth to Water (feet): 10.15 Purge Volume Measurement Method: 5 gal Bucket

Depth of Well (feet): 18.9 Date Purged: 5/28/25 14:00

Reference Point (surveyors notch, etc.): TOC Purge Time (from/to): _____

Day/Time Sampled: 5/28/25 15:15 Water Level Probe Used: orange 200'

Purge Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$(3 casing volumes) 8.75 x 0.49

Purge Volume (gallons) for 2" = (0.49)(h); 4" = (1.96) (h); 6" = (4.41) (h)

Calculated Purge Volume (gallons): 4.28 Actual Purge Volume (gallons): _____

DTW (feet)	TIME (2400 hr)	CUMULATIVE VOLUME (gal)	pH (units)	mS EC (~~umhos~~/cm 25 c)	Temp °C ~~COLOR (visual)~~	NTU TURBIDITY (~~visual~~)	500mL/sec Q (sec)	~~ODOR~~ ORP	~~OTHER~~ DO mg/L
10.43	14:08	0.25	7.10	1.786	16.2	14.10	110	163.7	6.11
10.54	14:15	0.75	7.10	1.772	15.9	15.90	115	163.9	4.94
10.60	14:23	1.25	7.10	1.774	16.0	15.87	115	163.6	4.50
10.65	14:30	1.75	7.10	1.766	15.7	14.31	115	162.5	4.40
10.68	14:37	2.25	7.10	1.723	15.8	5.07	115	161.6	4.15
10.70	14:49	3.0	7.11	1.730	15.8	3.33	115	161.7	4.08

Purging Equipment: PGG Peristaltic Sampling Equipment: same

Laboratory: Onsite Env. Date Sent to Lab: 5/29/25

Chain-of-Custody (yes/no): yes Field CC Sample Number: _____

Shipment Method: Hand deliver Split with (names/organizations): _____

Well Integrity: good.

Quantity:	Container:	Preservatives:	Filtered (type):	Remarks:
2	1 Liter			pest
2	"			pest
2	"			herb
1	250 mL			nitrates
	* Disconnected Flow Cell before Sampling *			

Signature: Cheyenne Sa

PGG

* Water is clear / Low turb during Purging

GROUNDWATER SAMPLING FIELD DATA SHEET

Well #: SMW-3

Sample #:

Project Number: _____ Date: 5/28/25

Project Name: _____ Location: _____

Project Address: _____ Sampled By: _____

Client Name: _____ Purged By: _____

Casing Diameter: (2") _____ 4" _____ 6" _____ Other _____

Depth to Water (feet): _____ Purge Volume Measurement Method: _____

Depth of Well (feet): _____ Date Purged: _____

Reference Point (surveyors notch, etc.): _____ Purge Time (from/to): _____

Day/Time Sampled: _____ Water Level Probe Used: _____

Purge Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$ (3 casing volumes)

Purge Volume (gallons) for 2" = (0.49)(h); 4" = (1.96) (h); 6" = (4.41) (h)

Calculated Purge Volume (gallons): _____ Actual Purge Volume (gallons): _____

DTW (ft)	TIME (2400 hr)	CUMULATIVE VOLUME (gal)	pH (units)	mS EC (~~umhos~~/cm 25 c)	TEMP ~~COLOR~~ (°C) (~~visual~~)	NTU TURBIDITY (~~visual~~)	~~ODOR~~ (sec)	~~OTHER~~ ORP	~~OTHER~~ DO mg/L
10.70	14:53	3.25	7.11	1.723	15.5	3.47	115	161.8	4.17
10.71	14:57	3.50	7.11	1.725	15.6	3.38	115	161.8	4.09
10.71	15:06	4.0	7:11	1.723	15:6	2.45	115	161.7	4.08
	15:11	4.25	7.11	1.723	15.6	2.43	115	161.7	4.08
		* 3 casing volumes							

Purging Equipment: _____ Sampling Equipment: _____

Laboratory: _____ Date Sent to Lab: _____

Chain-of-Custody (yes/no): _____ Field CC Sample Number: _____

Shipment Method: _____ Split with (names/organizations): _____

Well Integrity: _____

Quantity:	Container:	Preservatives:	Filtered (type):	Remarks:

Signature: Chrysanne

PGG

GROUNDWATER SAMPLING FIELD DATA SHEET

Well #: SMW-4

Sample #:

Project Number:
Project Name: Sunnyside Airport
Project Address:
Client Name: City of Sunnyside

Date: 5/28/25
Location:
Sampled By: CS
Purged By: CS

Casing Diameter: (2") 4" 6" Other

Depth to Water (feet): 10.22
Depth of Well (feet): 43.00
Reference Point (surveyors notch, etc.): TOC
Day/Time Sampled: 5/28/25 17:00

Purge Volume Measurement Method: 5 gal BUCKET
Date Purged: 5/28/25 15:45
Purge Time (from/to):
Water Level Probe Used: orange 200'

1 casing = 5.33

Purge Volume Calculation: ~~(πr²h)~~(7.48 gal/ft³)(3 casing volumes) 32.78 x 0.49
Purge Volume (gallons) for 2" = (0.49)(h); 4" = (1.96) (h); 6" = (4.41) (h)
Calculated Purge Volume (gallons): 16.06
Actual Purge Volume (gallons):

DTW (feet)

TIME (2400 hr)	CUMULATIVE VOLUME (gal)	pH (units)	mS EC (~~umhos~~/cm 25 c)	TEMP °C ~~COLOR~~ (visual)	NTU TURBIDITY (~~visual~~)	~~ODOR~~ Q (sec)	~~OTHER~~ ORP	DO mg/L
10.24 15:48	0.25	7.42	0.612	16.2	2.81	120	141.9	3.37
10.25 15:53	0.50	7.43	0.607	16.2	2.09	120	139.4	1.68
10.25 16:00	1.0	7.43	0.610	15.9	1.66	120	137.8	1.06
10.25 16:07	1.5	7.42	0.616	15.9	1.84	120	135.7	0.96
10.25 16:14	2.0	7.42	0.618	16.0	1.72	120	134	0.99
10.25 16:22	2.5	7.42	0.618	16.0	1.20	120	131.7	0.99

Purging Equipment: PGG Peristaltic
Sampling Equipment: Same

Laboratory: Onsite Env.
Chain-of-Custody (yes/no): yes
Shipment Method: Hand deliver

Date Sent to Lab: 5/29/25
Field CC Sample Number:
Split with (names/organizations):

Well Integrity: good. locked.

MS/MSD collected

Quantity:	Container:	Preservatives:	Filtered (type):	Remarks:
2	1L			pest
2	1L			pest
2	1L			herb
1	250 mL			nitrate
	* Disconnected flow cell before sampling *			

Signature: Cheyenne Sm

PGG

GROUNDWATER SAMPLING FIELD DATA SHEET

Well #: SMW-4

Sample #: _____

Project Number: _____ Date: 5/28/25

Project Name: _____ Location: _____

Project Address: _____ Sampled By: _____

Client Name: _____ Purged By: _____

Casing Diameter: 2" _____ 4" _____ 6" _____ Other _____

Depth to Water (feet): _____ Purge Volume Measurement Method: _____

Depth of Well (feet): _____ Date Purged: _____

Reference Point (surveyors notch, etc.): _____ Purge Time (from/to): _____

Day/Time Sampled: 5/28/25 17:00 Water Level Probe Used: _____

Purge Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$(3 casing volumes)

Purge Volume (gallons) for 2" = (0.49)(h); 4" = (1.96) (h); 6" = (4.41) (h)

Calculated Purge Volume (gallons): _____ Actual Purge Volume (gallons): _____

DTW feet

TIME (2400 hr)	CUMULATIVE VOLUME (gal)	pH (units)	mS EC (~~umhos/cm~~ 25 c)	Temp °C	~~COLOR (visual)~~ TURBIDITY (~~visual~~)	NTU	500mL/seconds ~~ODOR~~ Q (sec)	~~OTHER~~ ORP	DO mg/L
10.24 16:30	3.0	7.42	0.620	15.9	1.46		120	131.4	0.99
10.24 16:35	3.25	7.42	0.620	15.9	1.92		120	131.5	0.99
10.25 16:42	4.0	7.42	0.618	15.9	0.89		120	131.6	0.99
10.25 16:52	5.0	7.43	0.618	15.8	0.83		120	131.6	0.99
10.25 16:57	5.25	7.42	0.619	15.8	0.84		120	131.7	0.99
	* stable before / purge volume								

Purging Equipment: _____ Sampling Equipment: _____

Laboratory: _____ Date Sent to Lab: _____

Chain-of-Custody (yes/no): _____ Field CC Sample Number: _____

Shipment Method: _____ Split with (names/organizations): _____

Well Integrity: _____

MS/MSD collected 5/28/25 17:00

Quantity:	Container:	Preservatives:	Filtered (type):	Remarks:

Signature: Cheyenne Lee

PgG

(1250 gals)

GROUNDWATER SAMPLING FIELD DATA SHEET

Well #: IBC TOTE

Sample #:

Project Number: 1
Project Name: Sunny Side Airport
Project Address:
Client Name: City of Sunnyside

Date: 5/28/25
Location:
Sampled By: CS
Purged By: CS

Casing Diameter: 2"_____ 4"_____ 6"_____ Other _____

Depth to Water (feet):
Depth of Well (feet):
Reference Point (surveyors notch, etc.):
Day/Time Sampled: 5/28/25 17:50

Purge Volume Measurement Method: 5 gal Bucket
Date Purged: 5/28/25 17:35
Purge Time (from/to):
Water Level Probe Used: —

Purge Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$(3 casing volumes)
Purge Volume (gallons) for 2" = (0.49)(h); 4" = (1.96) (h); 6" = (4.41) (h)
Calculated Purge Volume (gallons):_____ Actual Purge Volume (gallons):_____

TIME (2400 hr)	CUMULATIVE VOLUME (gal)	pH (units)	mS EC ~~umhos~~/cm 25 c)	Temp ~~(visual)~~ °C	TURBIDITY ~~(visual)~~ NTU	~~other~~ ORP	~~other~~ DO mg/L
17:40	0.25	8.46	1.175	30.1	144.8	111.7	8.35
17:43	0.5	8.65	1.177	30.5	122.9	109.0	7.87
17:50	1.0	8.66	1.178	30.2	123.6	109.1	8.10

→ Cloudy gray/yellow water purged/ let settle x 30 mins before purging 250 gallon Tote where purge water is Stored.
* disconnected Flow Cell before Sampling

Purging Equipment: PGG Peristaltic
Sampling Equipment: same

Laboratory:
Chain-of-Custody (yes/no):
Shipment Method:
Date Sent to Lab:
Field CC Sample Number:
Split with (names/organizations):

Well Integrity: good.

Quantity:	Container:	Preservatives:	Filtered (type):	Remarks:
7	500ml	Nitric Acid	N	RCRA METALS

Signature: Cheyenne S

Page_____ of_____

PGG

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company:

Project Number:

Project Name:

Project Manager:

Sampled by:

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☐ Standard (7 Days)

☐ ______ (other)

Laboratory Number:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 ☐ 8260 ☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664			% Moisture

	Signature	Company	Date	Time
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 29, 2025

Eric Cutler
Mott MacDonald
1601 5th Ave #800
Seattle, WA 98101

Re: Analytical Data for Project Sunnyside Airport
Laboratory Reference No. 2504-304

Dear Eric:

Enclosed are the analytical results and associated quality control data for samples submitted on April 18, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: April 29, 2025
Samples Submitted: April 18, 2025
Laboratory Reference: 2504-304
Project: Sunnyside Airport

Case Narrative

Samples were collected on April 17, 2025 and received by the laboratory on April 18, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Organochlorine Pesticides by EPA 8081B Analysis

Samples SMW-1, SMW-2, SMW-12 and SMW-3 had a complicated matrix with many interfering peaks, which caused rapid degradation of the analytical instrument resulting in a larger than normal number of "Y1" flags. These flags indicate that the continuing calibration verifications failed the +/- 20% control value, meaning that any values (positive detections and/or PQLs) should be considered estimated values. Additionally, some of the detections are also flagged with a "P" flag, which indicates that the response between the analytical and confirmation column exceeded 40%. These detections should be considered cautiously, because even though they meet method criteria for detection, they may well be caused by interferences in the sample matrix as opposed to the actual presence of the particular analyte.

Organophosphorus Pesticides by EPA 8270/SIM Analysis

Some project requested PQLs are not achievable for samples SMW-1 and SMW-3 due to an insufficient volume of sample provided.

Project requested PQLs for DDVP and EPN are not achievable for all samples. These compounds were reported at the lowest level possible.

The Matrix Spike/Matrix Spike Duplicate had one recovery slightly above control limits. The samples were non-detect for this analyte. No further action was taken.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: April 29, 2025
Samples Submitted: April 18, 2025
Laboratory Reference: 2504-304
Project: Sunnyside Airport

ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-1**					
Laboratory ID:	04-304-01					
HCBD	ND	0.0050	EPA 8081B	4-22-25	4-22-25	Y1
Hexachlorobenzene	ND	0.0050	EPA 8081B	4-22-25	4-22-25	Y1
alpha-BHC	0.022	0.0050	EPA 8081B	4-22-25	4-22-25	Y1
gamma-BHC	0.046	0.0050	EPA 8081B	4-22-25	4-22-25	Y1
beta-BHC	ND	0.0050	EPA 8081B	4-22-25	4-22-25	Y1
delta-BHC	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
Heptachlor	0.014	0.0050	EPA 8081B	4-22-25	4-22-25	Y1,P
Aldrin	0.0032	0.0020	EPA 8081B	4-22-25	4-22-25	Y1,P
Heptachlor epoxide	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
gamma-Chlordane	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
alpha-Chlordane	0.021	0.0050	EPA 8081B	4-22-25	4-22-25	P
4,4'-DDE	0.0082	0.0050	EPA 8081B	4-22-25	4-22-25	Y1,P
Endosulfan I	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
Dieldrin	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
Endrin	0.069	0.0050	EPA 8081B	4-22-25	4-22-25	
4,4'-DDD	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
Endosulfan II	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
4,4'-DDT	0.047	0.0050	EPA 8081B	4-22-25	4-22-25	Y1
Endrin aldehyde	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
Methoxychlor	ND	0.010	EPA 8081B	4-22-25	4-22-25	
Endosulfan sulfate	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
Endrin ketone	ND	0.010	EPA 8081B	4-22-25	4-22-25	
Toxaphene	ND	0.050	EPA 8081B	4-22-25	4-22-25	
Tech Chlordane	ND	0.025	EPA 8081B	4-22-25	4-22-25	
Surrogate:	*Percent Recovery*	*Control limits*				
Tetrachloro-m-xylene	*47*	*21-113*				
Decachlorobiphenyl	*79*	*45-133*				

Date of Report: April 29, 2025
Samples Submitted: April 18, 2025
Laboratory Reference: 2504-304
Project: Sunnyside Airport

ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-2**					
Laboratory ID:	04-304-02					
HCBD	ND	0.0051	EPA 8081B	4-22-25	4-22-25	Y1
Hexachlorobenzene	ND	0.0051	EPA 8081B	4-22-25	4-22-25	Y1
alpha-BHC	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
gamma-BHC	0.0070	0.0051	EPA 8081B	4-22-25	4-22-25	
beta-BHC	ND	0.0051	EPA 8081B	4-22-25	4-22-25	Y1
delta-BHC	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
Heptachlor	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
Aldrin	ND	0.0020	EPA 8081B	4-22-25	4-22-25	Y1
Heptachlor epoxide	ND	0.0051	EPA 8081B	4-22-25	4-22-25	Y1
gamma-Chlordane	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
alpha-Chlordane	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
4,4'-DDE	ND	0.0051	EPA 8081B	4-22-25	4-22-25	Y1
Endosulfan I	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
Dieldrin	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
Endrin	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
4,4'-DDD	0.0085	0.0051	EPA 8081B	4-22-25	4-22-25	
Endosulfan II	ND	0.0051	EPA 8081B	4-22-25	4-22-25	Y1
4,4'-DDT	0.014	0.0051	EPA 8081B	4-22-25	4-22-25	Y1,P
Endrin aldehyde	ND	0.0051	EPA 8081B	4-22-25	4-22-25	Y1
Methoxychlor	ND	0.010	EPA 8081B	4-22-25	4-22-25	
Endosulfan sulfate	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
Endrin ketone	0.074	0.010	EPA 8081B	4-22-25	4-22-25	Y1
Toxaphene	ND	0.051	EPA 8081B	4-22-25	4-22-25	
Tech Chlordane	ND	0.025	EPA 8081B	4-22-25	4-22-25	
Surrogate:	*Percent Recovery*	*Control limits*				
Tetrachloro-m-xylene	*35*	*21-113*				
Decachlorobiphenyl	*65*	*45-133*				

Date of Report: April 29, 2025
Samples Submitted: April 18, 2025
Laboratory Reference: 2504-304
Project: Sunnyside Airport

ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-12**					
Laboratory ID:	04-304-03					
HCBD	ND	0.0053	EPA 8081B	4-22-25	4-22-25	Y1
Hexachlorobenzene	ND	0.0053	EPA 8081B	4-22-25	4-22-25	Y1
alpha-BHC	ND	0.0053	EPA 8081B	4-22-25	4-22-25	
gamma-BHC	0.0090	0.0053	EPA 8081B	4-22-25	4-22-25	
beta-BHC	ND	0.0053	EPA 8081B	4-22-25	4-22-25	Y1
delta-BHC	ND	0.0053	EPA 8081B	4-22-25	4-22-25	
Heptachlor	ND	0.0053	EPA 8081B	4-22-25	4-22-25	
Aldrin	ND	0.0021	EPA 8081B	4-22-25	4-22-25	Y1
Heptachlor epoxide	ND	0.0053	EPA 8081B	4-22-25	4-22-25	Y1
gamma-Chlordane	ND	0.0053	EPA 8081B	4-22-25	4-22-25	
alpha-Chlordane	ND	0.0053	EPA 8081B	4-22-25	4-22-25	
4,4'-DDE	ND	0.0053	EPA 8081B	4-22-25	4-22-25	Y1
Endosulfan I	ND	0.0053	EPA 8081B	4-22-25	4-22-25	
Dieldrin	ND	0.0053	EPA 8081B	4-22-25	4-22-25	
Endrin	ND	0.0053	EPA 8081B	4-22-25	4-22-25	Y1
4,4'-DDD	0.0090	0.0053	EPA 8081B	4-22-25	4-22-25	
Endosulfan II	ND	0.0053	EPA 8081B	4-22-25	4-22-25	Y1
4,4'-DDT	0.014	0.0053	EPA 8081B	4-22-25	4-22-25	Y1,P
Endrin aldehyde	ND	0.0053	EPA 8081B	4-22-25	4-22-25	Y1
Methoxychlor	ND	0.011	EPA 8081B	4-22-25	4-22-25	
Endosulfan sulfate	ND	0.0053	EPA 8081B	4-22-25	4-22-25	
Endrin ketone	0.075	0.011	EPA 8081B	4-22-25	4-22-25	Y1
Toxaphene	ND	0.053	EPA 8081B	4-22-25	4-22-25	
Tech Chlordane	ND	0.027	EPA 8081B	4-22-25	4-22-25	
Surrogate:	*Percent Recovery*	*Control limits*				
Tetrachloro-m-xylene	*37*	*21-113*				
Decachlorobiphenyl	*69*	*45-133*				

Date of Report: April 29, 2025
Samples Submitted: April 18, 2025
Laboratory Reference: 2504-304
Project: Sunnyside Airport

ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-3**					
Laboratory ID:	04-304-04					
HCBD	ND	0.0052	EPA 8081B	4-22-25	4-22-25	Y1
Hexachlorobenzene	ND	0.0052	EPA 8081B	4-22-25	4-22-25	Y1
alpha-BHC	0.017	0.0052	EPA 8081B	4-22-25	4-22-25	Y1
gamma-BHC	0.080	0.0052	EPA 8081B	4-22-25	4-22-25	P
beta-BHC	ND	0.0052	EPA 8081B	4-22-25	4-22-25	Y1
delta-BHC	ND	0.0052	EPA 8081B	4-22-25	4-22-25	
Heptachlor	ND	0.0052	EPA 8081B	4-22-25	4-22-25	
Aldrin	0.041	0.0021	EPA 8081B	4-22-25	4-22-25	P
Heptachlor epoxide	ND	0.0052	EPA 8081B	4-22-25	4-22-25	
gamma-Chlordane	ND	0.0052	EPA 8081B	4-22-25	4-22-25	
alpha-Chlordane	0.034	0.0052	EPA 8081B	4-22-25	4-22-25	Y1
4,4'-DDE	0.0061	0.0052	EPA 8081B	4-22-25	4-22-25	Y1,P
Endosulfan I	ND	0.0052	EPA 8081B	4-22-25	4-22-25	
Dieldrin	ND	0.0052	EPA 8081B	4-22-25	4-22-25	Y1
Endrin	0.087	0.0052	EPA 8081B	4-22-25	4-22-25	
4,4'-DDD	ND	0.0052	EPA 8081B	4-22-25	4-22-25	
Endosulfan II	ND	0.0052	EPA 8081B	4-22-25	4-22-25	
4,4'-DDT	ND	0.0052	EPA 8081B	4-22-25	4-22-25	Y1
Endrin aldehyde	ND	0.0052	EPA 8081B	4-22-25	4-22-25	
Methoxychlor	0.89	0.052	EPA 8081B	4-22-25	4-25-25	
Endosulfan sulfate	ND	0.0052	EPA 8081B	4-22-25	4-22-25	Y1
Endrin ketone	0.047	0.010	EPA 8081B	4-22-25	4-22-25	Y1,P
Toxaphene	ND	0.052	EPA 8081B	4-22-25	4-22-25	
Tech Chlordane	ND	0.026	EPA 8081B	4-22-25	4-22-25	
Surrogate:	*Percent Recovery*	*Control limits*				
Tetrachloro-m-xylene	*36*	*21-113*				
Decachlorobiphenyl	*87*	*45-133*				

Date of Report: April 29, 2025
Samples Submitted: April 18, 2025
Laboratory Reference: 2504-304
Project: Sunnyside Airport

ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-4**					
Laboratory ID:	04-304-05					
HCBD	ND	0.0051	EPA 8081B	4-22-25	4-22-25	Y1
Hexachlorobenzene	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
alpha-BHC	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
gamma-BHC	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
beta-BHC	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
delta-BHC	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
Heptachlor	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
Aldrin	0.0057	0.0020	EPA 8081B	4-22-25	4-22-25	P
Heptachlor epoxide	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
gamma-Chlordane	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
alpha-Chlordane	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
4,4'-DDE	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
Endosulfan I	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
Dieldrin	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
Endrin	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
4,4'-DDD	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
Endosulfan II	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
4,4'-DDT	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
Endrin aldehyde	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
Methoxychlor	ND	0.010	EPA 8081B	4-22-25	4-22-25	
Endosulfan sulfate	ND	0.0051	EPA 8081B	4-22-25	4-22-25	
Endrin ketone	ND	0.010	EPA 8081B	4-22-25	4-22-25	
Toxaphene	ND	0.051	EPA 8081B	4-22-25	4-22-25	
Tech Chlordane	ND	0.025	EPA 8081B	4-22-25	4-22-25	
Surrogate:	*Percent Recovery*	*Control limits*				
Tetrachloro-m-xylene	*40*	*21-113*				
Decachlorobiphenyl	*67*	*45-133*				

Date of Report: April 29, 2025
Samples Submitted: April 18, 2025
Laboratory Reference: 2504-304
Project: Sunnyside Airport

ORGANOCHLORINE PESTICIDES EPA 8081B QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0422W1					
HCBD	ND	0.0050	EPA 8081B	4-22-25	4-22-25	Y1
Hexachlorobenzene	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
alpha-BHC	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
gamma-BHC	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
beta-BHC	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
delta-BHC	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
Heptachlor	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
Aldrin	ND	0.0020	EPA 8081B	4-22-25	4-22-25	
Heptachlor epoxide	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
gamma-Chlordane	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
alpha-Chlordane	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
4,4'-DDE	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
Endosulfan I	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
Dieldrin	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
Endrin	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
4,4'-DDD	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
Endosulfan II	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
4,4'-DDT	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
Endrin aldehyde	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
Methoxychlor	ND	0.010	EPA 8081B	4-22-25	4-22-25	
Endosulfan sulfate	ND	0.0050	EPA 8081B	4-22-25	4-22-25	
Endrin ketone	ND	0.010	EPA 8081B	4-22-25	4-22-25	
Toxaphene	ND	0.050	EPA 8081B	4-22-25	4-22-25	
Tech Chlordane	ND	0.025	EPA 8081B	4-22-25	4-22-25	
Surrogate:	*Percent Recovery*	*Control limits*				
Tetrachloro-m-xylene	*61*	*21-113*				
Decachlorobiphenyl	*85*	*45-133*				

Date of Report: April 29, 2025
Samples Submitted: April 18, 2025
Laboratory Reference: 2504-304
Project: Sunnyside Airport

ORGANOCHLORINE PESTICIDES EPA 8081B QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	04-304-05										
	MS	MSD	MS	MSD		MS	MSD				
alpha-BHC	**0.0563**	**0.0575**	0.0984	0.101	**ND**	**57**	**57**	50-130	2	15	
gamma-BHC	**0.0638**	**0.0640**	0.0984	0.101	**ND**	**65**	**63**	50-130	0	15	
beta-BHC	**0.0573**	**0.0572**	0.0984	0.101	**ND**	**58**	**57**	50-130	0	15	
delta-BHC	**0.0567**	**0.0561**	0.0984	0.101	**ND**	**58**	**56**	50-130	1	15	
Heptachlor	**0.0600**	**0.0619**	0.0984	0.101	**ND**	**61**	**61**	50-130	3	15	
Aldrin	**0.0595**	**0.0595**	0.0984	0.101	**0.00572**	**60**	**59**	50-130	0	15	
Heptachlor epoxide	**0.0694**	**0.0692**	0.0984	0.101	**ND**	**71**	**69**	50-130	0	15	
gamma-Chlordane	**0.0597**	**0.0594**	0.0984	0.101	**ND**	**61**	**59**	50-130	1	15	
alpha-Chlordane	**0.0676**	**0.0687**	0.0984	0.101	**ND**	**69**	**68**	50-130	2	15	
4,4'-DDE	**0.0719**	**0.0715**	0.0984	0.101	**ND**	**73**	**71**	50-130	1	15	
Endosulfan I	**0.0726**	**0.0730**	0.0984	0.101	**ND**	**74**	**72**	50-130	1	15	
Dieldrin	**0.0688**	**0.0675**	0.0984	0.101	**ND**	**70**	**67**	50-130	2	15	
Endrin	**0.0838**	**0.0838**	0.0984	0.101	**ND**	**85**	**83**	50-130	0	15	
4,4'-DDD	**0.0716**	**0.0718**	0.0984	0.101	**ND**	**73**	**71**	50-130	0	15	
Endosulfan II	**0.0746**	**0.0733**	0.0984	0.101	**ND**	**76**	**73**	50-130	2	15	
4,4'-DDT	**0.0788**	**0.0790**	0.0984	0.101	**ND**	**80**	**78**	50-130	0	15	
Endrin aldehyde	**0.0673**	**0.0670**	0.0984	0.101	**ND**	**68**	**66**	50-130	0	15	
Methoxychlor	**0.0917**	**0.0919**	0.0984	0.101	**ND**	**93**	**91**	50-130	0	15	
Endosulfan sulfate	**0.0675**	**0.0676**	0.0984	0.101	**ND**	**69**	**67**	50-130	0	15	
Endrin ketone	**0.0709**	**0.0703**	0.0984	0.101	**ND**	**72**	**70**	50-130	1	15	
Surrogate:											
Tetrachloro-m-xylene						*32*	*36*	*21-113*			
Decachlorobiphenyl						*64*	*60*	*45-133*			

Date of Report: April 29, 2025
Samples Submitted: April 18, 2025
Laboratory Reference: 2504-304
Project: Sunnyside Airport

ORGANOPHOSPHORUS PESTICIDES EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-1**					
Laboratory ID:	04-304-01					
Dichlorvos(DDVP)	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Mevinphos/Phosdrin	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Ethoprophos	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Monocrotophos	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Naled	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Sulfotepp	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Phorate	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Dimethoate	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Demeton-S	**ND**	0.14	EPA 8270E/SIM	4-23-25	4-23-25	
Diazinon	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Disulfoton	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Parathion-methyl	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Fenchlorphos/Ronnel	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Malathion	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Fenthion	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Parathion-ethyl	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Chlorpyrifos/Dursban	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Trichloronate	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Stirofos/Tetrachlorvinphos	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Tokuthion/Prothiofos	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Merphos&Merphos-oxone	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Fensulfothion	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Bolstar/Sulprofos	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
EPN	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Azinphos-methyl/Guthion	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Coumaphos	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Tributyl phosphate	*75*	*53-143*				
Triphenyl phosphate	*74*	*63-132*				

Date of Report: April 29, 2025
Samples Submitted: April 18, 2025
Laboratory Reference: 2504-304
Project: Sunnyside Airport

ORGANOPHOSPHORUS PESTICIDES EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-2**					
Laboratory ID:	04-304-02					
Dichlorvos(DDVP)	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Mevinphos/Phosdrin	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Ethoprophos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Monocrotophos	**ND**	0.49	EPA 8270E/SIM	4-23-25	4-23-25	
Naled	**ND**	0.49	EPA 8270E/SIM	4-23-25	4-23-25	
Sulfotepp	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Phorate	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Dimethoate	**ND**	0.49	EPA 8270E/SIM	4-23-25	4-23-25	
Demeton-S	**ND**	0.14	EPA 8270E/SIM	4-23-25	4-23-25	
Diazinon	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Disulfoton	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Parathion-methyl	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Fenchlorphos/Ronnel	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Malathion	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Fenthion	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Parathion-ethyl	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Chlorpyrifos/Dursban	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Trichloronate	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Stirofos/Tetrachlorvinphos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Tokuthion/Prothiofos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Merphos&Merphos-oxone	**ND**	0.49	EPA 8270E/SIM	4-23-25	4-23-25	
Fensulfothion	**ND**	0.49	EPA 8270E/SIM	4-23-25	4-23-25	
Bolstar/Sulprofos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
EPN	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Azinphos-methyl/Guthion	**ND**	0.49	EPA 8270E/SIM	4-23-25	4-23-25	
Coumaphos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Tributyl phosphate	*89*	*53-143*				
Triphenyl phosphate	*79*	*63-132*				

Date of Report: April 29, 2025
Samples Submitted: April 18, 2025
Laboratory Reference: 2504-304
Project: Sunnyside Airport

ORGANOPHOSPHORUS PESTICIDES EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-12**					
Laboratory ID:	04-304-03					
Dichlorvos(DDVP)	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Mevinphos/Phosdrin	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Ethoprophos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Monocrotophos	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Naled	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Sulfotepp	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Phorate	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Dimethoate	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Demeton-S	**ND**	0.14	EPA 8270E/SIM	4-23-25	4-23-25	
Diazinon	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Disulfoton	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Parathion-methyl	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Fenchlorphos/Ronnel	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Malathion	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Fenthion	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Parathion-ethyl	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Chlorpyrifos/Dursban	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Trichloronate	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Stirofos/Tetrachlorvinphos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Tokuthion/Prothiofos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Merphos&Merphos-oxone	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Fensulfothion	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Bolstar/Sulprofos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
EPN	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Azinphos-methyl/Guthion	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Coumaphos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Tributyl phosphate	*107*	*53-143*				
Triphenyl phosphate	*98*	*63-132*				

Date of Report: April 29, 2025
Samples Submitted: April 18, 2025
Laboratory Reference: 2504-304
Project: Sunnyside Airport

ORGANOPHOSPHORUS PESTICIDES EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-3**					
Laboratory ID:	04-304-04					
Dichlorvos(DDVP)	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Mevinphos/Phosdrin	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Ethoprophos	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Monocrotophos	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Naled	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Sulfotepp	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Phorate	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Dimethoate	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Demeton-S	**ND**	0.15	EPA 8270E/SIM	4-23-25	4-23-25	
Diazinon	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Disulfoton	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Parathion-methyl	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Fenchlorphos/Ronnel	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Malathion	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Fenthion	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Parathion-ethyl	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Chlorpyrifos/Dursban	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Trichloronate	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Stirofos/Tetrachlorvinphos	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Tokuthion/Prothiofos	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Merphos&Merphos-oxone	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Fensulfothion	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Bolstar/Sulprofos	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
EPN	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Azinphos-methyl/Guthion	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Coumaphos	**ND**	0.21	EPA 8270E/SIM	4-23-25	4-23-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Tributyl phosphate	*82*	*53-143*				
Triphenyl phosphate	*88*	*63-132*				

Date of Report: April 29, 2025
Samples Submitted: April 18, 2025
Laboratory Reference: 2504-304
Project: Sunnyside Airport

ORGANOPHOSPHORUS PESTICIDES EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-4**					
Laboratory ID:	04-304-05					
Dichlorvos(DDVP)	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Mevinphos/Phosdrin	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Ethoprophos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Monocrotophos	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Naled	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Sulfotepp	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Phorate	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Dimethoate	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Demeton-S	**ND**	0.14	EPA 8270E/SIM	4-23-25	4-23-25	
Diazinon	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Disulfoton	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Parathion-methyl	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Fenchlorphos/Ronnel	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Malathion	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Fenthion	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Parathion-ethyl	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Chlorpyrifos/Dursban	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Trichloronate	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Stirofos/Tetrachlorvinphos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Tokuthion/Prothiofos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Merphos&Merphos-oxone	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Fensulfothion	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Bolstar/Sulprofos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
EPN	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Azinphos-methyl/Guthion	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Coumaphos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Tributyl phosphate	*108*	*53-143*				
Triphenyl phosphate	*95*	*63-132*				

Date of Report: April 29, 2025
Samples Submitted: April 18, 2025
Laboratory Reference: 2504-304
Project: Sunnyside Airport

ORGANOPHOSPHORUS PESTICIDES EPA 8270E/SIM QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0423W1					
Dichlorvos(DDVP)	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Mevinphos/Phosdrin	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Ethoprophos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Monocrotophos	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Naled	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Sulfotepp	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Phorate	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Dimethoate	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Demeton-S	**ND**	0.14	EPA 8270E/SIM	4-23-25	4-23-25	
Diazinon	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Disulfoton	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Parathion-methyl	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Fenchlorphos/Ronnel	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Malathion	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Fenthion	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Parathion-ethyl	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Chlorpyrifos/Dursban	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Trichloronate	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Stirofos/Tetrachlorvinphos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Tokuthion/Prothiofos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Merphos&Merphos-oxone	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Fensulfothion	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Bolstar/Sulprofos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
EPN	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Azinphos-methyl/Guthion	**ND**	0.50	EPA 8270E/SIM	4-23-25	4-23-25	
Coumaphos	**ND**	0.20	EPA 8270E/SIM	4-23-25	4-23-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Tributyl phosphate	*97*	*53-143*				
Triphenyl phosphate	*72*	*63-132*				

Date of Report: April 29, 2025
Samples Submitted: April 18, 2025
Laboratory Reference: 2504-304
Project: Sunnyside Airport

ORGANOPHOSPHORUS PESTICIDES EPA 8270E/SIM QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	04-304-05										
	MS	MSD	MS	MSD		MS	MSD				
Dichlorvos(DDVP)	**0.968**	**0.837**	1.01	1.00	ND	96	84	43-115	15	30	
Mevinphos/Phosdrin	**1.08**	**0.981**	1.01	1.00	ND	107	98	54-123	10	30	
Ethoprophos	**1.01**	**0.833**	1.01	1.00	ND	100	83	52-121	19	30	
Sulfotepp	**0.877**	**0.702**	1.01	1.00	ND	87	70	64-100	22	30	
Phorate	**0.795**	**0.700**	1.01	1.00	ND	79	70	38-111	13	30	
Dimethoate	**0.889**	**0.833**	1.01	1.00	ND	88	83	34-136	7	30	
Demeton-S	**0.768**	**0.640**	0.704	0.703	ND	109	91	41-117	18	30	
Diazinon	**0.919**	**0.857**	1.01	1.00	ND	91	86	54-121	7	30	
Disulfoton	**0.940**	**0.832**	1.01	1.00	ND	93	83	38-104	12	30	
Parathion-methyl	**0.929**	**0.893**	1.01	1.00	ND	92	89	52-135	4	30	
Fenchlorphos/Ronnel	**0.808**	**0.753**	1.01	1.00	ND	80	75	52-114	7	30	
Malathion	**1.19**	**1.08**	1.01	1.00	ND	118	108	71-107	10	30	I,I
Fenthion	**0.944**	**0.884**	1.01	1.00	ND	93	88	61-108	7	30	
Parathion-ethyl	**0.950**	**0.882**	1.01	1.00	ND	94	88	65-103	7	30	
Chlorpyrifos/Dursban	**0.863**	**0.818**	1.01	1.00	ND	85	82	59-109	5	30	
Trichloronate	**0.816**	**0.743**	1.01	1.00	ND	81	74	51-103	9	30	
Stirofos/Tetrachlorvinphos	**1.22**	**1.18**	1.01	1.00	ND	121	118	50-160	3	30	
Tokuthion/Prothiofos	**0.979**	**0.861**	1.01	1.00	ND	97	86	58-112	13	30	
Fensulfothion	**1.18**	**1.07**	1.01	1.00	ND	117	107	57-139	10	30	
Bolstar/Sulprofos	**0.911**	**0.824**	1.01	1.00	ND	90	82	22-130	10	30	
EPN	**1.01**	**0.953**	1.01	1.00	ND	100	95	59-111	6	30	
Azinphos-methyl/Guthion	**1.05**	**0.984**	1.01	1.00	ND	104	98	41-155	6	30	
Coumaphos	**1.01**	**0.982**	1.01	1.00	ND	100	98	45-148	3	30	
Surrogate:											
Tributyl phosphate						*108*	*108*	*53-143*			
Triphenyl phosphate						*99*	*89*	*63-132*			

Date of Report: April 29, 2025
Samples Submitted: April 18, 2025
Laboratory Reference: 2504-304
Project: Sunnyside Airport

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-1**					
Laboratory ID:	04-304-01					
Nitrate	**65**	1.0	EPA 353.2	4-18-25	4-18-25	
Client ID:	**SMW-2**					
Laboratory ID:	04-304-02					
Nitrate	**54**	1.0	EPA 353.2	4-18-25	4-18-25	
Client ID:	**SMW-12**					
Laboratory ID:	04-304-03					
Nitrate	**58**	1.0	EPA 353.2	4-18-25	4-18-25	
Client ID:	**SMW-3**					
Laboratory ID:	04-304-04					
Nitrate	**220**	5.0	EPA 353.2	4-18-25	4-18-25	
Client ID:	**SMW-4**					
Laboratory ID:	04-304-05					
Nitrate	**15**	0.50	EPA 353.2	4-18-25	4-18-25	

Date of Report: April 29, 2025
Samples Submitted: April 18, 2025
Laboratory Reference: 2504-304
Project: Sunnyside Airport

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0418W1					
Nitrate	**ND**	0.050	EPA 353.2	4-18-25	4-18-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-304-05										
	ORIG	DUP									
Nitrate	**15.2**	**15.3**	NA		NA	NA		NA	1	22	
MATRIX SPIKES											
Laboratory ID:	04-304-05										
	MS	MSD	MS	MSD		MS	MSD				
Nitrate	**35.9**	**37.1**	20.0	20.0	15.2	104	110	86-119	3	20	
SPIKE BLANK											
Laboratory ID:	SB0418W1										
	SB		SB			SB					
Nitrate	**2.16**		2.00		NA	108		85-117	NA	NA	

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

3600 Fremont Ave N
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

OnSite Environmental Inc
David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 04-304, Sunnyside Airport
Work Order Number: 2504517

April 28, 2025

Attention David Baumeister:

Alliance Technical Group, LLC - Seattle received 5 sample(s) on 4/21/2025 for the analyses presented in the following report.

Herbicides by EPA 8151A (GC/MS)

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Alliance Technical Group is committed to accuracy, speed, and customer service. Thank you for choosing Alliance Technical Group's Seattle laboratory team for your analytical needs. We appreciate this opportunity to serve you!

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

Date: *04/29/2025*

CLIENT: OnSite Environmental Inc
Project: 04-304
Work Order: 2504517

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2504517-001	SMW-1	04/17/2025 2:35 PM	04/21/2025 12:56 PM
2504517-002	SMW-2	04/17/2025 12:25 PM	04/21/2025 12:56 PM
2504517-003	SMW-12	04/17/2025 12:30 PM	04/21/2025 12:56 PM
2504517-004	SMW-3	04/17/2025 6:30 PM	04/21/2025 12:56 PM
2504517-005	SMW-4	04/17/2025 4:40 PM	04/21/2025 12:56 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

Case Narrative

WO#: **2504517**

Date: **4/28/2025**

CLIENT: OnSite Environmental Inc
Project: 04-304

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
DUP - Sample Duplicate
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MCL - Maximum Contaminant Level
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
REP - Sample Replicate
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Analytical Report

Work Order: **2504517**
Date Reported: **4/28/2025**

Client: OnSite Environmental Inc
Collection Date: 4/17/2025 2:35:00 PM
Project: 04-304
Lab ID: 2504517-001
Matrix: Water
Client Sample ID: **SMW-1**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Herbicides by EPA 8151A (GC/MS)				Batch ID: 47447		Analyst: SH
Dicamba	ND	0.193		µg/L	1	4/28/2025 3:02:22 PM
2,4-D	ND	0.193		µg/L	1	4/28/2025 3:02:22 PM
2,4-DP	ND	0.193		µg/L	1	4/28/2025 3:02:22 PM
2,4,5-TP (Silvex)	ND	0.386		µg/L	1	4/28/2025 3:02:22 PM
2,4,5-T	ND	0.193		µg/L	1	4/28/2025 3:02:22 PM
Dinoseb	ND	1.45		µg/L	1	4/28/2025 3:02:22 PM
Dalapon	ND	1.16		µg/L	1	4/28/2025 3:02:22 PM
2,4-DB	ND	0.483		µg/L	1	4/28/2025 3:02:22 PM
MCPP	ND	1.93		µg/L	1	4/28/2025 3:02:22 PM
MCPA	ND	1.93		µg/L	1	4/28/2025 3:02:22 PM
Picloram	ND	0.386		µg/L	1	4/28/2025 3:02:22 PM
Bentazon	ND	0.483		µg/L	1	4/28/2025 3:02:22 PM
Chloramben	ND	0.290		µg/L	1	4/28/2025 3:02:22 PM
Acifluorfen	ND	0.676		µg/L	1	4/28/2025 3:02:22 PM
3,5-Dichlorobenzoic acid	ND	0.290		µg/L	1	4/28/2025 3:02:22 PM
4-Nitrophenol	ND	4.83		µg/L	1	4/28/2025 3:02:22 PM
Dacthal (DCPA)	ND	4.83		µg/L	1	4/28/2025 3:02:22 PM
Surr: 2,4-Dichlorophenylacetic acid	141	62.2 - 160		%Rec	1	4/28/2025 3:02:22 PM

Analytical Report

Work Order: **2504517**
Date Reported: **4/28/2025**

Client: OnSite Environmental Inc
Collection Date: 4/17/2025 12:25:00 PM
Project: 04-304
Lab ID: 2504517-002
Matrix: Water
Client Sample ID: **SMW-2**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Herbicides by EPA 8151A (GC/MS)				Batch ID: 47447		Analyst: SH
Dicamba	ND	0.199		µg/L	1	4/28/2025 3:23:00 PM
2,4-D	ND	0.199		µg/L	1	4/28/2025 3:23:00 PM
2,4-DP	ND	0.199		µg/L	1	4/28/2025 3:23:00 PM
2,4,5-TP (Silvex)	ND	0.398		µg/L	1	4/28/2025 3:23:00 PM
2,4,5-T	ND	0.199		µg/L	1	4/28/2025 3:23:00 PM
Dinoseb	ND	1.49		µg/L	1	4/28/2025 3:23:00 PM
Dalapon	ND	1.19		µg/L	1	4/28/2025 3:23:00 PM
2,4-DB	ND	0.497		µg/L	1	4/28/2025 3:23:00 PM
MCPP	ND	1.99		µg/L	1	4/28/2025 3:23:00 PM
MCPA	ND	1.99		µg/L	1	4/28/2025 3:23:00 PM
Picloram	ND	0.398		µg/L	1	4/28/2025 3:23:00 PM
Bentazon	ND	0.497		µg/L	1	4/28/2025 3:23:00 PM
Chloramben	ND	0.298		µg/L	1	4/28/2025 3:23:00 PM
Acifluorfen	ND	0.696		µg/L	1	4/28/2025 3:23:00 PM
3,5-Dichlorobenzoic acid	ND	0.298		µg/L	1	4/28/2025 3:23:00 PM
4-Nitrophenol	ND	4.97		µg/L	1	4/28/2025 3:23:00 PM
Dacthal (DCPA)	ND	4.97		µg/L	1	4/28/2025 3:23:00 PM
Surr: 2,4-Dichlorophenylacetic acid	136	62.2 - 160		%Rec	1	4/28/2025 3:23:00 PM

Analytical Report

Work Order: **2504517**
Date Reported: **4/28/2025**

Client: OnSite Environmental Inc
Collection Date: 4/17/2025 12:30:00 PM
Project: 04-304
Lab ID: 2504517-003
Matrix: Water
Client Sample ID: **SMW-12**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Herbicides by EPA 8151A (GC/MS)				Batch ID: 47447		Analyst: SH
Dicamba	ND	0.199		µg/L	1	4/28/2025 3:43:40 PM
2,4-D	ND	0.199		µg/L	1	4/28/2025 3:43:40 PM
2,4-DP	ND	0.199		µg/L	1	4/28/2025 3:43:40 PM
2,4,5-TP (Silvex)	ND	0.399		µg/L	1	4/28/2025 3:43:40 PM
2,4,5-T	ND	0.199		µg/L	1	4/28/2025 3:43:40 PM
Dinoseb	ND	1.49		µg/L	1	4/28/2025 3:43:40 PM
Dalapon	ND	1.20		µg/L	1	4/28/2025 3:43:40 PM
2,4-DB	ND	0.498		µg/L	1	4/28/2025 3:43:40 PM
MCPP	ND	1.99		µg/L	1	4/28/2025 3:43:40 PM
MCPA	ND	1.99		µg/L	1	4/28/2025 3:43:40 PM
Picloram	ND	0.399		µg/L	1	4/28/2025 3:43:40 PM
Bentazon	ND	0.498		µg/L	1	4/28/2025 3:43:40 PM
Chloramben	ND	0.299		µg/L	1	4/28/2025 3:43:40 PM
Acifluorfen	ND	0.697		µg/L	1	4/28/2025 3:43:40 PM
3,5-Dichlorobenzoic acid	ND	0.299		µg/L	1	4/28/2025 3:43:40 PM
4-Nitrophenol	ND	4.98		µg/L	1	4/28/2025 3:43:40 PM
Dacthal (DCPA)	ND	4.98		µg/L	1	4/28/2025 3:43:40 PM
Surr: 2,4-Dichlorophenylacetic acid	125	62.2 - 160		%Rec	1	4/28/2025 3:43:40 PM

Analytical Report

Work Order: **2504517**
Date Reported: **4/28/2025**

Client: OnSite Environmental Inc
Collection Date: 4/17/2025 6:30:00 PM
Project: 04-304
Lab ID: 2504517-004
Matrix: Water
Client Sample ID: **SMW-3**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Herbicides by EPA 8151A (GC/MS)				Batch ID: 47447		Analyst: SH
Dicamba	ND	0.200		µg/L	1	4/28/2025 1:38:46 PM
2,4-D	ND	0.200		µg/L	1	4/28/2025 1:38:46 PM
2,4-DP	ND	0.200		µg/L	1	4/28/2025 1:38:46 PM
2,4,5-TP (Silvex)	ND	0.399		µg/L	1	4/28/2025 1:38:46 PM
2,4,5-T	ND	0.200		µg/L	1	4/28/2025 1:38:46 PM
Dinoseb	4.19	1.50		µg/L	1	4/28/2025 1:38:46 PM
Dalapon	ND	1.20		µg/L	1	4/28/2025 1:38:46 PM
2,4-DB	ND	0.499		µg/L	1	4/28/2025 1:38:46 PM
MCPP	ND	2.00		µg/L	1	4/28/2025 1:38:46 PM
MCPA	ND	2.00		µg/L	1	4/28/2025 1:38:46 PM
Picloram	0.440	0.399		µg/L	1	4/28/2025 1:38:46 PM
Bentazon	ND	0.499		µg/L	1	4/28/2025 1:38:46 PM
Chloramben	ND	0.300		µg/L	1	4/28/2025 1:38:46 PM
Acifluorfen	ND	0.699		µg/L	1	4/28/2025 1:38:46 PM
3,5-Dichlorobenzoic acid	ND	0.300		µg/L	1	4/28/2025 1:38:46 PM
4-Nitrophenol	ND	4.99		µg/L	1	4/28/2025 1:38:46 PM
Dacthal (DCPA)	ND	4.99		µg/L	1	4/28/2025 1:38:46 PM
Surr: 2,4-Dichlorophenylacetic acid	121	62.2 - 160		%Rec	1	4/28/2025 1:38:46 PM

Analytical Report

Work Order: **2504517**
Date Reported: **4/28/2025**

Client: OnSite Environmental Inc
Collection Date: 4/17/2025 4:40:00 PM
Project: 04-304
Lab ID: 2504517-005
Matrix: Water
Client Sample ID: **SMW-4**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Herbicides by EPA 8151A (GC/MS)				Batch ID: 47447		Analyst: SH
Dicamba	ND	0.200		µg/L	1	4/28/2025 1:59:43 PM
2,4-D	ND	0.200		µg/L	1	4/28/2025 1:59:43 PM
2,4-DP	ND	0.200		µg/L	1	4/28/2025 1:59:43 PM
2,4,5-TP (Silvex)	ND	0.399		µg/L	1	4/28/2025 1:59:43 PM
2,4,5-T	ND	0.200		µg/L	1	4/28/2025 1:59:43 PM
Dinoseb	15.3	1.50		µg/L	1	4/28/2025 1:59:43 PM
Dalapon	ND	1.20		µg/L	1	4/28/2025 1:59:43 PM
2,4-DB	ND	0.499		µg/L	1	4/28/2025 1:59:43 PM
MCPP	ND	2.00		µg/L	1	4/28/2025 1:59:43 PM
MCPA	ND	2.00		µg/L	1	4/28/2025 1:59:43 PM
Picloram	ND	0.399		µg/L	1	4/28/2025 1:59:43 PM
Bentazon	0.843	0.499		µg/L	1	4/28/2025 1:59:43 PM
Chloramben	ND	0.300		µg/L	1	4/28/2025 1:59:43 PM
Acifluorfen	ND	0.699		µg/L	1	4/28/2025 1:59:43 PM
3,5-Dichlorobenzoic acid	ND	0.300		µg/L	1	4/28/2025 1:59:43 PM
4-Nitrophenol	ND	4.99		µg/L	1	4/28/2025 1:59:43 PM
Dacthal (DCPA)	ND	4.99		µg/L	1	4/28/2025 1:59:43 PM
Surr: 2,4-Dichlorophenylacetic acid	137	62.2 - 160		%Rec	1	4/28/2025 1:59:43 PM

Work Order: 2504517
CLIENT: OnSite Environmental Inc
Project: 04-304

QC SUMMARY REPORT

Herbicides by EPA 8151A (GC/MS)

Sample ID: **MB-47447** SampType: **MBLK** Units: **µg/L** Prep Date: **4/22/2025** RunNo: **99301**
Client ID: **MBLKW** Batch ID: **47447** Analysis Date: **4/28/2025** SeqNo: **2068350**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	ND	0.200									
2,4-D	ND	0.200									
2,4-DP	ND	0.200									
2,4,5-TP (Silvex)	ND	0.400									
2,4,5-T	ND	0.200									
Dinoseb	ND	1.50									
Dalapon	ND	1.20									
2,4-DB	ND	0.500									
MCPP	ND	2.00									
MCPA	ND	2.00									
Picloram	ND	0.400									
Bentazon	ND	0.500									
Chloramben	ND	0.300									
Acifluorfen	ND	0.700									
3,5-Dichlorobenzoic acid	ND	0.300									
4-Nitrophenol	ND	5.00									
Dacthal (DCPA)	ND	5.00									
Surr: 2,4-Dichlorophenylacetic acid	21.7		20.00		108	62.9	132				

Sample ID: **LCS-47447** SampType: **LCS** Units: **µg/L** Prep Date: **4/22/2025** RunNo: **99301**
Client ID: **LCSW** Batch ID: **47447** Analysis Date: **4/28/2025** SeqNo: **2068351**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.46	0.200	4.000	0	111	41	138				
2,4-D	4.82	0.200	4.000	0	121	54.2	158				
2,4-DP	4.59	0.200	4.000	0	115	40.2	144				
2,4,5-TP (Silvex)	4.54	0.400	4.000	0	113	45.6	148				
2,4,5-T	3.76	0.200	4.000	0	94.0	46.2	135				
Dinoseb	3.60	1.50	4.000	0	90.0	9.28	113				
Dalapon	13.2	1.20	20.00	0	66.1	39.6	96.4				
2,4-DB	4.39	0.500	4.000	0	110	47.3	134				

Work Order: 2504517
CLIENT: OnSite Environmental Inc
Project: 04-304

QC SUMMARY REPORT

Herbicides by EPA 8151A (GC/MS)

Sample ID: **LCS-47447** SampType: **LCS** Units: **µg/L** Prep Date: **4/22/2025** RunNo: **99301**
Client ID: **LCSW** Batch ID: **47447** Analysis Date: **4/28/2025** SeqNo: **2068351**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MCPP	22.4	2.00	20.00	0	112	63.3	144				
MCPA	21.7	2.00	20.00	0	109	65.6	140				
Picloram	2.68	0.400	4.000	0	67.1	35	119				
Bentazon	4.12	0.500	4.000	0	103	50	152				
Chloramben	1.86	0.300	4.000	0	46.6	7.76	101				
Acifluorfen	2.87	0.700	4.000	0	71.7	18.5	125				
3,5-Dichlorobenzoic acid	4.41	0.300	4.000	0	110	59.3	149				
4-Nitrophenol	1.38	5.00	4.000	0	34.5	5	108				
Dacthal (DCPA)	1.49	5.00	4.000	0	37.3	5.69	99.5				
Surr: 2,4-Dichlorophenylacetic acid	24.2		20.00		121	62.2	160				

Sample ID: **2504517-005AMS** SampType: **MS** Units: **µg/L** Prep Date: **4/22/2025** RunNo: **99301**
Client ID: **SMW-4** Batch ID: **47447** Analysis Date: **4/28/2025** SeqNo: **2068395**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.51	0.200	3.996	0	113	59.6	136				
2,4-D	4.76	0.200	3.996	0	119	52.5	166				
2,4-DP	4.65	0.200	3.996	0	116	52.7	147				
2,4,5-TP (Silvex)	4.50	0.400	3.996	0	113	60.2	149				
2,4,5-T	3.73	0.200	3.996	0	93.3	58.8	150				
Dinoseb	17.6	1.50	3.996	15.28	58.8	21.2	133				
Dalapon	13.7	1.20	19.98	0	68.4	29.7	94.2				
2,4-DB	4.58	0.500	3.996	0	114	41.6	159				
MCPP	22.5	2.00	19.98	0	113	55.1	139				
MCPA	21.8	2.00	19.98	0	109	56.2	139				
Picloram	2.52	0.400	3.996	0	63.0	16.6	132				
Bentazon	4.92	0.500	3.996	0.8427	102	45.6	158				
Chloramben	2.32	0.300	3.996	0	58.0	7.42	100				
Acifluorfen	3.12	0.699	3.996	0	78.1	16	149				
3,5-Dichlorobenzoic acid	4.37	0.300	3.996	0	109	49.3	137				
4-Nitrophenol	0.38	5.00	3.996	0	9.51	5	116				

Work Order: 2504517
CLIENT: OnSite Environmental Inc
Project: 04-304

QC SUMMARY REPORT

Herbicides by EPA 8151A (GC/MS)

Sample ID: **2504517-005AMS** SampType: **MS** Units: **µg/L** Prep Date: **4/22/2025** RunNo: **99301**
Client ID: **SMW-4** Batch ID: **47447** Analysis Date: **4/28/2025** SeqNo: **2068395**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dacthal (DCPA)	1.23	5.00	3.996	0	30.7	5	79.4				
Surr: 2,4-Dichlorophenylacetic acid	23.5		19.98		118	62.2	160				

Sample ID: **2504517-005AMSD** SampType: **MSD** Units: **µg/L** Prep Date: **4/22/2025** RunNo: **99301**
Client ID: **SMW-4** Batch ID: **47447** Analysis Date: **4/28/2025** SeqNo: **2068418**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.77	0.200	3.994	0	119	59.6	136	4.513	5.45	50	
2,4-D	5.02	0.200	3.994	0	126	52.5	166	4.765	5.26	50	
2,4-DP	4.81	0.200	3.994	0	120	52.7	147	4.650	3.43	50	
2,4,5-TP (Silvex)	4.50	0.399	3.994	0	113	60.2	149	4.500	0.0741	50	
2,4,5-T	3.96	0.200	3.994	0	99.2	58.8	150	3.730	6.03	50	
Dinoseb	18.2	1.50	3.994	15.28	72.2	21.2	133	17.63	2.99	50	
Dalapon	14.0	1.20	19.97	0	70.1	29.7	94.2	13.67	2.35	50	
2,4-DB	4.60	0.499	3.994	0	115	41.6	159	4.576	0.444	50	
MCPP	23.7	2.00	19.97	0	119	55.1	139	22.51	5.11	50	
MCPA	22.8	2.00	19.97	0	114	56.2	139	21.78	4.74	50	
Picloram	2.61	0.399	3.994	0	65.4	16.6	132	2.516	3.68	50	
Bentazon	5.10	0.499	3.994	0.8427	107	45.6	158	4.917	3.70	50	
Chloramben	2.46	0.300	3.994	0	61.5	7.42	100	2.318	5.78	50	
Acifluorfen	3.00	0.699	3.994	0	75.2	16	149	3.121	3.89	50	
3,5-Dichlorobenzoic acid	4.61	0.300	3.994	0	115	49.3	137	4.370	5.36	50	
4-Nitrophenol	0.341	4.99	3.994	0	8.54	5	116	0		50	
Dacthal (DCPA)	1.23	4.99	3.994	0	30.8	5	79.4	0		50	
Surr: 2,4-Dichlorophenylacetic acid	22.7		19.97		114	62.2	160		0		

Sample Log-In Check List

Client Name:	ONSITE	Work Order Number:	2504517
Logged by:	Morgan Wilson	Date Received:	4/21/2025 12:56:00 PM

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Courier		

Log In

3.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Present ☑
4.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5.	Were all items received at a temperature of >2°C to 6°C *	Yes ☑	No ☐	NA ☐
6.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
7.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8.	Are samples properly preserved?	Yes ☑	No ☐	
9.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
11.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
12.	Does paperwork match bottle labels?	Yes ☑	No ☐	
13.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14.	Is it clear what analyses were requested?	Yes ☑	No ☐	
15.	Were all hold times (except field parameters, pH e.g.) able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

Item Information

Item #	Temp ºC
Sample	3.0

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2504517

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 04-304

Laboratory: Fremont Analytical

Attention: Chelsea Ward

3600 Fremont Avenue N, Seattle, WA 98103

Phone Number: (206) 352-3790

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: 5 Day

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: Sunnyside Airport

Project Name:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	SMW-1	4/17/25	14:35	W	2	Chlorinated Acid Herbicides 8151
	SMW-2	4/17/25	12:25	W	2	Chlorinated Acid Herbicides 8151
	SMW-12	4/17/25	12:30	W	2	Chlorinated Acid Herbicides 8151
	SMW-3	4/17/25	18:30	W	2	Chlorinated Acid Herbicides 8151
	SMW-4	4/17/25	16:40	W	4	Chlorinated Acid Herbicides 8151 - MS/MSD

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	4/21/25	11:21	
Received by:	GAM	4/21/25	11:21	
Relinquished by:	GAM	4/21/25	12:50	
Received by:	ATG	4/21/25	12:56	Centrifuge samples prior to analysis
Relinquished by:				
Received by:				

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Mott MacDonald
Project Number:
Project Name: Sunnyside Airport
Project Manager: Eric Cutler
Sampled by: Ashley Parkhurst

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days)
- ☒ 5 DAY TAT expedited (other)

Laboratory Number: 04-304

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	nitrates	herbicides		MS/MSD	% Moisture
1	SMW-1	4/17/25	1435	W	7											X	X						X	X			
2	SMW-2		1225	W	7											X	X						X	X			
3	SMW-12		1230	W	7											X	X						X	X			
4	SMW-3		1830	W	7											X	X						X	X			
5	SMW-4		1640	W	7											X	X						X	X		X	
6	SMW-4 MS/MSD		1650	W	7											X	X						X	X			23

	Signature	Company	Date	Time
Relinquished		Mott MacDonald	4/18/25	1016
Received		Spdy	4/18/25	1016
Relinquished		Spdy	4/18/25	1130
Received		OBE	4/18/25	1130
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 5, 2025

Eric Cutler
Mott MacDonald
1601 5th Ave #800
Seattle, WA 98101

Re: Analytical Data for Project Sunnyside Airport
Laboratory Reference No. 2505-382

Dear Eric:

Enclosed are the analytical results and associated quality control data for samples submitted on May 29, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

Case Narrative

Samples were collected on May 28, 2025 and received by the laboratory on May 29, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Organochlorine Pesticides by EPA 8081B Analysis

Project requested PQLs not achievable for all samples due to high levels of interferences present. These compounds were reported at the lowest level possible.

The Toxaphene results for samples SMW-1, SMW-2, SMW-12, and SMW-3 do not fully match spectral analysis of Toxaphene and should therefore be treated as an approximation.

Organophosphorus Pesticides by EPA 8270/SIM Analyses

Project requested PQLs for DDVP and EPN are not achievable for all samples. These compounds were reported at the lowest level possible.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-1**					
Laboratory ID:	05-382-01					
HCBD	ND	0.0048	EPA 8081B	5-30-25	5-30-25	
Hexachlorobenzene	ND	0.0048	EPA 8081B	5-30-25	5-30-25	
alpha-BHC	0.030	0.0048	EPA 8081B	5-30-25	5-30-25	P
gamma-BHC	ND	0.029	EPA 8081B	5-30-25	5-30-25	Y1,U1
beta-BHC	ND	0.0048	EPA 8081B	5-30-25	5-30-25	
delta-BHC	0.11	0.0048	EPA 8081B	5-30-25	5-30-25	
Heptachlor	ND	0.0048	EPA 8081B	5-30-25	5-30-25	
Aldrin	ND	0.024	EPA 8081B	5-30-25	5-30-25	U1
Heptachlor epoxide	0.0096	0.0048	EPA 8081B	5-30-25	5-30-25	
gamma-Chlordane	ND	0.024	EPA 8081B	5-30-25	5-30-25	U1
alpha-Chlordane	ND	0.033	EPA 8081B	5-30-25	5-30-25	Y1,U1
4,4'-DDE	ND	0.0048	EPA 8081B	5-30-25	5-30-25	Y1
Endosulfan I	0.032	0.0048	EPA 8081B	5-30-25	5-30-25	
Dieldrin	0.065	0.0048	EPA 8081B	5-30-25	5-30-25	
Endrin	0.075	0.0048	EPA 8081B	5-30-25	5-30-25	
4,4'-DDD	ND	0.033	EPA 8081B	5-30-25	5-30-25	Y1,U1
Endosulfan II	ND	0.019	EPA 8081B	5-30-25	5-30-25	U1
4,4'-DDT	0.054	0.0048	EPA 8081B	5-30-25	5-30-25	
Endrin aldehyde	ND	0.033	EPA 8081B	5-30-25	5-30-25	Y1,U1
Methoxychlor	ND	0.076	EPA 8081B	5-30-25	5-30-25	U1
Endosulfan sulfate	ND	0.024	EPA 8081B	5-30-25	5-30-25	U1
Endrin ketone	ND	0.024	EPA 8081B	5-30-25	5-30-25	Y1,U1
Toxaphene	5.4	0.12	EPA 8081B	5-30-25	6-2-25	
Tech Chlordane	ND	0.024	EPA 8081B	5-30-25	5-30-25	
Surrogate:	*Percent Recovery*	*Control limits*				
Tetrachloro-m-xylene	*52*	*21-113*				
Decachlorobiphenyl	*77*	*45-133*				

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-2**					
Laboratory ID:	05-382-02					
HCBD	ND	0.0048	EPA 8081B	5-30-25	5-30-25	Y1
Hexachlorobenzene	ND	0.0048	EPA 8081B	5-30-25	5-30-25	
alpha-BHC	0.0052	0.0048	EPA 8081B	5-30-25	5-30-25	P
gamma-BHC	ND	0.0095	EPA 8081B	5-30-25	5-30-25	Y1,U1
beta-BHC	ND	0.0048	EPA 8081B	5-30-25	5-30-25	Y1
delta-BHC	ND	0.0048	EPA 8081B	5-30-25	5-30-25	
Heptachlor	ND	0.0048	EPA 8081B	5-30-25	5-30-25	
Aldrin	ND	0.0048	EPA 8081B	5-30-25	5-30-25	Y1,U1
Heptachlor epoxide	ND	0.0095	EPA 8081B	5-30-25	5-30-25	Y1,U1
gamma-Chlordane	ND	0.0048	EPA 8081B	5-30-25	5-30-25	Y1
alpha-Chlordane	ND	0.012	EPA 8081B	5-30-25	5-30-25	U1
4,4'-DDE	ND	0.0048	EPA 8081B	5-30-25	5-30-25	Y1
Endosulfan I	ND	0.071	EPA 8081B	5-30-25	5-30-25	Y1,U1
Dieldrin	ND	0.014	EPA 8081B	5-30-25	5-30-25	Y1,U1
Endrin	ND	0.0048	EPA 8081B	5-30-25	5-30-25	Y1
4,4'-DDD	ND	0.0095	EPA 8081B	5-30-25	5-30-25	Y1,U1
Endosulfan II	ND	0.024	EPA 8081B	5-30-25	5-30-25	Y1,U1
4,4'-DDT	0.054	0.0048	EPA 8081B	5-30-25	5-30-25	P
Endrin aldehyde	ND	0.024	EPA 8081B	5-30-25	5-30-25	Y1,U1
Methoxychlor	ND	0.019	EPA 8081B	5-30-25	5-30-25	Y1,U1
Endosulfan sulfate	NS	0.0095	EPA 8081B	5-30-25	5-30-25	U1
Endrin ketone	0.13	0.0048	EPA 8081B	5-30-25	5-30-25	P
Toxaphene	3.5	0.12	EPA 8081B	5-30-25	6-2-25	
Tech Chlordane	ND	0.024	EPA 8081B	5-30-25	5-30-25	
Surrogate:	*Percent Recovery*	*Control limits*				
Tetrachloro-m-xylene	*56*	*21-113*				
Decachlorobiphenyl	*83*	*45-133*				

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-12**					
Laboratory ID:	05-382-03					
HCBD	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
Hexachlorobenzene	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
alpha-BHC	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
gamma-BHC	ND	0.0071	EPA 8081B	5-30-25	5-30-25	Y1,U1
beta-BHC	ND	0.0047	EPA 8081B	5-30-25	5-30-25	Y1
delta-BHC	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
Heptachlor	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
Aldrin	ND	0.0047	EPA 8081B	5-30-25	5-30-25	Y1,U1
Heptachlor epoxide	ND	0.0095	EPA 8081B	5-30-25	5-30-25	Y1,U1
gamma-Chlordane	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
alpha-Chlordane	ND	0.012	EPA 8081B	5-30-25	5-30-25	U1
4,4'-DDE	ND	0.0047	EPA 8081B	5-30-25	5-30-25	Y1
Endosulfan I	ND	0.0047	EPA 8081B	5-30-25	5-30-25	Y1
Dieldrin	ND	0.012	EPA 8081B	5-30-25	5-30-25	Y1,U1
Endrin	ND	0.0047	EPA 8081B	5-30-25	5-30-25	Y1
4,4'-DDD	ND	0.0095	EPA 8081B	5-30-25	5-30-25	U1
Endosulfan II	ND	0.024	EPA 8081B	5-30-25	5-30-25	U1
4,4'-DDT	0.045	0.0047	EPA 8081B	5-30-25	5-30-25	P
Endrin aldehyde	ND	0.019	EPA 8081B	5-30-25	5-30-25	Y1,U1
Methoxychlor	ND	0.028	EPA 8081B	5-30-25	5-30-25	Y1,U1
Endosulfan sulfate	ND	0.0071	EPA 8081B	5-30-25	5-30-25	U1
Endrin ketone	0.11	0.0047	EPA 8081B	5-30-25	5-30-25	P
Toxaphene	3.1	0.12	EPA 8081B	5-30-25	6-2-25	
Tech Chlordane	ND	0.024	EPA 8081B	5-30-25	5-30-25	
Surrogate:	*Percent Recovery*	*Control limits*				
Tetrachloro-m-xylene	*62*	*21-113*				
Decachlorobiphenyl	*77*	*45-133*				

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-3**					
Laboratory ID:	05-382-04					
HCBD	ND	0.0048	EPA 8081B	5-30-25	5-30-25	
Hexachlorobenzene	ND	0.0048	EPA 8081B	5-30-25	5-30-25	
alpha-BHC	0.035	0.0048	EPA 8081B	5-30-25	5-30-25	P
gamma-BHC	0.12	0.0048	EPA 8081B	5-30-25	5-30-25	
beta-BHC	ND	0.0048	EPA 8081B	5-30-25	5-30-25	Y1
delta-BHC	ND	0.014	EPA 8081B	5-30-25	5-30-25	U1
Heptachlor	ND	0.0096	EPA 8081B	5-30-25	5-30-25	U1
Aldrin	ND	0.017	EPA 8081B	5-30-25	5-30-25	Y1,U1
Heptachlor epoxide	ND	0.019	EPA 8081B	5-30-25	5-30-25	Y1,U1
gamma-Chlordane	ND	0.077	EPA 8081B	5-30-25	5-30-25	U1
alpha-Chlordane	ND	0.024	EPA 8081B	5-30-25	5-30-25	Y1,U1
4,4'-DDE	ND	0.014	EPA 8081B	5-30-25	5-30-25	Y1,U1
Endosulfan I	ND	0.043	EPA 8081B	5-30-25	5-30-25	Y1,U1
Dieldrin	ND	0.086	EPA 8081B	5-30-25	5-30-25	Y1,U1
Endrin	ND	0.062	EPA 8081B	5-30-25	5-30-25	Y1,U1
4,4'-DDD	ND	0.024	EPA 8081B	5-30-25	5-30-25	Y1,U1
Endosulfan II	ND	0.14	EPA 8081B	5-30-25	5-30-25	Y1,U1
4,4'-DDT	ND	0.038	EPA 8081B	5-30-25	5-30-25	Y1,U1
Endrin aldehyde	ND	0.014	EPA 8081B	5-30-25	5-30-25	Y1,U1
Methoxychlor	ND	0.600	EPA 8081B	5-30-25	6-2-25	Y1,U1
Endosulfan sulfate	0.15	0.0048	EPA 8081B	5-30-25	5-30-25	Y1
Endrin ketone	ND	0.019	EPA 8081B	5-30-25	5-30-25	Y1,U1
Toxaphene	7.4	0.12	EPA 8081B	5-30-25	6-2-25	
Tech Chlordane	ND	0.024	EPA 8081B	5-30-25	5-30-25	
Surrogate:	*Percent Recovery*	*Control limits*				
Tetrachloro-m-xylene	*43*	*21-113*				
Decachlorobiphenyl	*64*	*45-133*				

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-4**					
Laboratory ID:	05-382-05					
HCBD	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
Hexachlorobenzene	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
alpha-BHC	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
gamma-BHC	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
beta-BHC	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
delta-BHC	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
Heptachlor	ND	0.0047	EPA 8081B	5-30-25	5-30-25	Y1
Aldrin	ND	0.0071	EPA 8081B	5-30-25	5-30-25	U1
Heptachlor epoxide	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
gamma-Chlordane	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
alpha-Chlordane	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
4,4'-DDE	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
Endosulfan I	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
Dieldrin	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
Endrin	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
4,4'-DDD	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
Endosulfan II	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
4,4'-DDT	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
Endrin aldehyde	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
Methoxychlor	ND	0.0047	EPA 8081B	5-30-25	5-30-25	Y1
Endosulfan sulfate	ND	0.0047	EPA 8081B	5-30-25	5-30-25	
Endrin ketone	ND	0.0047	EPA 8081B	5-30-25	5-30-25	Y1
Toxaphene	ND	0.095	EPA 8081B	5-30-25	5-30-25	U1
Tech Chlordane	ND	0.024	EPA 8081B	5-30-25	5-30-25	
Surrogate:	*Percent Recovery*	*Control limits*				
Tetrachloro-m-xylene	*48*	*21-113*				
Decachlorobiphenyl	*84*	*45-133*				

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

ORGANOCHLORINE PESTICIDES EPA 8081B QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0530W1					
alpha-BHC	ND	0.0025	EPA 8081B	5-30-25	5-30-25	
gamma-BHC	ND	0.0025	EPA 8081B	5-30-25	5-30-25	
beta-BHC	ND	0.0025	EPA 8081B	5-30-25	5-30-25	
delta-BHC	ND	0.0025	EPA 8081B	5-30-25	5-30-25	
Heptachlor	ND	0.0025	EPA 8081B	5-30-25	5-30-25	
Aldrin	ND	0.0025	EPA 8081B	5-30-25	5-30-25	
Heptachlor epoxide	ND	0.0025	EPA 8081B	5-30-25	5-30-25	
gamma-Chlordane	ND	0.0025	EPA 8081B	5-30-25	5-30-25	
alpha-Chlordane	ND	0.0025	EPA 8081B	5-30-25	5-30-25	
4,4'-DDE	ND	0.0025	EPA 8081B	5-30-25	5-30-25	
Endosulfan I	ND	0.0025	EPA 8081B	5-30-25	5-30-25	
Dieldrin	ND	0.0025	EPA 8081B	5-30-25	5-30-25	
Endrin	ND	0.0025	EPA 8081B	5-30-25	5-30-25	
4,4'-DDD	ND	0.0025	EPA 8081B	5-30-25	5-30-25	
Endosulfan II	ND	0.0025	EPA 8081B	5-30-25	5-30-25	
4,4'-DDT	ND	0.0025	EPA 8081B	5-30-25	5-30-25	
Endrin aldehyde	ND	0.0025	EPA 8081B	5-30-25	5-30-25	
Methoxychlor	ND	0.0050	EPA 8081B	5-30-25	5-30-25	
Endosulfan sulfate	ND	0.0025	EPA 8081B	5-30-25	5-30-25	
Endrin ketone	ND	0.010	EPA 8081B	5-30-25	5-30-25	
Toxaphene	ND	0.025	EPA 8081B	5-30-25	5-30-25	
Tech Chlordane	ND	0.025	EPA 8081B	5-30-25	5-30-25	
Surrogate:	*Percent Recovery*	*Control limits*				
Tetrachloro-m-xylene	*84*	*21-113*				
Decachlorobiphenyl	*87*	*45-133*				

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

ORGANOCHLORINE PESTICIDES EPA 8081B QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	05-382-05										
	MS	MSD	MS	MSD		MS	MSD				
alpha-BHC	**0.0733**	**0.0719**	0.0947	0.0949	**ND**	**77**	**76**	50-130	2	20	
gamma-BHC	**0.0791**	**0.0791**	0.0947	0.0949	**ND**	**84**	**83**	50-130	0	20	
beta-BHC	**0.0778**	**0.0768**	0.0947	0.0949	**ND**	**82**	**81**	50-130	1	20	
delta-BHC	**0.0644**	**0.0631**	0.0947	0.0949	**ND**	**68**	**66**	50-130	2	20	
Heptachlor	**0.0762**	**0.0761**	0.0947	0.0949	**ND**	**80**	**80**	50-130	0	20	
Aldrin	**0.0718**	**0.0720**	0.0947	0.0949	**ND**	**76**	**76**	50-130	0	20	
Heptachlor epoxide	**0.0767**	**0.0752**	0.0947	0.0949	**ND**	**81**	**79**	50-130	2	20	
gamma-Chlordane	**0.0678**	**0.0667**	0.0947	0.0949	**ND**	**72**	**70**	50-130	2	20	
alpha-Chlordane	**0.0762**	**0.0758**	0.0947	0.0949	**ND**	**80**	**80**	50-130	1	20	
4,4'-DDE	**0.0853**	**0.0837**	0.0947	0.0949	**ND**	**90**	**88**	50-130	2	20	
Endosulfan I	**0.0814**	**0.0799**	0.0947	0.0949	**ND**	**86**	**84**	50-130	2	20	
Dieldrin	**0.0745**	**0.0732**	0.0947	0.0949	**ND**	**79**	**77**	50-130	2	20	
Endrin	**0.0935**	**0.0932**	0.0947	0.0949	**ND**	**99**	**98**	50-130	0	20	
4,4'-DDD	**0.0875**	**0.0874**	0.0947	0.0949	**ND**	**92**	**92**	50-130	0	20	
Endosulfan II	**0.0868**	**0.0832**	0.0947	0.0949	**ND**	**92**	**88**	50-130	4	20	
4,4'-DDT	**0.0914**	**0.0927**	0.0947	0.0949	**ND**	**97**	**98**	50-130	1	20	
Endrin aldehyde	**0.0720**	**0.0729**	0.0947	0.0949	**ND**	**76**	**77**	50-130	1	20	
Methoxychlor	**0.109**	**0.109**	0.0947	0.0949	**ND**	**115**	**115**	50-130	0	20	
Endosulfan sulfate	**0.0819**	**0.0796**	0.0947	0.0949	**ND**	**86**	**84**	50-130	3	20	
Endrin ketone	**0.0852**	**0.0850**	0.0947	0.0949	**ND**	**90**	**90**	50-130	0	20	
Surrogate:											
Tetrachloro-m-xylene						*63*	*73*	*21-113*			
Decachlorobiphenyl						*92*	*91*	*45-133*			

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

ORGANOPHOSPHORUS PESTICIDES EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-1**					
Laboratory ID:	05-382-01					
Dichlorvos(DDVP)	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Mevinphos/Phosdrin	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Ethoprophos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Monocrotophos	**ND**	0.48	EPA 8270E/SIM	6-2-25	6-2-25	
Naled	**ND**	0.48	EPA 8270E/SIM	6-2-25	6-2-25	
Sulfotepp	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Phorate	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Dimethoate	**ND**	0.48	EPA 8270E/SIM	6-2-25	6-2-25	
Demeton-S	**ND**	0.13	EPA 8270E/SIM	6-2-25	6-2-25	
Diazinon	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Disulfoton	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Parathion-methyl	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Fenchlorphos/Ronnel	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Malathion	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Fenthion	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Parathion-ethyl	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Chlorpyrifos/Dursban	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Trichloronate	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Stirofos/Tetrachlorvinphos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Tokuthion/Prothiofos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Merphos&Merphos-oxone	**ND**	0.48	EPA 8270E/SIM	6-2-25	6-2-25	
Fensulfothion	**ND**	0.48	EPA 8270E/SIM	6-2-25	6-2-25	
Bolstar/Sulprofos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
EPN	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Azinphos-methyl/Guthion	**ND**	0.48	EPA 8270E/SIM	6-2-25	6-2-25	
Coumaphos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Tributyl phosphate	*84*	*67-120*				
Triphenyl phosphate	*83*	*64-110*				

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

ORGANOPHOSPHORUS PESTICIDES EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-2**					
Laboratory ID:	05-382-02					
Dichlorvos(DDVP)	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Mevinphos/Phosdrin	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Ethoprophos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Monocrotophos	**ND**	0.48	EPA 8270E/SIM	6-2-25	6-2-25	
Naled	**ND**	0.48	EPA 8270E/SIM	6-2-25	6-2-25	
Sulfotepp	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Phorate	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Dimethoate	**ND**	0.48	EPA 8270E/SIM	6-2-25	6-2-25	
Demeton-S	**ND**	0.13	EPA 8270E/SIM	6-2-25	6-2-25	
Diazinon	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Disulfoton	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Parathion-methyl	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Fenchlorphos/Ronnel	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Malathion	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Fenthion	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Parathion-ethyl	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Chlorpyrifos/Dursban	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Trichloronate	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Stirofos/Tetrachlorvinphos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Tokuthion/Prothiofos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Merphos&Merphos-oxone	**ND**	0.48	EPA 8270E/SIM	6-2-25	6-2-25	
Fensulfothion	**ND**	0.48	EPA 8270E/SIM	6-2-25	6-2-25	
Bolstar/Sulprofos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
EPN	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Azinphos-methyl/Guthion	**ND**	0.48	EPA 8270E/SIM	6-2-25	6-2-25	
Coumaphos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Tributyl phosphate	*83*	*67-120*				
Triphenyl phosphate	*85*	*64-110*				

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

ORGANOPHOSPHORUS PESTICIDES EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-12**					
Laboratory ID:	05-382-03					
Dichlorvos(DDVP)	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Mevinphos/Phosdrin	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Ethoprophos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Monocrotophos	**ND**	0.47	EPA 8270E/SIM	6-2-25	6-2-25	
Naled	**ND**	0.47	EPA 8270E/SIM	6-2-25	6-2-25	
Sulfotepp	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Phorate	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Dimethoate	**ND**	0.47	EPA 8270E/SIM	6-2-25	6-2-25	
Demeton-S	**ND**	0.13	EPA 8270E/SIM	6-2-25	6-2-25	
Diazinon	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Disulfoton	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Parathion-methyl	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Fenchlorphos/Ronnel	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Malathion	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Fenthion	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Parathion-ethyl	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Chlorpyrifos/Dursban	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Trichloronate	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Stirofos/Tetrachlorvinphos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Tokuthion/Prothiofos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Merphos&Merphos-oxone	**ND**	0.47	EPA 8270E/SIM	6-2-25	6-2-25	
Fensulfothion	**ND**	0.47	EPA 8270E/SIM	6-2-25	6-2-25	
Bolstar/Sulprofos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
EPN	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Azinphos-methyl/Guthion	**ND**	0.47	EPA 8270E/SIM	6-2-25	6-2-25	
Coumaphos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Tributyl phosphate	*84*	*67-120*				
Triphenyl phosphate	*79*	*64-110*				

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

ORGANOPHOSPHORUS PESTICIDES EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-3**					
Laboratory ID:	05-382-04					
Dichlorvos(DDVP)	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Mevinphos/Phosdrin	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Ethoprophos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Monocrotophos	**ND**	0.47	EPA 8270E/SIM	6-2-25	6-2-25	
Naled	**ND**	0.47	EPA 8270E/SIM	6-2-25	6-2-25	
Sulfotepp	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Phorate	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Dimethoate	**ND**	0.47	EPA 8270E/SIM	6-2-25	6-2-25	
Demeton-S	**ND**	0.13	EPA 8270E/SIM	6-2-25	6-2-25	
Diazinon	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Disulfoton	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Parathion-methyl	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Fenchlorphos/Ronnel	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Malathion	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Fenthion	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Parathion-ethyl	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Chlorpyrifos/Dursban	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Trichloronate	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Stirofos/Tetrachlorvinphos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Tokuthion/Prothiofos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Merphos&Merphos-oxone	**ND**	0.47	EPA 8270E/SIM	6-2-25	6-2-25	
Fensulfothion	**ND**	0.47	EPA 8270E/SIM	6-2-25	6-2-25	
Bolstar/Sulprofos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
EPN	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Azinphos-methyl/Guthion	**ND**	0.47	EPA 8270E/SIM	6-2-25	6-2-25	
Coumaphos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Tributyl phosphate	*104*	*67-120*				
Triphenyl phosphate	*87*	*64-110*				

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

ORGANOPHOSPHORUS PESTICIDES EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-4**					
Laboratory ID:	05-382-05					
Dichlorvos(DDVP)	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Mevinphos/Phosdrin	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Ethoprophos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Monocrotophos	**ND**	0.47	EPA 8270E/SIM	6-2-25	6-2-25	
Naled	**ND**	0.47	EPA 8270E/SIM	6-2-25	6-2-25	
Sulfotepp	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Phorate	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Dimethoate	**ND**	0.47	EPA 8270E/SIM	6-2-25	6-2-25	
Demeton-S	**ND**	0.13	EPA 8270E/SIM	6-2-25	6-2-25	
Diazinon	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Disulfoton	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Parathion-methyl	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Fenchlorphos/Ronnel	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Malathion	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Fenthion	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Parathion-ethyl	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Chlorpyrifos/Dursban	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Trichloronate	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Stirofos/Tetrachlorvinphos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Tokuthion/Prothiofos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Merphos&Merphos-oxone	**ND**	0.47	EPA 8270E/SIM	6-2-25	6-2-25	
Fensulfothion	**ND**	0.47	EPA 8270E/SIM	6-2-25	6-2-25	
Bolstar/Sulprofos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
EPN	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Azinphos-methyl/Guthion	**ND**	0.47	EPA 8270E/SIM	6-2-25	6-2-25	
Coumaphos	**ND**	0.19	EPA 8270E/SIM	6-2-25	6-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Tributyl phosphate	*79*	*67-120*				
Triphenyl phosphate	*78*	*64-110*				

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

ORGANOPHOSPHORUS PESTICIDES EPA 8270E/SIM QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0602W1					
Dichlorvos(DDVP)	**ND**	0.20	EPA 8270E/SIM	6-2-25	6-2-25	
Mevinphos/Phosdrin	**ND**	0.20	EPA 8270E/SIM	6-2-25	6-2-25	
Ethoprophos	**ND**	0.20	EPA 8270E/SIM	6-2-25	6-2-25	
Monocrotophos	**ND**	0.50	EPA 8270E/SIM	6-2-25	6-2-25	
Naled	**ND**	0.50	EPA 8270E/SIM	6-2-25	6-2-25	
Sulfotepp	**ND**	0.20	EPA 8270E/SIM	6-2-25	6-2-25	
Phorate	**ND**	0.20	EPA 8270E/SIM	6-2-25	6-2-25	
Dimethoate	**ND**	0.50	EPA 8270E/SIM	6-2-25	6-2-25	
Demeton-S	**ND**	0.14	EPA 8270E/SIM	6-2-25	6-2-25	
Diazinon	**ND**	0.20	EPA 8270E/SIM	6-2-25	6-2-25	
Disulfoton	**ND**	0.20	EPA 8270E/SIM	6-2-25	6-2-25	
Parathion-methyl	**ND**	0.20	EPA 8270E/SIM	6-2-25	6-2-25	
Fenchlorphos/Ronnel	**ND**	0.20	EPA 8270E/SIM	6-2-25	6-2-25	
Malathion	**ND**	0.20	EPA 8270E/SIM	6-2-25	6-2-25	
Fenthion	**ND**	0.20	EPA 8270E/SIM	6-2-25	6-2-25	
Parathion-ethyl	**ND**	0.20	EPA 8270E/SIM	6-2-25	6-2-25	
Chlorpyrifos/Dursban	**ND**	0.20	EPA 8270E/SIM	6-2-25	6-2-25	
Trichloronate	**ND**	0.20	EPA 8270E/SIM	6-2-25	6-2-25	
Stirofos/Tetrachlorvinphos	**ND**	0.20	EPA 8270E/SIM	6-2-25	6-2-25	
Tokuthion/Prothiofos	**ND**	0.20	EPA 8270E/SIM	6-2-25	6-2-25	
Merphos&Merphos-oxone	**ND**	0.50	EPA 8270E/SIM	6-2-25	6-2-25	
Fensulfothion	**ND**	0.50	EPA 8270E/SIM	6-2-25	6-2-25	
Bolstar/Sulprofos	**ND**	0.20	EPA 8270E/SIM	6-2-25	6-2-25	
EPN	**ND**	0.20	EPA 8270E/SIM	6-2-25	6-2-25	
Azinphos-methyl/Guthion	**ND**	0.50	EPA 8270E/SIM	6-2-25	6-2-25	
Coumaphos	**ND**	0.20	EPA 8270E/SIM	6-2-25	6-2-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Tributyl phosphate	*73*	*67-120*				
Triphenyl phosphate	*78*	*64-110*				

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

ORGANOPHOSPHORUS PESTICIDES EPA 8270E/SIM QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	05-382-05										
	MS	MSD	MS	MSD		MS	MSD				
Dichlorvos(DDVP)	**0.699**	**0.740**	0.946	0.948	ND	74	78	44-114	6	30	
Mevinphos/Phosdrin	**0.732**	**0.788**	0.946	0.948	ND	77	83	52-123	7	30	
Ethoprophos	**0.722**	**0.844**	0.946	0.948	ND	76	89	52-122	16	30	
Sulfotepp	**0.688**	**0.731**	0.946	0.948	ND	73	77	64-101	6	30	
Phorate	**0.656**	**0.755**	0.946	0.948	ND	69	80	38-112	14	30	
Dimethoate	**0.734**	**0.829**	0.946	0.948	ND	78	87	20-142	12	30	
Demeton-S	**0.472**	**0.557**	0.662	0.664	ND	71	84	42-116	17	30	
Diazinon	**0.752**	**0.858**	0.946	0.948	ND	79	91	55-121	13	30	
Disulfoton	**0.706**	**0.824**	0.946	0.948	ND	75	87	38-103	15	30	
Parathion-methyl	**0.850**	**0.973**	0.946	0.948	ND	90	103	54-134	13	30	
Fenchlorphos/Ronnel	**0.684**	**0.781**	0.946	0.948	ND	72	82	53-114	13	30	
Malathion	**0.784**	**0.879**	0.946	0.948	ND	83	93	71-107	11	30	
Fenthion	**0.745**	**0.857**	0.946	0.948	ND	79	90	61-107	14	30	
Parathion-ethyl	**0.765**	**0.911**	0.946	0.948	ND	81	96	65-104	17	30	
Chlorpyrifos/Dursban	**0.702**	**0.808**	0.946	0.948	ND	74	85	59-108	14	30	
Trichloronate	**0.606**	**0.733**	0.946	0.948	ND	64	77	52-102	19	30	
Stirofos/Tetrachlorvinphos	**0.831**	**0.969**	0.946	0.948	ND	88	102	50-158	15	30	
Tokuthion/Prothiofos	**0.703**	**0.826**	0.946	0.948	ND	74	87	58-111	16	30	
Fensulfothion	**0.822**	**0.957**	0.946	0.948	ND	87	101	57-137	15	30	
Bolstar/Sulprofos	**0.502**	**0.603**	0.946	0.948	ND	53	64	22-128	18	30	
EPN	**0.762**	**0.905**	0.946	0.948	ND	81	95	60-111	17	30	
Azinphos-methyl/Guthion	**1.22**	**1.42**	0.946	0.948	ND	129	150	42-152	15	30	
Coumaphos	**0.908**	**1.03**	0.946	0.948	ND	96	109	46-150	13	30	
Surrogate:											
Tributyl phosphate						*74*	*84*	*67-120*			
Triphenyl phosphate						*76*	*89*	*64-110*			

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**IBC Tote**					
Laboratory ID:	05-382-06					
Arsenic	**12**	3.3	EPA 200.8	6-2-25	6-2-25	
Barium	**130**	28	EPA 200.8	6-2-25	6-2-25	
Cadmium	**ND**	4.4	EPA 200.8	6-2-25	6-2-25	
Chromium	**ND**	11	EPA 200.8	6-2-25	6-2-25	
Copper	**ND**	11	EPA 200.8	6-2-25	6-2-25	
Lead	**1.4**	1.1	EPA 200.8	6-2-25	6-2-25	
Mercury	**ND**	0.50	EPA 7470A	6-2-25	6-2-25	
Nickel	**48**	22	EPA 200.8	6-2-25	6-2-25	
Selenium	**ND**	5.6	EPA 200.8	6-2-25	6-2-25	
Silver	**ND**	11	EPA 200.8	6-2-25	6-2-25	
Zinc	**ND**	28	EPA 200.8	6-2-25	6-2-25	

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

TOTAL METALS
EPA 200.8/7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0602WM1					
Arsenic	**ND**	3.3	EPA 200.8	6-2-25	6-2-25	
Barium	**ND**	28	EPA 200.8	6-2-25	6-2-25	
Cadmium	**ND**	4.4	EPA 200.8	6-2-25	6-2-25	
Chromium	**ND**	11	EPA 200.8	6-2-25	6-2-25	
Copper	**ND**	11	EPA 200.8	6-2-25	6-2-25	
Lead	**ND**	1.1	EPA 200.8	6-2-25	6-2-25	
Nickel	**ND**	22	EPA 200.8	6-2-25	6-2-25	
Selenium	**ND**	5.6	EPA 200.8	6-2-25	6-2-25	
Silver	**ND**	11	EPA 200.8	6-2-25	6-2-25	
Zinc	**ND**	28	EPA 200.8	6-2-25	6-2-25	
Laboratory ID:	MB0602W1					
Mercury	**ND**	0.50	EPA 7470A	6-2-25	6-2-25	

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

TOTAL METALS
EPA 200.8/7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	05-277-03										
	ORIG	DUP									
Arsenic	**3.53**	**3.47**	NA	NA		NA		NA	2	20	
Barium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Copper	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Nickel	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Zinc	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	05-382-06										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	05-277-03										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**111**	**119**	111	111	3.53	**97**	**104**	75-125	7	20	
Barium	**128**	**135**	111	111	22.0	**96**	**102**	75-125	5	20	
Cadmium	**105**	**114**	111	111	ND	**95**	**103**	75-125	8	20	
Chromium	**103**	**110**	111	111	ND	**92**	**99**	75-125	7	20	
Copper	**103**	**111**	111	111	ND	**93**	**100**	75-125	7	20	
Lead	**106**	**114**	111	111	ND	**95**	**103**	75-125	8	20	
Nickel	**103**	**110**	111	111	ND	**92**	**99**	75-125	7	20	
Selenium	**109**	**117**	111	111	ND	**98**	**105**	75-125	7	20	
Silver	**102**	**108**	111	111	ND	**92**	**97**	75-125	6	20	
Zinc	**104**	**111**	111	111	ND	**94**	**100**	75-125	6	20	
Laboratory ID:	05-382-06										
Mercury	**12.2**	**12.3**	12.5	12.5	ND	**97**	**98**	75-125	1	20	

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SMW-1**					
Laboratory ID:	05-382-01					
Nitrate	**56**	1.0	EPA 353.2	5-29-25	5-29-25	
Client ID:	**SMW-2**					
Laboratory ID:	05-382-02					
Nitrate	**67**	1.0	EPA 353.2	5-29-25	5-29-25	
Client ID:	**SMW-12**					
Laboratory ID:	05-382-03					
Nitrate	**67**	1.0	EPA 353.2	5-29-25	5-29-25	
Client ID:	**SMW-3**					
Laboratory ID:	05-382-04					
Nitrate	**180**	4.0	EPA 353.2	5-29-25	5-29-25	
Client ID:	**SMW-4**					
Laboratory ID:	05-382-05					
Nitrate	**14**	0.50	EPA 353.2	5-29-25	5-29-25	

Date of Report: June 5, 2025
Samples Submitted: May 29, 2025
Laboratory Reference: 2505-382
Project: Sunnyside Airport

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0529W1					
Nitrate	**ND**	0.050	EPA 353.2	5-29-25	5-29-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	05-382-05										
	ORIG	DUP									
Nitrate	**14.4**	**14.0**	NA		NA	NA		NA	3	23	
MATRIX SPIKES											
Laboratory ID:	05-382-05										
	MS	MSD	MS	MSD		MS	MSD				
Nitrate	**35.1**	**35.4**	20.0	20.0	14.4	104	105	74-130	1	20	
SPIKE BLANK											
Laboratory ID:	SB0529W1										
	SB		SB			SB					
Nitrate	**2.03**		2.00		NA	102		82-128	NA	NA	

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

3600 Fremont Ave N
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

OnSite Environmental Inc
David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 05-382, Sunnyside Airport
Work Order Number: 2505688

June 05, 2025

Attention David Baumeister:

Alliance Technical Group, LLC - Seattle received 5 sample(s) on 5/30/2025 for the analyses presented in the following report.

Herbicides by EPA 8151A (GC/MS)

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Alliance Technical Group is committed to accuracy, speed, and customer service. Thank you for choosing Alliance Technical Group's Seattle laboratory team for your analytical needs. We appreciate this opportunity to serve you!

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

Date: *06/05/2025*

CLIENT: OnSite Environmental Inc
Project: 05-382
Work Order: 2505688

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2505688-001	SMW-1	05/28/2025 1:15 PM	05/30/2025 1:00 PM
2505688-002	SMW-2	05/28/2025 11:15 AM	05/30/2025 1:00 PM
2505688-003	SMW-12	05/28/2025 11:25 AM	05/30/2025 1:00 PM
2505688-004	SMW-3	05/28/2025 3:15 PM	05/30/2025 1:00 PM
2505688-005	SMW-4	05/28/2025 5:00 PM	05/30/2025 1:00 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Case Narrative

WO#: **2505688**

Date: **6/5/2025**

CLIENT: OnSite Environmental Inc

Project: 05-382

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
DUP - Sample Duplicate
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MCL - Maximum Contaminant Level
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
REP - Sample Replicate
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Analytical Report

Work Order: **2505688**
Date Reported: **6/5/2025**

Client: OnSite Environmental Inc
Collection Date: 5/28/2025 1:15:00 PM
Project: 05-382
Lab ID: 2505688-001
Matrix: Water
Client Sample ID: SMW-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Herbicides by EPA 8151A (GC/MS)				Batch ID: 47952		Analyst: SH
Dicamba	ND	0.197		µg/L	1	6/4/2025 3:30:30 PM
2,4-D	ND	0.197		µg/L	1	6/4/2025 3:30:30 PM
2,4-DP	ND	0.197		µg/L	1	6/4/2025 3:30:30 PM
2,4,5-TP (Silvex)	ND	0.393		µg/L	1	6/4/2025 3:30:30 PM
2,4,5-T	ND	0.197		µg/L	1	6/4/2025 3:30:30 PM
Dinoseb	ND	1.47	Q	µg/L	1	6/4/2025 3:30:30 PM
Dalapon	ND	1.18		µg/L	1	6/4/2025 3:30:30 PM
2,4-DB	ND	0.491		µg/L	1	6/4/2025 3:30:30 PM
MCPP	ND	1.97		µg/L	1	6/4/2025 3:30:30 PM
MCPA	ND	1.97		µg/L	1	6/4/2025 3:30:30 PM
Picloram	ND	0.393	Q	µg/L	1	6/4/2025 3:30:30 PM
Bentazon	ND	0.491		µg/L	1	6/4/2025 3:30:30 PM
Chloramben	ND	0.295		µg/L	1	6/4/2025 3:30:30 PM
Acifluorfen	ND	0.688		µg/L	1	6/4/2025 3:30:30 PM
3,5-Dichlorobenzoic acid	ND	0.295		µg/L	1	6/4/2025 3:30:30 PM
4-Nitrophenol	ND	4.91		µg/L	1	6/4/2025 3:30:30 PM
Dacthal (DCPA)	ND	4.91		µg/L	1	6/4/2025 3:30:30 PM
Surr: 2,4-Dichlorophenylacetic acid	144	62.2 - 160		%Rec	1	6/4/2025 3:30:30 PM

NOTES:
Q - Associated calibration verification is below acceptance criteria (68-70% recovery, nominal 80-120). Result may be low-biased.

Analytical Report

Work Order: **2505688**
Date Reported: **6/5/2025**

Client: OnSite Environmental Inc
Collection Date: 5/28/2025 11:15:00 AM
Project: 05-382
Lab ID: 2505688-002
Matrix: Water
Client Sample ID: SMW-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Herbicides by EPA 8151A (GC/MS)				Batch ID: 47952		Analyst: SH
Dicamba	ND	0.200		µg/L	1	6/4/2025 3:51:05 PM
2,4-D	ND	0.200		µg/L	1	6/4/2025 3:51:05 PM
2,4-DP	ND	0.200		µg/L	1	6/4/2025 3:51:05 PM
2,4,5-TP (Silvex)	ND	0.399		µg/L	1	6/4/2025 3:51:05 PM
2,4,5-T	ND	0.200		µg/L	1	6/4/2025 3:51:05 PM
Dinoseb	ND	1.50	Q	µg/L	1	6/4/2025 3:51:05 PM
Dalapon	ND	1.20		µg/L	1	6/4/2025 3:51:05 PM
2,4-DB	ND	0.499		µg/L	1	6/4/2025 3:51:05 PM
MCPP	ND	2.00		µg/L	1	6/4/2025 3:51:05 PM
MCPA	ND	2.00		µg/L	1	6/4/2025 3:51:05 PM
Picloram	ND	0.399	Q	µg/L	1	6/4/2025 3:51:05 PM
Bentazon	ND	0.499		µg/L	1	6/4/2025 3:51:05 PM
Chloramben	ND	0.299		µg/L	1	6/4/2025 3:51:05 PM
Acifluorfen	ND	0.699		µg/L	1	6/4/2025 3:51:05 PM
3,5-Dichlorobenzoic acid	ND	0.299		µg/L	1	6/4/2025 3:51:05 PM
4-Nitrophenol	ND	4.99		µg/L	1	6/4/2025 3:51:05 PM
Dacthal (DCPA)	ND	4.99		µg/L	1	6/4/2025 3:51:05 PM
Surr: 2,4-Dichlorophenylacetic acid	172	62.2 - 160	S	%Rec	1	6/4/2025 3:51:05 PM

NOTES:
S - Outlying surrogate recovery observed (high bias). Sample is non-detect; result meets QC requirements.
Q - Associated calibration verification is below acceptance criteria (68-70% recovery, nominal 80-120). Result may be low-biased.

Analytical Report

Work Order: **2505688**
Date Reported: **6/5/2025**

Client: OnSite Environmental Inc
Collection Date: 5/28/2025 11:25:00 AM
Project: 05-382
Lab ID: 2505688-003
Matrix: Water
Client Sample ID: SMW-12

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Herbicides by EPA 8151A (GC/MS)				Batch ID: 47952		Analyst: SH
Dicamba	ND	0.196		µg/L	1	6/4/2025 4:11:52 PM
2,4-D	ND	0.196		µg/L	1	6/4/2025 4:11:52 PM
2,4-DP	ND	0.196		µg/L	1	6/4/2025 4:11:52 PM
2,4,5-TP (Silvex)	ND	0.393		µg/L	1	6/4/2025 4:11:52 PM
2,4,5-T	ND	0.196		µg/L	1	6/4/2025 4:11:52 PM
Dinoseb	ND	1.47	Q	µg/L	1	6/4/2025 4:11:52 PM
Dalapon	ND	1.18		µg/L	1	6/4/2025 4:11:52 PM
2,4-DB	ND	0.491		µg/L	1	6/4/2025 4:11:52 PM
MCPP	ND	1.96		µg/L	1	6/4/2025 4:11:52 PM
MCPA	ND	1.96		µg/L	1	6/4/2025 4:11:52 PM
Picloram	ND	0.393	Q	µg/L	1	6/4/2025 4:11:52 PM
Bentazon	ND	0.491		µg/L	1	6/4/2025 4:11:52 PM
Chloramben	ND	0.295		µg/L	1	6/4/2025 4:11:52 PM
Acifluorfen	ND	0.688		µg/L	1	6/4/2025 4:11:52 PM
3,5-Dichlorobenzoic acid	ND	0.295		µg/L	1	6/4/2025 4:11:52 PM
4-Nitrophenol	ND	4.91		µg/L	1	6/4/2025 4:11:52 PM
Dacthal (DCPA)	ND	4.91		µg/L	1	6/4/2025 4:11:52 PM
Surr: 2,4-Dichlorophenylacetic acid	172	62.2 - 160	S	%Rec	1	6/4/2025 4:11:52 PM

NOTES:
Q - Associated calibration verification is below acceptance criteria (68-70% recovery, nominal 80-120). Result may be low-biased.

Analytical Report

Work Order: **2505688**
Date Reported: **6/5/2025**

Client: OnSite Environmental Inc
Collection Date: 5/28/2025 3:15:00 PM
Project: 05-382
Lab ID: 2505688-004
Matrix: Water
Client Sample ID: SMW-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Herbicides by EPA 8151A (GC/MS)				Batch ID: 47952		Analyst: SH
Dicamba	0.364	0.196	*	µg/L	1	6/4/2025 4:32:34 PM
2,4-D	ND	0.196		µg/L	1	6/4/2025 4:32:34 PM
2,4-DP	ND	0.196		µg/L	1	6/4/2025 4:32:34 PM
2,4,5-TP (Silvex)	ND	0.393		µg/L	1	6/4/2025 4:32:34 PM
2,4,5-T	ND	0.196		µg/L	1	6/4/2025 4:32:34 PM
Dinoseb	3.89	1.47	Q	µg/L	1	6/4/2025 4:32:34 PM
Dalapon	ND	1.18		µg/L	1	6/4/2025 4:32:34 PM
2,4-DB	ND	0.491		µg/L	1	6/4/2025 4:32:34 PM
MCPP	ND	1.96		µg/L	1	6/4/2025 4:32:34 PM
MCPA	ND	1.96		µg/L	1	6/4/2025 4:32:34 PM
Picloram	0.397	0.393	Q	µg/L	1	6/4/2025 4:32:34 PM
Bentazon	ND	0.491		µg/L	1	6/4/2025 4:32:34 PM
Chloramben	ND	0.295		µg/L	1	6/4/2025 4:32:34 PM
Acifluorfen	ND	0.687		µg/L	1	6/4/2025 4:32:34 PM
3,5-Dichlorobenzoic acid	ND	0.295		µg/L	1	6/4/2025 4:32:34 PM
4-Nitrophenol	ND	4.91		µg/L	1	6/4/2025 4:32:34 PM
Dacthal (DCPA)	ND	4.91		µg/L	1	6/4/2025 4:32:34 PM
Surr: 2,4-Dichlorophenylacetic acid	157	62.2 - 160		%Rec	1	6/4/2025 4:32:34 PM

NOTES:
Q - Associated calibration verification is below acceptance criteria (68-70% recovery, nominal 80-120). Result may be low-biased.
* - Associated LCS is above acceptance criteria. Result may be high-biased.

Analytical Report

Work Order: **2505688**
Date Reported: **6/5/2025**

Client: OnSite Environmental Inc
Collection Date: 5/28/2025 5:00:00 PM
Project: 05-382
Lab ID: 2505688-005
Matrix: Water
Client Sample ID: SMW-4

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Herbicides by EPA 8151A (GC/MS)				Batch ID: 47952		Analyst: SH
Dicamba	ND	0.198		µg/L	1	6/4/2025 4:52:57 PM
2,4-D	ND	0.198		µg/L	1	6/4/2025 4:52:57 PM
2,4-DP	ND	0.198		µg/L	1	6/4/2025 4:52:57 PM
2,4,5-TP (Silvex)	ND	0.397		µg/L	1	6/4/2025 4:52:57 PM
2,4,5-T	ND	0.198		µg/L	1	6/4/2025 4:52:57 PM
Dinoseb	4.94	1.49	Q	µg/L	1	6/4/2025 4:52:57 PM
Dalapon	ND	1.19		µg/L	1	6/4/2025 4:52:57 PM
2,4-DB	ND	0.496		µg/L	1	6/4/2025 4:52:57 PM
MCPP	ND	1.98		µg/L	1	6/4/2025 4:52:57 PM
MCPA	ND	1.98		µg/L	1	6/4/2025 4:52:57 PM
Picloram	ND	0.397	Q	µg/L	1	6/4/2025 4:52:57 PM
Bentazon	0.652	0.496		µg/L	1	6/4/2025 4:52:57 PM
Chloramben	ND	0.297		µg/L	1	6/4/2025 4:52:57 PM
Acifluorfen	ND	0.694		µg/L	1	6/4/2025 4:52:57 PM
3,5-Dichlorobenzoic acid	ND	0.297		µg/L	1	6/4/2025 4:52:57 PM
4-Nitrophenol	ND	4.96		µg/L	1	6/4/2025 4:52:57 PM
Dacthal (DCPA)	ND	4.96		µg/L	1	6/4/2025 4:52:57 PM
Surr: 2,4-Dichlorophenylacetic acid	155	62.2 - 160		%Rec	1	6/4/2025 4:52:57 PM

NOTES:
Q - Associated calibration verification is below acceptance criteria (68-70% recovery, nominal 80-120). Result may be low-biased.

Work Order: 2505688
CLIENT: OnSite Environmental Inc
Project: 05-382

QC SUMMARY REPORT

Herbicides by EPA 8151A (GC/MS)

Sample ID: **MB-47952** SampType: **MBLK** Units: **µg/L** Prep Date: **6/2/2025** RunNo: **100306**
Client ID: **MBLKW** Batch ID: **47952** Analysis Date: **6/3/2025** SeqNo: **2090012**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	ND	0.200									I
2,4-D	ND	0.200									I
2,4-DP	ND	0.200									I
2,4,5-TP (Silvex)	ND	0.400									I
2,4,5-T	ND	0.200									I
Dinoseb	ND	1.50									I
Dalapon	ND	1.20									I
2,4-DB	ND	0.500									I
MCPP	ND	2.00									I
MCPA	ND	2.00									I
Picloram	ND	0.400									QI
Bentazon	ND	0.500									I
Chloramben	ND	0.300									I
Acifluorfen	ND	0.700									I
3,5-Dichlorobenzoic acid	ND	0.300									I
4-Nitrophenol	ND	5.00									I
Dacthal (DCPA)	ND	5.00									I
Surr: 2,4-Dichlorophenylacetic acid	38.7		20.00		193	62.9	132				SI

NOTES:
S - Outlying surrogate recovery observed (high bias). Sample is non-detect; result meets QC requirements.
I - Internal standards were outside of acceptance criteria. Result is an estimate.
Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample ID: **LCS-47952** SampType: **LCS** Units: **µg/L** Prep Date: **6/2/2025** RunNo: **100306**
Client ID: **LCSW** Batch ID: **47952** Analysis Date: **6/3/2025** SeqNo: **2090013**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	6.13	0.200	4.000	0	153	41	138				IS
2,4-D	5.96	0.200	4.000	0	149	54.2	158				I
2,4-DP	5.97	0.200	4.000	0	149	40.2	144				IS
2,4,5-TP (Silvex)	6.30	0.400	4.000	0	157	45.6	148				SI
2,4,5-T	6.05	0.200	4.000	0	151	46.2	135				SI

Work Order: 2505688
CLIENT: OnSite Environmental Inc
Project: 05-382

QC SUMMARY REPORT

Herbicides by EPA 8151A (GC/MS)

Sample ID: **LCS-47952** SampType: **LCS** Units: **µg/L** Prep Date: **6/2/2025** RunNo: **100306**
Client ID: **LCSW** Batch ID: **47952** Analysis Date: **6/3/2025** SeqNo: **2090013**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dinoseb	3.58	1.50	4.000	0	89.6	9.28	113				I
Dalapon	24.6	1.20	20.00	0	123	39.6	96.4				IS
2,4-DB	5.06	0.500	4.000	0	127	47.3	134				I
MCPP	28.1	2.00	20.00	0	140	63.3	144				I
MCPA	27.9	2.00	20.00	0	139	65.6	140				I
Picloram	4.07	0.400	4.000	0	102	35	119				I
Bentazon	5.83	0.500	4.000	0	146	50	152				I
Chloramben	4.60	0.300	4.000	0	115	7.76	101				IS
Acifluorfen	9.30	0.700	4.000	0	233	18.5	125				IS
3,5-Dichlorobenzoic acid	5.78	0.300	4.000	0	145	59.3	149				I
4-Nitrophenol	3.31	5.00	4.000	0	82.7	5	108				I
Dacthal (DCPA)	3.15	5.00	4.000	0	78.7	5.69	99.5				I
Surr: 2,4-Dichlorophenylacetic acid	33.2		20.00		166	62.2	160				IS

NOTES:
S - Outlying spike recovery observed (high bias). Detections will be qualified with a *.
I - Internal standards were outside of acceptance criteria. Result is an estimate.
S - Outlying surrogate recovery observed.

Sample ID: **2505688-005AMS** SampType: **MS** Units: **µg/L** Prep Date: **6/2/2025** RunNo: **100306**
Client ID: **SMW-4** Batch ID: **47952** Analysis Date: **6/4/2025** SeqNo: **2090465**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	5.48	0.198	3.960	0.3641	129	59.6	136				
2,4-D	5.92	0.198	3.960	0	150	52.5	166				
2,4-DP	4.88	0.198	3.960	0	123	52.7	147				
2,4,5-TP (Silvex)	5.30	0.396	3.960	0	134	60.2	149				
2,4,5-T	5.02	0.198	3.960	0	127	58.8	150				
Dinoseb	4.22	1.48	3.960	11.20	-176	21.2	133				S
Dalapon	17.9	1.19	19.80	0	90.4	29.7	94.2				
2,4-DB	3.86	0.495	3.960	0	97.4	41.6	159				
MCPP	26.0	1.98	19.80	0	131	55.1	139				
MCPA	25.9	1.98	19.80	0	131	56.2	139				

Work Order: 2505688
CLIENT: OnSite Environmental Inc
Project: 05-382

QC SUMMARY REPORT

Herbicides by EPA 8151A (GC/MS)

Sample ID: **2505688-005AMS** SampType: **MS** Units: **µg/L** Prep Date: **6/2/2025** RunNo: **100306**
Client ID: **SMW-4** Batch ID: **47952** Analysis Date: **6/4/2025** SeqNo: **2090465**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Picloram	2.37	0.396	3.960	0	59.8	16.6	132				
Bentazon	5.16	0.495	3.960	1.385	95.5	45.6	158				
Chloramben	2.72	0.297	3.960	0	68.8	7.42	100				
Acifluorfen	1.91	0.693	3.960	0	48.1	16	149				
3,5-Dichlorobenzoic acid	5.24	0.297	3.960	0	132	49.3	137				
4-Nitrophenol	1.89	4.95	3.960	0	47.8	5	116				
Dacthal (DCPA)	2.62	4.95	3.960	0	66.3	5	79.4				
Surr: 2,4-Dichlorophenylacetic acid	29.0		19.80		147	62.2	160				

NOTES:
S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.
S - Outlying surrogate recovery observed.

Sample ID: **2505688-005AMSD** SampType: **MSD** Units: **µg/L** Prep Date: **6/2/2025** RunNo: **100306**
Client ID: **SMW-4** Batch ID: **47952** Analysis Date: **6/4/2025** SeqNo: **2090466**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	6.80	0.198	3.965	0.3641	162	59.6	136	6.323	7.31	50	S
2,4-D	7.21	0.198	3.965	0	182	52.5	166	6.007	18.3	50	S
2,4-DP	5.92	0.198	3.965	0	149	52.7	147	5.415	8.89	50	S
2,4,5-TP (Silvex)	6.42	0.397	3.965	0	162	60.2	149	6.061	5.79	50	S
2,4,5-T	6.17	0.198	3.965	0	156	58.8	150	5.365	13.9	50	S
Dinoseb	6.76	1.49	3.965	11.20	-112	21.2	133	9.777	36.4	50	S
Dalapon	21.8	1.19	19.83	0	110	29.7	94.2	31.91	37.8	50	S
2,4-DB	4.63	0.496	3.965	0	117	41.6	159	4.160	10.6	50	
MCPP	31.2	1.98	19.83	0	157	55.1	139	25.90	18.6	50	S
MCPA	31.8	1.98	19.83	0	160	56.2	139	26.01	19.9	50	S
Picloram	2.94	0.397	3.965	0	74.1	16.6	132	3.952	29.4	50	
Bentazon	6.24	0.496	3.965	1.385	122	45.6	158	6.510	4.22	50	
Chloramben	3.37	0.297	3.965	0	84.9	7.42	100	4.214	22.4	50	
Acifluorfen	2.32	0.694	3.965	0	58.4	16	149	4.182	57.5	50	R
3,5-Dichlorobenzoic acid	6.22	0.297	3.965	0	157	49.3	137	5.527	11.9	50	S
4-Nitrophenol	2.46	4.96	3.965	0	62.0	5	116	0		50	

Work Order: 2505688
CLIENT: OnSite Environmental Inc
Project: 05-382

QC SUMMARY REPORT

Herbicides by EPA 8151A (GC/MS)

Sample ID: **2505688-005AMSD** SampType: **MSD** Units: **µg/L** Prep Date: **6/2/2025** RunNo: **100306**
Client ID: **SMW-4** Batch ID: **47952** Analysis Date: **6/4/2025** SeqNo: **2090466**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dacthal (DCPA)	3.23	4.96	3.965	0	81.3	5	79.4	0		50	S
Surr: 2,4-Dichlorophenylacetic acid	35.1		19.83		177	62.2	160		0		S

NOTES:
S - Outlying spike/surrogate recovery observed. A duplicate analysis was performed and recovered within range.
R - High RPD observed, spike recovery is within range.

Sample Log-In Check List

Client Name:	ONSITE	Work Order Number:	2505688
Logged by:	Morgan Wilson	Date Received:	5/30/2025 1:00:00 PM

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Courier		

Log In

3.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Present ☑
4.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5.	Were all items received at a temperature of >2°C to 6°C *	Yes ☑	No ☐	NA ☐
6.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
7.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8.	Are samples properly preserved?	Yes ☑	No ☐	
9.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
11.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
12.	Does paperwork match bottle labels?	Yes ☑	No ☐	
13.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14.	Is it clear what analyses were requested?	Yes ☑	No ☐	
15.	Were all hold times (except field parameters, pH e.g.) able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	0.9

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2505688

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 05-382

Laboratory: Fremont Analytical

Attention: Chelsea Ward

3600 Fremont Avenue N, Seattle, WA 98103

Phone Number: (206) 352-3790

Turnaround Request

1 Day | 2 Day | 3 Day

Standard

Other:

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: Sunnyside Airport

Project Name:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	SMW-1	5/28/25	13:15	W	2	Chlorinated Acid Herbicides EPA 8151
	SMW-2	5/28/25	11:15	W	2	Chlorinated Acid Herbicides EPA 8151
	SMW-12	5/28/25	11:25	W	2	Chlorinated Acid Herbicides EPA 8151
	SMW-3	5/28/25	15:15	W	2	Chlorinated Acid Herbicides EPA 8151
	SMW-4	5/28/25	17:00	W	4	Chlorinated Acid Herbicides EPA 8151 - MS/MSD

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OE	5/30/25	1138	
Received by:	OE	5/30/25	11:38	
Relinquished by:	OE	5/30/25	12:35	
Received by:	ATG	5/30/25	1PM	
Relinquished by:				
Received by:				

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: MH Macdonald
Project Number:
Project Name: Sunnyside Airport
Project Manager: Eric Cutler
Sampled by: C. Stice

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☒ 3 Days
☐ Standard (7 Days)
☒ Expedited (other)

Laboratory Number: 05-382

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	NITRATE	MS/MSD			% Moisture
1	SMW-1	5/28/25	13:15	W	7											X	X	X					X				
2	SMW-2		11:15	W	7											X	X	X					X				
3	SMW-12		11:25	W	7											X	X	X					X				
4	SMW-3		15:15	W	7											X	X	X					X				
5	SMW-4		17:00	W	14											X	X	X					X	X			
6	IBC Tote	↓	17:50	W	1														X								

	Signature	Company	Date	Time
Relinquished	Cheyenne Lee	MH Macdonald/Strata	5/29/25	10:30
Received	Aidan Prell	OSE	5/29/25	1030
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
IBC Tote - total RCRA metals + Cu, Ni, Zn

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Quality Assurance / Quality Control Review

Project:	*Sunnyside Airport Supplemental Groundwater Monitoring*	Analytical Lab:	*Alliance Technical Group*
Job Number:	*Strata Geosciences (25-053M), Mott MacDonald (518300032)*	Sampling Event:	*4-17-2025 Sampling Event*
Lab Data Set:	*04-304*	Sample Type:	*Groundwater*

The quality assurance/quality control (QA/QC) review examines the handling and analysis of samples and data as specified in the following guidelines:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (EPA 540/R-99/008, USEPA, June 2008)
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (EPA 540-R-04-004, USEPA, January 2010)

The QA/QC Review includes: methods, chain of custody, sample condition, holding times, method detection limits, method reporting limits, surrogate spikes, matrix spikes, laboratory control samples, laboratory control sample duplicates, and method blanks. For this sampling event, the analytical laboratory was Alliance Technical Group (subcontracted by Onsite Environmental) and the methods are listed.

The following section summarizes deviations from the laboratory narratives and reports. Data were evaluated based on control limits provided by the analytical lab (Alliance Technical Group, subcontracted by Onsite Environmental) established by their Quality Assurance Plan and State lab accreditation and data quality criteria.

Methods, Chain of Custody and Sample Condition		
Did the lab identify any issues related to the analytical results?	YES	NO
Comment:		
Were sample Chain-of-Custody forms complete?	YES	NO
Comment:		
Were all analyses requested for the samples on the COCs performed?	YES	NO
Comment:		
Were samples received in good conditions at the appropriate temperature?	YES	NO
Comment:		

Method and Holding Times						
Were the reported analytical methods in compliance with the COC, Work Plan, or QAPP?		YES	NO			
Comment:						
Were sample holding times		YES	NO			
Comment:						
	Herbicides					
Method:	Method 8151A					
Date Sampled:	4/17/2025					
Date Extracted:	4/22/2025					
Date Analyzed:	4/28/2025					
Holding Time:	7 Days for Extraction, 40 days from extraction					
Acceptability:	OK					

Detection/Reporting Limits		
Were the reporting/detection limits in accordance with the SAP?	YES	NO
Comment:		

Surrogate Spikes		
Were surrogate recoveries within control limits?	YES	NO
Comment:		

Matrix Spike/Matrix Spike Duplicates		
Were matrix spike recoveries within control limits?	YES	NO
Comment:		
Were matrix spike duplicates recoveries within control limits?	YES	NO
Comment:		

Laboratory Control Samples/Laboratory Control Sample Duplicates		
Were laboratory control sample recoveries within control limits?	YES	NO
Comment:		
Were laboratory control sample duplicate recoveries within control limits?	YES	NO
Comment:		

Method Blanks		
Were method blanks free of target analyte contamination?	YES	NO
Comment:		

Field Duplicate					
Were duplicate relative percent difference (RPDs) within control limits?		Yes	No		
Comment: Field Duplicate at SMW-2 (labled on COC as SMW-12)					
Acceptability:		OK			

Quality Assurance / Quality Control Review

Project:	*Sunnyside Airport Supplemental Groundwater Monitoring*	Analytical Lab:	*Onsite Environmental Inc.*
Job Number:	*Strata Geosciences (25-053M), Mott MacDonald (518300032)*	Sampling Event:	*4-17-2025 Sampling Event*
Lab Data Set:	*2504-304*	Sample Type:	*Groundwater*

The quality assurance/quality control (QA/QC) review examines the handling and analysis of samples and data as specified in the following guidelines:
- USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (EPA 540/R-99/008, USEPA, June 2008)
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (EPA 540-R-04-004, USEPA, January 2010)

The QA/QC Review includes: methods, chain of custody, sample condition, holding times, method detection limits, method reporting limits, surrogate spikes, matrix spikes, laboratory control samples, laboratory control sample duplicates, and method blanks. For this sampling event, the analytical laboratory was Onsite Environmental Inc. and the methods are listed.

The following section summarizes deviations from the laboratory narratives and reports. Data were evaluated based on control limits provided by the analytical lab (Onsite Envrionmental) established by their Quality Assurance Plan and State lab accreditation and data quality criteria.

Methods, Chain of Custody and Sample Condition

Did the lab identify any issues related to the analytical results?	YES	NO
Comment: SMW-1, SMW-2, SMW-12, SMW-3 continuing calibration failed the +/- 20% control value and are estimated values (EPA 8081B), flagged with "Y1" flags. Some detections flagged with "P" flags due to analytical and confirmation column exceeding 40%, these results meet method criteria but may be caused by interferences in sample matrix. Some PQLs not achieved for SMW-1 and SMW-3, due to insufficient volumes (Method 8270/SIM).		
Were sample Chain-of-Custody forms complete?	YES	NO
Comment:		
Were all analyses requested for the samples on the COCs performed?	YES	NO
Comment:		
Were samples received in good conditions at the appropriate temperature?	YES	NO
Comment:		

Method and Holding Times

Were the reported analytical methods in compliance with the COC, Work Plan, or QAPP?		YES	NO			
Comment:						
Were sample holding times		YES	NO			
Comment:						
Constituents	Organochlorine Pesticides	Organophosphorus Pesticides	Nitrates			
Method:	Method 8081B	Method 8270/SIM	EPA 353.2			
Date Sampled:	4/17/2025	4/17/2025	4/17/2025			
Date Extracted:	4/22/2025	4/23/2025	4/18/2025			
Date Analyzed:	4/22/2025	4/23/2025	4/18/2025			
Holding Time:	7 Days for Extraction, 40 days from extraction	7 Days for Extraction, 40 days from extraction	48 hours			
Acceptability:	OK	OK	OK			

Detection/Reporting Limits

Were the reporting/detection limits in accordance with the SAP?	YES	NO
Comment:		

Surrogate Spikes

Were surrogate recoveries within control limits?	YES	NO
Comment:		

Matrix Spike/Matrix Spike Duplicates

Were matrix spike recoveries within control limits?	YES	NO
Comment: One recovery value was slightly above control limits, however, the samples were non-detect for the analyte (EPA8270/SIM, MS/MSD for Malathion flagged with "I,I"; Control limts 71-107%, slightly outside range with 118% for MS and 108% for MSD, RPD is within limits).		
Were matrix spike duplicates recoveries within control limits?	YES	NO
Comment: One recovery value was slightly above control limits, however, the samples were non-detect for the analyte (EPA8270/SIM, MS/MSD for Malathion flagged with "I,I"; Control limts 71-107%, slightly outside range with 118% for MS and 108% for MSD, RPD is within limits).		

Laboratory Control Samples/Laboratory Control Sample Duplicates

Were laboratory control sample recoveries within control limits?	YES	NO
Comment:		
Were laboratory control sample duplicate recoveries within control limits?	YES	NO
Comment:		

Method Blanks

Were method blanks free of target analyte contamination?	YES	NO
Comment: For Method 8081B, one Method blank for HCBD was flagged with "Y1" (continuing calibration outside 20% acceptance criteria, value is estimate), however result is listed as Non-detect.		

Quality Assurance / Quality Control Review

Project:	*Sunnyside Airport Supplemental Groundwater Monitoring*	Analytical Lab:	*Alliance Technical Group*
Job Number:	*Strata Geosciences (25-053M), Mott MacDonald (518300032)*	Sampling Event:	*5-28-2025 Sampling Event*
Lab Data Set:	*05-382*	Sample Type:	*Groundwater*

The quality assurance/quality control (QA/QC) review examines the handling and analysis of samples and data as specified in the following guidelines:
- USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (EPA 540/R-99/008, USEPA, June 2008)
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (EPA 540-R-04-004, USEPA, January 2010)

The QA/QC Review includes: methods, chain of custody, sample condition, holding times, method detection limits, method reporting limits, surrogate spikes, matrix spikes, laboratory control samples, laboratory control sample duplicates, and method blanks. For this sampling event, the analytical laboratory was Alliance Technical Group (subcontracted by Onsite Environmental) and the methods are listed.

The following section summarizes deviations from the laboratory narratives and reports. Data were evaluated based on control limits provided by the analytical lab (Alliance Technical Group, subcontracted by Onsite Environmental) established by their Quality Assurance Plan and State lab accreditation and data quality criteria.

Methods, Chain of Custody and Sample Condition

Did the lab identify any issues related to the analytical results?	YES	NO
Comment: SMW-1, SMW-3, and SMW-4 have "Q" flags for some constituents for calibration below acceptance criteria, result may be low-biased. SMW-2, SMW-12, "Q" Flags and "S" flag for outlying surrogate recovery is high biased but sample is non-detect and meets QC requirements. SMW-3 flagged with "*" for associated LCS is above acceptance criteria, result high-biased.		
Were sample Chain-of-Custody forms complete?	YES	NO
Comment:		
Were all analyses requested for the samples on the COCs performed?	YES	NO
Comment:		
Were samples received in good conditions at the appropriate temperature?	YES	NO
Comment:		

Method and Holding Times

Were the reported analytical methods in compliance with the COC, Work Plan, or QAPP?		YES	NO			
Comment:						
Were sample holding times		YES	NO			
Comment:						
	Herbicides					
Method:	Method 8151A					
Date Sampled:	4/17/2025					
Date Extracted:	4/22/2025					
Date Analyzed:	4/28/2025					
Holding Time:	7 Days for Extraction, 40 days from extraction					
Acceptability:	OK					

Detection/Reporting Limits

Were the reporting/detection limits in accordance with the SAP?	YES	NO
Comment:		

Surrogate Spikes

Were surrogate recoveries within control limits?	YES	NO
Comment:		

Matrix Spike/Matrix Spike Duplicates

Were matrix spike recoveries within control limits?	YES	NO
Comment: Flagged "S" for outlying surrogate recovery observed and spiked amount was low relateive to sample concentration leading to outlying spike recoveries.		
Were matrix spike duplicates recoveries within control limits?	YES	NO

Comment: Flagged "S" for outlying surrogate recovery observed/duplicate analysis performed and recovered within range. Flag "R" for MSD of Acifluorfen which had high RPD observed but spike recovery is within range.

Laboratory Control Samples/Laboratory Control Sample Duplicates

Were laboratory control sample recoveries within control limits?	YES	NO
Comment: Flagged "I" for internal standards outside acceptance criteria and result is an estimate; flagged "S" for outlying surrogate recovery observed		
Were laboratory control sample duplicate recoveries within control limits?	YES	NO
Comment:		

Method Blanks

Were method blanks free of target analyte contamination?	YES	NO
Comment:		

Field Duplicate

Were duplicate relative percent difference (RPDs) within control limits?		Yes	No		
Comment: Field Duplicate at SMW-2 (labled on COC as SMW-12)					
Acceptability:		OK			

Quality Assurance / Quality Control Review

Project:	*Sunnyside Airport Supplemental Groundwater Monitoring*	Analytical Lab:	*Onsite Environmental Inc.*
Job Number:	*Strata Geosciences (25-053M), Mott MacDonald (518300032)*	Sampling Event:	*5-28-2025 Sampling Event*
Lab Data Set:	*2505-382*	Sample Type:	*Groundwater*

The quality assurance/quality control (QA/QC) review examines the handling and analysis of samples and data as specified in the following guidelines:
- USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (EPA 540/R-99/008, USEPA, June 2008)
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (EPA 540-R-04-004, USEPA, January 2010)

The QA/QC Review includes: methods, chain of custody, sample condition, holding times, method detection limits, method reporting limits, surrogate spikes, matrix spikes, laboratory control samples, laboratory control sample duplicates, and method blanks. For this sampling event, the analytical laboratory was Onsite Environmental Inc. and the methods are listed.

The following section summarizes deviations from the laboratory narratives and reports. Data were evaluated based on control limits provided by the analytical lab (Onsite Envrionmental) established by their Quality Assurance Plan and State lab accreditation and data quality criteria.

Methods, Chain of Custody and Sample Condition

Did the lab identify any issues related to the analytical results?	YES	NO
Comment: EPA 8270/SIM - PQLs were not achievable for all samples, some compounds are reported at the lowest level possible. Method 8081B - Toxaphene results for SMW-1, SMW-2, SMW-12, and SMW-3 do not match spectral analysis and are estimates. PQLs not achievable fro some samples due to high interferences, compounds reported at lowest level possible.		
Were sample Chain-of-Custody forms complete?	YES	NO
Comment:		
Were all analyses requested for the samples on the COCs performed?	YES	NO
Comment:		
Were samples received in good conditions at the appropriate temperature?	YES	NO
Comment:		

Method and Holding Times

Were the reported analytical methods in compliance with the COC, Work Plan, or QAPP?	YES	NO
Comment:		
Were sample holding times	YES	NO
Comment:		

	Organochlorine Pesticides	Organophosphorus Pesticides	Nitrates	Total RCRA Metals (+Cu,Zi,Ni)		
Method:	Method 8081B	Method 8270/SIM	EPA 353.2	EPA 200.8/7470A		
Date Sampled:	5/28/2025	5/28/2025	5/28/2025	5/28/2025		
Date Extracted:	5/30/2025	6/2/2025	5/29/2025	6/2/2025		
Date Analyzed:	5/30/2025	6/2/2025	5/29/2025	6/2/2025		
Holding Time:	7 Days for Extraction, 40 days from extraction	7 Days for Extraction, 40 days from extraction	48 hours	6 mo		
Acceptability:	OK	OK	OK	OK		

Detection/Reporting Limits

Were the reporting/detection limits in accordance with the SAP?	YES	NO
Comment:		

Surrogate Spikes

Were surrogate recoveries within control limits?	YES	NO
Comment:		

Matrix Spike/Matrix Spike Duplicates

Were matrix spike recoveries within control limits?	YES	NO
Comment:		
Were matrix spike duplicates recoveries within control limits?	YES	NO
Comment:		

Laboratory Control Samples/Laboratory Control Sample Duplicates

Were laboratory control sample recoveries within control limits?	YES	NO
Comment:		
Were laboratory control sample duplicate recoveries within control limits?	YES	NO
Comment:		

Method Blanks

Were method blanks free of target analyte contamination?	YES	NO
Comment: