Michael Baker
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2025 Annual Report

Port of Alaska, MS4 Permit 052426

Prepared for:

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We Make a Difference

2025 Annual Report

Port of Alaska, Storm Water Management Program

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Acronym List

ADEC	Alaska Department of Environmental Conservation
POA	Port of Alaska
SWMP	Storm Water Management Program
SWPP	Storm Water Pollution Prevention
APDES	Alaska Pollutant Discharge Elimination System
MOA	Municipality of Anchorage
IDDE	Illicit Discharge Detection and Elimination
PEO	Public Education and Outreach
MCM	Minimum Control Measure
USEPA	United States Environmental Protection Agency
USC	United States Code
MS4	Municipal Separate Storm Sewer System
DMR	Discharge Monitoring Report
QAPP	Quality Assurance Protection Plan
BMPs	Best Management Practices
TAH	Total Aromatic Hydrocarbons
TAqH	Total Aqueous Hydrocarbons
VOC	Volatile Organic Chemicals
AAC	Alaska Administrative Code
CGP	Construction General Permit
OWS	Oil-Water Separator
PP/GH	Pollution Prevention and Good Housekeeping
SDS	Storm drain system

1. Introduction

This Port of Alaska (POA) Storm Water Management Program (SWMP) Annual Report has been prepared for calendar year 2025, in accordance with requirements of the Alaska Pollutant Discharge Elimination System (APDES) Municipal Separate Storm Sewer System (MS4) Permit, number AKS052426, held by POA and renewed for five years as of August 2020. As of 2025, the 2020 permit is on an Administrative Continuance pending the delineation of responsibility for two storm drain systems (SDS) at the southern end of the POA.

This report provides a summary of the efficacy of each element or activity of the POA's SWMP for 2025 and includes a review of the following:

- Application of minimum control measures (MCMs) as identified in the MS4 Permit (see Section 3)
- Monitoring, evaluation, reporting and record-keeping activities

The purpose of this report is to:

- Provide an assessment of the efficacy of each of these elements.
- Identify any anticipated or expected changes to such implementation and activities including changes to monitoring frequency or extent, good housekeeping or BMPs.
- Evaluate the compliance of activities with the requirements of the MS4 permit.
- Identify progress towards measurable and long-term goals of the MS4 permit or the SWMP, and.
- Indicate any change in responsibility regarding geographic areas under POA or leaseholder management or changes in POA or third-party assistance towards fulfilling permit obligations.

The POA's MS4 permit (AKS052426) was renewed as of August 2020. Most of the prior elements, permit and reporting requirements remain the same as under the prior (2015-2020) MS4 permit authorization. One noteworthy change is the requirement for online 'e-reporting' of Discharge Monitoring Reports (DMRs) under the new NetDMR Reporting System managed by the U.S. Environmental Protection Agency (USEPA).

Responsibility for development and implementation of the SWMP processes and guidelines sits with the Port Director, Port Engineering Manager, leaseholders and SWPP Team members. The POA's designated representative is responsible for providing guidance, management, coordination, and implementation of the SWMP on behalf of POA and assisting POA on MS4 permitting matters as contractually requested.

2. Regulatory Authority and Compliance

This report is intended to comply with the requirements of the POA's MS4 reporting requirements under the APDES. Per 18 AAC 83, the APDES permit issuance and enforcement lies under the regulatory authority of AK Department of Environmental Conservation (ADEC). The APDES program is implemented to comply with the Clean Water Act (33 USC 1342) as regulated by the USEPA.

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3. Minimum Control Measures

Section 3.0 of the MS4 permit lists the following six Minimum Control Measures (MCM) for proper storm water management and permit compliance:

- Public education and outreach.
- Public involvement and participation.
- Illicit discharge detection and elimination.
- Construction site storm water runoff control.
- Post-construction storm water management in new development and redevelopment.
- Pollution prevention and good housekeeping.

This section summarizes the implementation of these control measures during the 2025 reporting period, the effectiveness of each measure, and proposed changes (if any) for the subsequent year.

Public Education and Outreach

The Public Education and Outreach (PEO) component of the MS4 Permit was implemented in 2025. The PEO program is specifically targeted to both POA and leaseholder personnel who may have a role that could affect storm water quality, runoff, or illicit discharges and response. The PEO program focuses on illicit discharge detection and elimination (IDDE) training and is conducted annually.

This annual training typically consists of a presentation, in either video or slide format, that:

- Identifies storm water regulations and regulatory authorities
- Indicates the purpose of storm water regulations and guidelines
- Identifies and defines illicit discharges, and
- Indicates methods for detecting and identifying illicit discharges to storm water systems.

Many of the POA leaseholders have contracts with an outside organization to provide this IDDE training.

In addition, IDDE elements, storm water controls, discharge events and other related topics were brought up and discussed at the quarterly SWPP Team meetings.

Another element of Public Education and Outreach under the POA MS4 permit and SWMP involves stenciling of all POA storm drain inlets on the property. POA has undertaked a program to renew the stenciling or otherwise clearly mark each inlet. The goal is to have 50% of storm drain inlets stenciled or otherwise marked every two years (i.e., 50% by August 2022, the remaining 50% of inlets by 2024). However, ablation of stencilin occurs due to heavy vehicle traffic, winter grit and other factors. POA will continue to stencil or otherwise mark inlets to achieve the goal of having all inlets (100%) stenciled between the years 2025 and 2029.

Public Involvement and Participation

The Public Involvement and Participation program focuses primarily on POA personnel and leaseholders. Public involvement and participation beyond the POA itself and the leaseholders are generally limited to information made available on the POA stormwater website:

https://www.portofalaska.com/business/storm-water-management/

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This site provides public access to the following POA information related to its MS4 permit:

- List of SWPP Team members
- Prior three years' Annual MS4 Reports
- POA's current MS4 Permit
- Definitions of common storm water terms

The POA Storm Water website also indicates availability of SWPP Team meeting minutes up on request.

Illicit Discharge Detection and Elimination

The primary purpose of the SWMP under the MS4 permit is to detect, resolve, and eliminate all illicit discharges within the POA storm water system, and to prevent such discharges in the future. In addition to required compliance with 18 AAC 83 under ADEC's authority, the POA is also a branch of the Municipality of Anchorage and is thus subject to MOA Code 15.50.020. This describes 'Prohibited Acts' in the context of Watershed District Regulations, and among other such acts includes:

> "(9). Pollute, contaminate, discharge, or dump any water, refuse, debris or material into any reservoir, pipeline, stream, rill, drainage, runoff, watercourse or ither groundwater and surface water source or supply."

Wet Weather Monitoring

The MS4 permit requires implementation of an ongoing wet weather screening program. The purpose of this screening program is to detect the presence of illicit discharges and connections or other pollution issues relating to the storm drain system (SDS). The POA's wet weather screening program consists of collecting visual observations and testing of water quality parameters once or twice per year (depending on parameter). Wet weather monitoring requirements, parameters, and frequency are outlined in the Monitoring Program Plan and QAPP. Outfalls 001, 002, and 003 were identified in the MS4 permit as the representative outfalls requiring monitoring and sampling; there are no monitoring requirements for Outfalls 004 through 008.

Wet weather monitoring, field observations, and analytical sample collection was conducted for Outfalls 001, 002, and 003 on 12 May (Event 1) and 12 September 2025 (Event 2). These results are included in the Event 1 summaries. Field samples were collected directly from the outfall locations in 5-gallon buckets. Samples were then transported by hand from the outfall locations to a nearby flat ground surface for ease-of-transfer into laboratory supplied analytical containers and vials. Field measurements were conducted using the remaining water in the buckets and Nalgene bottles.

Temperature, conductivity, salinity, and dissolved oxygen were measured using a YSI ProSolo handheld digital water quality meter, while pH was measured using either a YSI EcoSense pH10A pen, Hanna pen, or similar device. All instruments were calibrated within five days prior to field deployment for sampling. The YSI ProSolo meter was calibrated using 1,413 µS/cm conductivity standard, and by entering the current local barometric pressure. The pH meters were three-point calibrated using pH 4.01 pH 7.00, and pH 10.01 buffer solution.

Biochemical oxygen demand, chemical oxygen demand, total suspended solids and total dissolved solids were analyzed by a certified laboratory rather than in the field.

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Table 1 indicates the findings of these water quality measurements.

Table 1: Outfall Sampling, Water Quality Parameter

Parameter	Unit	Acceptable Range	Outfall 1	Outfall 2	Outfall 3
Estimated Flow	C.F./s	N/A	0.13	0.033	0.04
Temperature	Deg. C	<15 C	9.6 – 11.4	10.3 – 10.8	9.3 – 10.2
pH		6.5 – 8.5	7.24 – 7.56	7.34 – 7.86	7.01 – 7.3
Sheen		Virtually none	None	None	None[1]
Dissolved Oxygen	mg/L	6.0 – 17.0	11.35	11.37	N/A
B.O.D.	mg/L	N/A	2.36	ND[2] 2.00	N/A
C.O.D.	mg/L	N/A	59.3	43.6	N/A
TSS	mg/L	N/A	107	1240	N/A
Cadmium[3]	µg/L	5	N/A	N/A	N/A
Copper[3]	µg/L	N/A	N/A	N/A	N/A
Lead[3]	µg/L	N/A	N/A	N/A	N/A
Zinc[3]	µg/L	N/A	N/A	N/A	N/A
Hardness (as CaCO3)	mg/L	N/A	N/A	N/A	N/A
Salinity	mg/L	N/A	N/A	N/A	N/A

1 – No sheen was noted at Outfall 003, however there was a slight odor at this outfall

2 – ND = 'non-detectable'; number following 'ND' indicates the lower detectable threshold for laboratory analysis

3 – Acceptable Range based on 'Drinking Water' standards from *Alaska Water Quality Criteria Manual for Toxic and Other Deleterious Organic and Inorganic Substances* (ADEC, 2022)

Results were compared to acceptable ranges or action levels presented in the MS4 APDES permit authorization. However, the 'Total Suspended Solids' analysis from Outfall 002 in September, 2025 was well above anticipated levels although it did not appear visibly elevated above standard background levels of upper Cook Inlet tidal waters. POA will pay note to the TSS levels during the 2026 sampling efforts for Outfall 002.

The results were also used to complete the online discharge monitoring report (DMR) via the EPA's NetDMR system. As of 2021, no paper DMRs are required or submitted. The fully executed chains-of custody are included in Appendix B.

Analytical results included testing for total aromatic hydrocarbons (TAH) and total aqueous hydrocarbons (TAqH), which are calculations based on analysis for volatile organic compounds (VOC) and polycyclic aromatic hydrocarbons. TAH and TAqH summations were compared to permit action levels which are based on 18 Alaska Administrative Code (AAC) 70, Water Quality Standards.

TAH analytical results are summarized in Tables 2 and 3 on the following page.

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Table 2: Outfall Sampling Event 1, TAH Results (in µg/L)

Location (Outfall)	1	2	3
			18 AAC 70 Action Level: 10 µg/L
Benzene	ND 0.400	ND 0.400	0.74
Ethylbenzene	ND 1.00	ND 1.00	1.18
Xylenes (total)	ND 3.00	ND 3.00	3.43
Toluene	ND 1.00	ND 1.00	ND 1.00
TAH Summation	ND 2.70	ND 2.70	5.35

Table 3: Outfall Sampling Event 2, TAH Results (in µg/L)

Location (Outfall)	1	2	3
			18 AAC 70 Action Level: 10 µg/L
Benzene	ND 0.400	ND 0.400	0.5
Ethylbenzene	2.9	ND 1.00	ND 1.00
Xylenes (total)	ND 3.00	ND 3.00	ND 3.00
Toluene	ND 1.00	ND 1.00	ND 1.00
TAH Summation	5.1	ND 2.70	3.0

Outfall 001 results were completely below detectable limits for the first sampling event (May 12, 2025), however the 2nd sampling event in October 2024 found elevated levels of a single analyte, ethylbenzene. While detectable, the concentration is below ADEC action thresholds, and represents a reduction towards the acceptable norm from levels detected in 2024. This is most likely due to an inadvertent release of petrochemical into the system. The source of the elevated ethylbenzene levels in SDS 001 is unknown. Following thaw and breakup, POA will be reviewing both the SDS001 system grounds and the early 2026 sampling results. Should elevated levels of TAH analytes once again be detected in 2026, POA will work with ADEC to develop an identification and monitoring plan for SDS 001 contaminants.

TAH concentrations were all below both the detectable limits and the action level of 10 micrograms per liter (µg/L) for Outfall 002 across both sampling events.

Analytes for Outfall 003 indicated no presence of toluene across either sampling event. The remaining analytes ranged from 0.74 to 3.43 µg/L for Event 1. Results from Event 2 sampling showed only benzene as a detectable analyte at 05 µg/L. The TAH summations for Outfall 003 were below the action level for both sampling events, indicating better conditions that the 2024 sampling. Since this outfall has previously indicated higher TAH concentrations, POA will closely monitor 2026 concentrations. Should 2026 resutls indicated unacceptably elevated levels, POA will work with ADEC to develop a System 003 Monitoring/Sampling Plan, in order to identify the source and mitigate the TAH contaminants.

TAqH analytical results are summarized in Tables 4 and 5, below.

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Table 4: Outfall Sampling Event 1, TAqH Results (in µg/L)

Location (Outfall)	1	2	3
			18 AAC 70 Action Level: 15 µg/L
Acenaphthene	ND 0.0455	ND 0.0463	ND 0.0455
Acenaphthylene	ND 0.0455	ND 0.0463	ND 0.0455
Anthracene	ND 0.0455	ND 0.0463	ND 0.0455
Benzo(a)Anthracene	ND 0.0455	ND 0.0463	ND 0.0455
Benzo[a]pyrene	ND 0.0182	ND 0.0185	ND 0.0182
Benzo[b]Fluoranthene	ND 0.0455	ND 0.0463	ND 0.0455
Benzo[g,h,i]perylene	ND 0.0455	ND 0.0463	ND 0.0455
Benzo[k]fluoranthene	ND 0.0455	ND 0.0463	ND 0.0455
Chrysene	ND 0.0455	ND 0.0463	ND 0.0455
Dibenzo[a,h]anthracene	ND 0.0182	ND 0.0185	ND 0.0182
Fluoranthene	0.0462	ND 0.0463	ND 0.0455
Fluorene	ND 0.0455	ND 0.0463	ND 0.0455
Indeno[1,2,3-c,d] pyrene	ND 0.0455	ND 0.0463	ND 0.0455
Naphthalene	ND 0.0909	ND 0.0926	ND 0.0909
Phenanthrene	ND 0.0909	ND 0.0926	ND 0.0909
Pyrene	0.0589	ND 0.0463	ND 0.0455
TAqH Summation	0.4417	ND 0.3889	ND 0.3821

Table 5: Outfall Sampling Event 2, TAqH Results (in µg/L)

Location (Outfall)	1	2	3
			18 AAC 70 Action Level: 15 µg/L
Acenaphthene	ND 0.0455	ND 0.0463	ND 0.0472
Acenaphthylene	ND 0.0455	ND 0.0463	ND 0.0472
Anthracene	ND 0.0455	ND 0.0463	ND 0.0472
Benzo(a)Anthracene	ND 0.0455	ND 0.0463	ND 0.0472
Benzo[a]pyrene	ND 0.0182	ND 0.0185	ND 0.0189
Benzo[b]Fluoranthene	ND 0.0455	ND 0.0463	ND 0.0472
Benzo[g,h,i]perylene	ND 0.0455	ND 0.0463	ND 0.0472
Benzo[k]fluoranthene	ND 0.0455	ND 0.0463	ND 0.0472
Chrysene	ND 0.0455	ND 0.0463	ND 0.0472
Dibenzo[a,h]anthracene	ND 0.0182	ND 0.0185	ND 0.0189
Fluoranthene	ND 0.0455	ND 0.0463	ND 0.0472
Fluorene	ND 0.0455	ND 0.0463	ND 0.0472
Indeno[1,2,3-c,d] pyrene	ND 0.0455	ND 0.0463	ND 0.0472
Naphthalene	ND 0.0909	ND 0.0926	0.156
Phenanthrene	ND 0.0909	ND 0.0926	ND 0.0943
Pyrene	ND 0.0455	ND 0.0463	ND 0.0472
TAqH Summation	ND 0.3821	ND 0.3889	0.5053

TAqH concentrations were all well below the action level of 15 µg/L in samples from Outfalls 001, 002 and 003. All analytes from Outfall 002 were below detectable thresholds for both Event 1 and Event 2. Most analytes for Outfalls 001 and 003 were below detectable limits, however Outfall 001 indicated detectable Fluoranthene during Event 1, and Outfall 003 indicated detectable Naphthalene during Event 2. These detections were all below actionable limits both individually and cumulatively.

All the above water quality monitoring information may be found on the DMRs in Appendix B. Copies of complete analytical results are available upon request.

Dry Weather Screening

The MS4 permit requires implementation of an ongoing dry weather screening program. The purpose of this screening program is to detect the presence of illicit connections and discharges or other water quality issues affecting the Port's SDS. The POA's dry weather screening program consists of:

- An awareness program for POA and leaseholder personnel.
- Outfall screening efforts.
- Regular site-wide visual inspections.

No dry weather analytical testing was conducted on any of the outfalls during 2025.

The main idea behind dry weather screening is to determine whether illicit discharges are occurring, in theory made easier because dry weather should include no flow. ***However, given the high tidal range of Cook Inlet, the POA's geographical position within this tidal range, and the extent of the POA drainage network, our observations start with the fact that even after the low tide, the POA storm drain system continues to discharge tidal water that is flushed up through the system twice daily***. The tidal extent is identifiable based on the presence of silts and fines within the SDS matching the sediment in Cook Inlet.

It is worth noting that, as part of the program of storm drain system improvements, POA is introducing tide valves, which may affect or curtail the extent of inundation into and up the SDS network during regular high tides.

Outfalls 001, 002, and 003 are visually screened at least once per year during a period of relatively dry weather, and as close to low tide as possible. Outfall screening is aimed at detecting illicit discharges and/or connections via the presence of solid waste, petroleum sheen, and/or unusual odors. The general condition and functionality of each outfall is noted to ensure the system is discharging appropriately. As required by the MS4 permit, each outfall was observed within the term of the permit and documented accordingly.

On 7 July, 4 September, and 16 September 2025, outfalls were visually inspected at or near low tide. All inspections included Outfalls 001, 002 and 003. The 4 September inspection included additional outfalls (004 through 008). Outfall 007 is not observable, as it is hidden behind and below fill material.

All observed outfalls appeared to be functional, adequately discharging storm water and/or tidal water from the system. Outfall 008 is in poor physical condition, with visible degradation of the corrugated pipe; however, it is still discharging storm water appropriately. For most outfalls, low to moderate flows of clear or slightly turbid water were observed, with no sheen, foaming or any other indication of illicit discharge. A very slight odor is typically detectable at Outfall 003; this outfall serves the storm system running below

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and through much of the tank farm area along the southern extent of POA property. There is also likely residual ground and groundwater contamination in this area, and the pipe seams of the storm water system may be aging and allowing groundwater penetration.

As of late 2023, Outfall 002 is in a new location, approximately 150 feet south of the original outfall pipe. Follwonig reconstruction along the North Expansion coastal wall, the old outgall is no longer visible.

Site-wide visual inspections were performed in 2025 during relatively dry weather periods to look for evidence of illicit discharges, poor housekeeping, storm water control effectiveness and to confirm whether POA and leaseholders are adhering to the SWMP. The site-wide visual inspection consists of inspecting exterior areas across the entire Port (i.e., excluding buildings and interior spaces). The site-wide visual inspection focuses on identifying illicit discharges, solid waste accumulation, identifying onsite and off-site sources of potential pollution, and checking for prohibited outdoor work activities. A total of three unannounced inspections were conducted throughout 2025.

In general, the Port facilities are maintained in good, clean condition. The issue noted most frequently during site inspections is the accumulation of debris, generally consistent with winter road grit and traction sand. This accumulation is particularly visible in and around snow storage areas and areas where winter grit had accumulated and not been appropriately collected and stored for disposal or reuse. Good housekeeping, BMP maintenance and post-winter cleanup of sand and grit were mentioned and reiterated at SWMP Team quarterly meetings.

Construction Site Storm Water Runoff Control

The Construction Site Storm Water Runoff Control program was successfully implemented in 2025. For active construction projects disturbing greater than one acre within the jurisdiction of the Port, the Contractor shall obtain authorization under the APDES Construction General Permit (CGP). Projects disturbing greater than 10,000 square feet, but less than one acre, must coordinate improvements with POA to avoid, minimize, and mitigate adverse impacts to water quality.

The Port reviewed one construction Storm Water Pollution Prevention Plan (SWPPP) for a construction/demolition project in 2025 to ensure compliance with the Port's SWMP. Coverage under the CGP was required for Port construction projects associated with the PCT Access Road project.

Unannounced site inspections of Port facilities were conducted on an intermittent basis throughout 2025. The Northern Expansion Stabilization project was observed in conjunction with the contractor and their environmental consultant for general compliance with storm water regulations and informally inspected at least once during active construction.

Post-Construction Storm Water Management (New Development / Redevelopment)

The Post-Construction Storm Water Management program for new development or redevelopment was implemented in 2025. POA requires a plan review for any proposed permanent storm water conveyance, drainage or treatment designs or changes. POA must receive, review, and approve a Post-Construction Site Form, prepared by the relevant contractor, prior to allowing any such construction to proceed.

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The responsible party for any such construction project must prepare a post-construction design for permanent storm water controls as applicable. This design should include plans, specifications, design details and descriptions of BMPs that will be implemented to minimize or prevent discharge of pollutants to the POA's MS4 system following completion of construction.

Pollution Prevention and Good Housekeeping

The POA covers approximately 220 acres in total. Of that, approximately 81 acres are managed under long-term lease by the leaseholders, including Tote, Matson, Marathon, Delta Western, AFSC/Menzies, and ABI/AS&G. Another 31 acres is used for temporary staging. The POA is directly responsible for public areas not under lease agreement, while the leaseholders are responsible for the 81 acres under lease. A description of leaseholder pollution prevention and good housekeeping (PP/GH) and storm water controls can be found in Section 3.0 of the SWMP.

Table 6 summarizes the PP/GH measures typical of each land use type under POA responsibility.

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Table 6: Pollution Prevention and Good Housekeeping Elements per POA Area

POA Area Type	Applicable Pollution Prevention / Good Housekeeping Measures
Roads / streets	POA is responsible for maintaining and cleaning public drive access across the POA, and implements grit placement in winter as well as street sweeping, washing, and vacuuming as appropriate to minimize and remove accumulated grit, dust, and debris
Parking lots	POA implements ongoing street sweeping, washing, and vacuuming procedures to minimize the accumulation of suspended solids in storm water and to reduce air pollution. This effort is prevalent during spring breakup.
Maintenance / storage areas	POA maintenance and storage areas are controlled, covered areas where traffic patterns are not a hazard. Materials are stored within a secondary containment unit or above a sealed ground surface to avoid incidental contact with surface water runoff.
Waste transfer stations	Solid wastes are disposed of in non-leaking, lidded dumpsters to prevent refuse from blowing away or precipitation from entering and corroding the dumpsters. Any solid waste container leaks are contained so that the leakage and/or solid waste will not enter the SDS. Any dumpster found to be leaking is repaired or replaced immediately. Solid waste containers are located at least 50 feet from the nearest storm drain inlet.
Snow storage areas	Snow storage sites comply with ADEC snow storage site requirements and guidelines. Dumping, pushing, placing, or blowing snow into any drainage ditch or storm drain inlet is strictly prohibited.
Fleet maintenance shops	POA maintenance and fabrication activities for vehicle fleet and equipment are performed inside or under cover unless it is not possible to do so. Primary fleet maintenance areas incorporate a contained trap for grit and other pollutants. Outdoor storage areas have materials stored within secondary containment units or above a sealed ground surface to avoid incidental contact with surface water runoff.
Sand / salt storage areas	Sand is stored in a large, prefabricated tent to shield the stockpile from storm (wind or rain) erosion and sedimentation. The tent door is opened for import of new sand or removal of sand for winter placement. The amount removed is limited to the amount needed for application. When no sand is being loaded or removed from the hut, the doors are shut.
Ditches, culverts, catch basins, storm drains and outfalls	POA maintains an ongoing program of cleaning, maintenance, and repair of ditches, catch basins, culverts, and outfalls. Following a comprehensive MS4 system review, POA is undertaking MS4 system repairs and improvements. POA will continue to monitor, inspect, evaluate, and improve the SDS.

Pollution prevention and housekeeping of areas under lease, including parking, drive lanes, staging and material storage, vehicle maintenance, and solid waste storage are the responsibility of the leaseholder. Areas serving as bulk fuel or contaminant storage have additional pollution prevention requirements.

Effectiveness of Controls

A summary of the efficacy of BMPs, source reduction and elimination measures, and source control measures implemented by POA and leaseholders within the MS4 coverage area may be found in the tables in Appendix C. These BMPs have been installed and implemented in accordance with the SWMP. This

review also identifies discrepancies between current measures and controls enacted by POA or leaseholders and those required under the SWMP. Any such discrepancy noted will include a discussion of each discrepancy and recommendations on how to correct or ameliorate the discrepancy so as to bring each facility into compliance with the SWMP. If no discrepancy currently exists, the Port or Stakeholder facility is not mentioned here.

Maintenance Schedules and Records

POA and each leaseholder is responsible for adhering to their own facility-specific maintenance schedules, and for documenting and retaining associated maintenance records. These records are not included in this report but can be made available upon request to POA. To improve maintenance record tracking, retention, and availability, an Oil-Water Separator (OWS) and Sump Inspection Plan along with associated maintenance log were created in March 2017. This Plan and Inspection Log is retained in the Port Maintenance Building.

Long-Term Inspection Procedures

Long-term inspection procedures include a preventative maintenance program and regular inspections of the POA and leaseholder areas. The preventive maintenance program involves inspections of components of the storm water management system. The following systems and equipment are inspected at POA and leaseholder facilities:

1. **Storm drain network**. The whole system within the MS4 boundary is inspected annually, at a minimum. In addition, the system is inspected immediately when impeded flow conditions are detected. Debris that has collected in ditches, swales and catch basins is removed periodically throughout the year, although this activity is most frequent following spring melt and runoff.
2. **Fuel storage, refueling areas, and tank truck loading racks**. These features are inspected periodically and no less than annually. Inspections in these areas look for system integrity issues such as leaks, cracking, corrosion, or other wear or physical damage that can pose an increased risk of spill or indicate reduced containment capacity. Additional contaminant spill prevention requirements apply to these areas. If contaminants – such as fuels – are noted to have escaped into secondary containment, or if an obvious risk of contaminant release or secondary containment failure is noted, the facility in question will be immediately closed off and shut down until corrective action is taken and completed.
3. **Oil-water separators**. These features are inspected frequently by POA maintenance personnel. Depending upon the condition when inspected, these features are cleaned and services as necessary to maintain functionality and prevent overloading. If critical integrity concerns are identified, the OWS is removed from use and repairs or other corrective action is implemented immediately.

Annual Evaluation

The PP/GH MCM was implemented in 2025, with a few exceptions. POA and all leaseholders followed PP/GH measures outlined in the SWMP, however due to key personnel turnover, POA was unable to complete the IDDE training for relevant personnel prior to 31 December 2025. The initial corrective measure identified is that POA will conduct the IDDE training prior to March 1, 2026. This report will be resubmitted to indicate the revision.

The measurable PP/GH goals proposed for POA are on track for achievement according to the schedule in Table 7.

Table 7: Storm Water Management Program Measurable Goals, by MCM

Minimum Control Measure and Measurable Goal	Attainment Date
Public Education and Outreach	
- ***POA Staff and Leaseholder training***[1]	31 December 2025
Public Involvement and Participation	
- ***Maintain storm water management section on POA website***	31 December 2025 (ongoing)
- ***Renew storm drain stenciling coverage (50% of inlets)***	31 August 2022
- ***Renew storm drain stenciling coverage (100% of inlets)***	31 August 2024
Illicit Discharge Detection and Elimination	
- ***Conduct wet weather water quality monitoring***	12 September 2025 (ongoing)
- ***Conduct dry weather outfall screening***	7 July 2025 (ongoing)
- ***Identify water quality baseline for surface water draining into POA system***	12 September 2025 (ongoing)
- ***Identify locations of groundwater contaminant penetration into POA system***	12 September 2025 (ongoing)
- ***Complete comprehensive survey/assessment of storm system***	21 October 2021
Construction site Storm Water Runoff	
- ***Implement the POA Construction Site Runoff Control Program***	31 December 2025 (ongoing)
Post-Construction Storm Water Management (Re- or New Development)	
- ***Implement the POA Post-Construction Runoff Program***	31 December 2025 (ongoing)
Pollution Prevention and Good Housekeeping	
- ***Assess storm drain network for priority maintenance needs***	31 December 2025 (ongoing)
- ***Develop a comprehensive maintenance schedule for the storm system***	21 October 2021
- ***Incorporate maintenance and IDDE tracking into the POA's GIS database***	Ongoing

1 – POA has not completed IDDE training for employees prior to 31 December 2025.

The storm drain network was thoroughly reviewed in 2021 and a comprehensive, systemwide improvements schedule for the Port facilities is underway. This comprehensive redevelopment began in late 2023 with the design of SDS #1; this system is expected to be in reconstruction in 2026. Remaining SDSs are planned for design and repair implementation over subsequent years. The Port is completing their integration of facility systems and records into a GIS database system. An ongoing goal is to incorporate MCMs under the MS4 permit into this new tracking system. The Port considers this plan to be effective and in compliance with the current MS4 permit; no changes to the program itself or associated measurable goals are proposed for the upcoming year.

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4. Monitoring, Evaluation, Reporting and Record-Keeping

Monitoring Program Plan and QAPP

Results of dry and wet weather monitoring efforts have been presented in the preceding sections and indicate that monitoring and screening programs are effective at detecting illicit discharges and/or connections or other water quality impacts. Both the MS4 Monitoring Program Plan and QAPP are being updated in early 2026 to ensure compliance with the current MS4 permit and anticipated 2026 reissuance.

Evaluation of Overall Program Effectiveness

A review of the adequacy and efficacy of the overall Storm Water Management Program will be provided in this section of current and future Annual Reports. POA has had a storm water management plan in effect since 1995, when the MS4 permit was first issued by the USEPA under the National Pollutant and Discharge Elimination System (now APDES). As a result, protection of storm water quality and prevention of sedimentation, erosion and contaminant pollution has been a priority for POA for over 25 years. BMPs, structural controls, education programs, and maintenance practices to protect water quality have always been a common goal amongst the Port and Stakeholders. Key elements of the 2025 reporting period were detailed in Section 3.0.

Reporting

Spill Reporting

Table 8, below, provides a summary of all reported spills, leaks and accidental discharges of pollutants that occurred within the POA's boundary during 2025.

Table 8: Notable Spills & Leaks Reported, 1 January 2024 – 31 December 2024

Facility	Date	Type	Amount	Description
POA	3/24/25	Unknown petroleum	Unk.	Sheen on water reported near POL-1 during transfer. Ship and transfer lines were inspected, no leak or source was found. ADEC was notified. Sheen was no longer visible when Security officers arrived on site.
	4/8/25	Diesel/ heating oil	1 gal.	Diesel discovered during demolition of former Transit Shed at POA, possibly remant from former heating oil tank / boiler system. Contaminant was contained in room, combination of absorbent materials and hand tools to scoop out contaminated sands. All materials collected and disposed of by Republic Services.
	6/15/25	Coolant	10 gal.	United Freight truck had coolant line leak. Driver moved truck further from storm drain; no coolant entered system. An absorbent ring was placed around SDS inlet and absorbent pads used to lift the spill.
	12/16/25	Jet fuel	Unk.	Splash from leftover jet fuel in line (Line #5) following transfer from ship to shore near PCT. Quantity unreported, response unreported (respondent followed incorrect reporting/recording).

TOTE	4/1/25	Hydraulic fluid	5 gal.	Heavy equipment hydraulic line leak. Resolution unlisted.
	5/2/25	Oil	1 cup	Oil filler cup on SSA van came loose. Sea Star and TOTE cleaned up with absorbent materials.
	5/4/25	Oil	1 cup	Leaking POV. Sea Star and TOTE cleaned up with absorbent materials.
	5/26/25	Coolant	1.5 gal.	Leaking tractor trailer. Sea Star and TOTE cleaned up with absorbent materials.
	5/27/25	Hydraulic fluid	2 gal.	Tractor drill hydraulic line came loose. Sea Star and TOTE cleaned up with absorbent materials.
	8/10/25	Diesel fuel	3 gal.	Tipped container spilled. Sea Star and TOTE cleaned up with absorbent materials.
	8/10/25	Milk	1 gal.	Tipped container spilled. Sea Star and TOTE cleaned up with absorbent materials.
	8/13/25	Gasoline	2 gal.	Fuel nozzle sprayed during vehicle tank topping. Sea Star, TOTE and Republic Services cleaned up with absorbent materials, socks, pads and vac truck.
	9/14/25	Hydraulic fluid	¼ cup	Sight glass sheared off of yard hustler. TOTE and Sea Star responded - absorbent material.
	10/1/25	Diesel	1-2 gal.	Spilled from crane footpad due to tank overflow. Sea Star and TOTE cleaned up with absorbent materials.
	10/12/25	Hydraulic fluid	1 quart	Leaking tractor. Sea Star and TOTE cleaned up with absorbent materials.
	11/10/25	Gasoline	1 quart	Vehicle hauler leaked fuel. TOTE scraped up and disposed of contaminated snow/ice.
	11/11/25	Hydraulic fluid	½ cup	Vehicle transport trailer leaked. TOTE and Sea Star scraped up and disposed of contaminated snow/ice.
	11/12/25	Hydraulic fluid	5-10 gal.	Grader blew fluid on startup. TOTE and Sea Star scraped up and disposed of contaminated snow/ice.
	11/24/25	Hydraulic fluid	½ cup	Trailer leaked fluid. TOTE and Sea Star scraped up and disposed of contaminated snow/ice. Disposed of through Republic Services.
Matson	***No spills data provided prior to report submittal***			
Marathon	9/20/25	Gasoline	2 gal.	Spill into the concrete VRU secondary containment area. Resolution unknown
AFSC/ Menzies	No spills recorded for 2025			
ABI	No spills recorded for 2025			

This table is updated annually. Any spills, leaks or discharges not reported to POA or observed by POA personnel will not be included in Table 8 nor in this report; any such discharges would be noncompliant with terms of the MS4 permit and the leaseholder agreements with POA.

Annual Reporting

Annual reports will be prepared each for each reporting period (calendar year) to document MS4 compliance methods and efficacy for that reporting period. These summary reports will include supporting documentation, including the SWMP. These reports will be submitted to ADEC each year by February 15 of the year following the reporting period, will be posted on the POA's website, and will be distributed to all SWPP Team members and leaseholders.

Record-Keeping

The POA maintains records and copies of all relevant and pertinent reporting materials under the MS4 permit, including:

- Copies of each year's DMRs
- The current APDES permit (AKS052426)
- SWPP Team Quarterly Meeting minutes
- Records of data used to complete the annual reporting
- Data used to complete the APDES permit application
- Data used to generate the SWMP

These records will be retained for a period of at least three years, or for the term of the current 5-year permit (2020-2025), whichever is longer. These records will be made available to ADEC or the public if requested to do so in writing.

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Appendix A. Site Map

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2024 Sampling Location
Storm Water Outfall
MOA Storm Water Outfall
Storm Water Catchment Basin
Storm Water Pipe
Storm Water Ditch
MS4 Boundary

Leases Current
Matson
TOTE

ABI
ACS
AT&T
Crowley Fuels LLC
Delta Western
Intertek USA Caleb Brett
Manson Construction Company
Menzies Aviation
North Star Terminal & Stevedore, LLC
PRL
Tesoro

Port of Alaska
MS4 Area and Outfall Locations

0 500 1,000
US Feet

PORT of ALASKA IN ANCHORAGE

2025 MS4 Annual Report

Appendix B. Analytical Results and Chain of Custody Forms

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Laboratory Report of Analysis

To: Michael Baker International
3900 C St SUite 900
Anchorage, AK 99503

Report Number: **1251970**

Client Project: **POA Stormwater 2025**

Dear Pat Whitesell,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

_____

Justin Nelson Date
Project Manager
Justin.Nelson@sgs.com

SGS North America Inc. 200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Case Narrative

SGS Client: **Michael Baker International**
SGS Project: **1251970**
Project Name/Site: **POA Stormwater 2025**
Project Contact: **Pat Whitesell**

Refer to sample receipt form for information on sample condition.

POA SDS 3 (1251970001) PS

8270E SIM - PAH surrogate recovery for 2-Methylnaphthalene-d10 (31.3%) does not meet QC criteria. The sample was re-extracted outside of hold, and results confirmed. In-hold data is reported.

POA SDS 1 (1251970002) PS

8270E SIM - PAH surrogate recovery for 2-Methylnaphthalene-d10 (37.3%) does not meet QC criteria. The sample was re-extracted outside of hold, and results confirmed. In-hold data is reported.

1251974001DUP (1821129) DUP

2540D - Total Suspended Solids - Sample duplicate RPD was outside of acceptance limits. The difference between sample and duplicate results is less than the LOQ.

1251969001(1821443MS) (1821449) MS

410.4 - Chemical Oxygen Demand - MS recovery is outside of QC criteria. Refer to LCS for accuracy requirements.

1251969001(1821443MSD) (1821450) MSD

410.4 - Chemical Oxygen Demand - MSD recovery is outside of QC criteria. Refer to LCS for accuracy requirements.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270E, 8270E-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 3/4 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
TNTC	Too Numerous To Count
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
POA SDS 3	1251970001	05/12/2025	05/13/2025	Water (Surface, Eff., Ground)
POA SDS 1	1251970002	05/12/2025	05/13/2025	Water (Surface, Eff., Ground)
POA SDS 2	1251970003	05/12/2025	05/13/2025	Water (Surface, Eff., Ground)
Trip Blank	1251970004	05/12/2025	05/13/2025	Water (Surface, Eff., Ground)

Method	Method Description
EPA 602/624.1	602 Aromatics by 624 (W)
EPA 625.1M SIM (PAH) LV	625 PAH SIM GC/MS Low Volume
SM21 5210B	Biochemical Oxygen Demand SM21 5210B
EPA 410.4	Chemical Oxygen Demand
SM21 2540D	Total Suspended Solids SM20 2540D

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Detectable Results Summary

Client Sample ID: **POA SDS 3**
Lab Sample ID: 1251970001

Volatile GC/MS

Parameter	Result	Units
Benzene	0.740	ug/L
Ethylbenzene	1.18	ug/L
P & M -Xylene	2.43	ug/L

Client Sample ID: **POA SDS 1**
Lab Sample ID: 1251970002

Microbiology Laboratory

Parameter	Result	Units
Biochemical Oxygen Demand	2.08	mg/L

Polynuclear Aromatics GC/MS

Parameter	Result	Units
Fluoranthene	0.0462	ug/L
Pyrene	0.0589	ug/L

Waters Department

Parameter	Result	Units
Chemical Oxygen Demand	59.3	mg/L
Total Suspended Solids	107	mg/L

Client Sample ID: **POA SDS 2**
Lab Sample ID: 1251970003

Waters Department

Parameter	Result	Units
Chemical Oxygen Demand	43.6	mg/L
Total Suspended Solids	98.0	mg/L

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Results of **POA SDS 3**

Client Sample ID: **POA SDS 3**
Client Project ID: **POA Stormwater 2025**
Lab Sample ID: 1251970001
Lab Project ID: 1251970

Collection Date: 05/12/25 16:00
Received Date: 05/13/25 09:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual		LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Acenaphthene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:42
Acenaphthylene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:42
Anthracene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:42
Benzo(a)Anthracene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:42
Benzo[a]pyrene	0.0182	U		0.0182	0.00564	ug/L	1		05/18/25 17:42
Benzo[b]Fluoranthene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:42
Benzo[g,h,i]perylene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:42
Benzo[k]fluoranthene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:42
Chrysene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:42
Dibenzo[a,h]anthracene	0.0182	U		0.0182	0.00564	ug/L	1		05/18/25 17:42
Fluoranthene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:42
Fluorene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:42
Indeno[1,2,3-c,d] pyrene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:42
Naphthalene	0.0909	U		0.0909	0.0282	ug/L	1		05/18/25 17:42
Phenanthrene	0.0909	U		0.0909	0.0282	ug/L	1		05/18/25 17:42
Pyrene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:42
Surrogates									
2-Methylnaphthalene-d10 (surr)	31.3		*	38-100		%	1		05/18/25 17:42
Fluoranthene-d10 (surr)	66			30-111		%	1		05/18/25 17:42

Batch Information

Analytical Batch: XMS14880
Analytical Method: EPA 625.1M SIM (PAH) LV
Analyst: GLDC
Analytical Date/Time: 05/18/25 17:42
Container ID: 1251970001-D

Prep Batch: XXX51333
Prep Method: SW3535A
Prep Date/Time: 05/16/25 13:39
Prep Initial Wt./Vol.: 275 mL
Prep Extract Vol: 1 mL

Print Date: 05/30/2025 9:58:23AM

Results of **POA SDS 3**

Client Sample ID: **POA SDS 3**
Client Project ID: **POA Stormwater 2025**
Lab Sample ID: 1251970001
Lab Project ID: 1251970

Collection Date: 05/12/25 16:00
Received Date: 05/13/25 09:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.740		0.400	0.120	ug/L	1		05/25/25 11:49
Ethylbenzene	1.18		1.00	0.310	ug/L	1		05/25/25 11:49
o-Xylene	1.00	U	1.00	0.310	ug/L	1		05/25/25 11:49
P & M -Xylene	2.43		2.00	0.620	ug/L	1		05/25/25 11:49
Toluene	1.00	U	1.00	0.310	ug/L	1		05/25/25 11:49
Surrogates								
1,2-Dichloroethane-D4 (surr)	113		81-118		%	1		05/25/25 11:49
4-Bromofluorobenzene (surr)	89.3		85-114		%	1		05/25/25 11:49
Toluene-d8 (surr)	95.6		89-112		%	1		05/25/25 11:49

Batch Information

Analytical Batch: VMS24346
Analytical Method: EPA 602/624.1
Analyst: APB
Analytical Date/Time: 05/25/25 11:49
Container ID: 1251970001-A

Prep Batch: VXX42901
Prep Method: SW5030B
Prep Date/Time: 05/24/25 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **POA SDS 1**

Client Sample ID: **POA SDS 1**
Client Project ID: **POA Stormwater 2025**
Lab Sample ID: 1251970002
Lab Project ID: 1251970

Collection Date: 05/12/25 16:30
Received Date: 05/13/25 09:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.08		2.00	2.00	mg/L	1		05/14/25 10:34

Batch Information

Analytical Batch: BOD7973
Analytical Method: SM21 5210B
Analyst: APS
Analytical Date/Time: 05/14/25 10:34
Container ID: 1251970002-G

Print Date: 05/30/2025 9:58:23AM

Results of **POA SDS 1**

Client Sample ID: **POA SDS 1**
Client Project ID: **POA Stormwater 2025**
Lab Sample ID: 1251970002
Lab Project ID: 1251970

Collection Date: 05/12/25 16:30
Received Date: 05/13/25 09:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual		LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Acenaphthene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:59
Acenaphthylene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:59
Anthracene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:59
Benzo(a)Anthracene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:59
Benzo[a]pyrene	0.0182	U		0.0182	0.00564	ug/L	1		05/18/25 17:59
Benzo[b]Fluoranthene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:59
Benzo[g,h,i]perylene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:59
Benzo[k]fluoranthene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:59
Chrysene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:59
Dibenzo[a,h]anthracene	0.0182	U		0.0182	0.00564	ug/L	1		05/18/25 17:59
Fluoranthene	0.0462			0.0455	0.0136	ug/L	1		05/18/25 17:59
Fluorene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:59
Indeno[1,2,3-c,d] pyrene	0.0455	U		0.0455	0.0136	ug/L	1		05/18/25 17:59
Naphthalene	0.0909	U		0.0909	0.0282	ug/L	1		05/18/25 17:59
Phenanthrene	0.0909	U		0.0909	0.0282	ug/L	1		05/18/25 17:59
Pyrene	0.0589			0.0455	0.0136	ug/L	1		05/18/25 17:59
Surrogates									
2-Methylnaphthalene-d10 (surr)	37.3		*	38-100		%	1		05/18/25 17:59
Fluoranthene-d10 (surr)	64			30-111		%	1		05/18/25 17:59

Batch Information

Analytical Batch: XMS14880
Analytical Method: EPA 625.1M SIM (PAH) LV
Analyst: GLDC
Analytical Date/Time: 05/18/25 17:59
Container ID: 1251970002-D

Prep Batch: XXX51333
Prep Method: SW3535A
Prep Date/Time: 05/16/25 13:39
Prep Initial Wt./Vol.: 275 mL
Prep Extract Vol: 1 mL

Print Date: 05/30/2025 9:58:23AM

Results of **POA SDS 1**

Client Sample ID: **POA SDS 1**
Client Project ID: **POA Stormwater 2025**
Lab Sample ID: 1251970002
Lab Project ID: 1251970

Collection Date: 05/12/25 16:30
Received Date: 05/13/25 09:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.400	U	0.400	0.120	ug/L	1		05/25/25 11:33
Ethylbenzene	1.00	U	1.00	0.310	ug/L	1		05/25/25 11:33
o-Xylene	1.00	U	1.00	0.310	ug/L	1		05/25/25 11:33
P & M -Xylene	2.00	U	2.00	0.620	ug/L	1		05/25/25 11:33
Toluene	1.00	U	1.00	0.310	ug/L	1		05/25/25 11:33
Surrogates								
1,2-Dichloroethane-D4 (surr)	117		81-118		%	1		05/25/25 11:33
4-Bromofluorobenzene (surr)	91		85-114		%	1		05/25/25 11:33
Toluene-d8 (surr)	94.8		89-112		%	1		05/25/25 11:33

Batch Information

Analytical Batch: VMS24346
Analytical Method: EPA 602/624.1
Analyst: APB
Analytical Date/Time: 05/25/25 11:33
Container ID: 1251970002-A

Prep Batch: VXX42901
Prep Method: SW5030B
Prep Date/Time: 05/24/25 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **POA SDS 1**

Client Sample ID: **POA SDS 1**
Client Project ID: **POA Stormwater 2025**
Lab Sample ID: 1251970002
Lab Project ID: 1251970

Collection Date: 05/12/25 16:30
Received Date: 05/13/25 09:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chemical Oxygen Demand	59.3		20.0	6.20	mg/L	1		05/16/25 11:43

Batch Information

Analytical Batch: WSP5953
Analytical Method: EPA 410.4
Analyst: DAT
Analytical Date/Time: 05/16/25 11:43
Container ID: 1251970002-I

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	107		10.0	3.10	mg/L	1		05/15/25 18:29

Batch Information

Analytical Batch: STS8228
Analytical Method: SM21 2540D
Analyst: DAT
Analytical Date/Time: 05/15/25 18:29
Container ID: 1251970002-H

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Results of **POA SDS 2**

Client Sample ID: **POA SDS 2**
Client Project ID: **POA Stormwater 2025**
Lab Sample ID: 1251970003
Lab Project ID: 1251970

Collection Date: 05/12/25 17:10
Received Date: 05/13/25 09:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00	U	2.00	2.00	mg/L	1		05/14/25 10:34

Batch Information

Analytical Batch: BOD7973
Analytical Method: SM21 5210B
Analyst: APS
Analytical Date/Time: 05/14/25 10:34
Container ID: 1251970003-G

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Results of **POA SDS 2**

Client Sample ID: **POA SDS 2**
Client Project ID: **POA Stormwater 2025**
Lab Sample ID: 1251970003
Lab Project ID: 1251970

Collection Date: 05/12/25 17:10
Received Date: 05/13/25 09:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Acenaphthene	0.0463	U	0.0463	0.0139	ug/L	1		05/18/25 18:15
Acenaphthylene	0.0463	U	0.0463	0.0139	ug/L	1		05/18/25 18:15
Anthracene	0.0463	U	0.0463	0.0139	ug/L	1		05/18/25 18:15
Benzo(a)Anthracene	0.0463	U	0.0463	0.0139	ug/L	1		05/18/25 18:15
Benzo[a]pyrene	0.0185	U	0.0185	0.00574	ug/L	1		05/18/25 18:15
Benzo[b]Fluoranthene	0.0463	U	0.0463	0.0139	ug/L	1		05/18/25 18:15
Benzo[g,h,i]perylene	0.0463	U	0.0463	0.0139	ug/L	1		05/18/25 18:15
Benzo[k]fluoranthene	0.0463	U	0.0463	0.0139	ug/L	1		05/18/25 18:15
Chrysene	0.0463	U	0.0463	0.0139	ug/L	1		05/18/25 18:15
Dibenzo[a,h]anthracene	0.0185	U	0.0185	0.00574	ug/L	1		05/18/25 18:15
Fluoranthene	0.0463	U	0.0463	0.0139	ug/L	1		05/18/25 18:15
Fluorene	0.0463	U	0.0463	0.0139	ug/L	1		05/18/25 18:15
Indeno[1,2,3-c,d] pyrene	0.0463	U	0.0463	0.0139	ug/L	1		05/18/25 18:15
Naphthalene	0.0926	U	0.0926	0.0287	ug/L	1		05/18/25 18:15
Phenanthrene	0.0926	U	0.0926	0.0287	ug/L	1		05/18/25 18:15
Pyrene	0.0463	U	0.0463	0.0139	ug/L	1		05/18/25 18:15
Surrogates								
2-Methylnaphthalene-d10 (surr)	39.7		38-100		%	1		05/18/25 18:15
Fluoranthene-d10 (surr)	53		30-111		%	1		05/18/25 18:15

Batch Information

Analytical Batch: XMS14880
Analytical Method: EPA 625.1M SIM (PAH) LV
Analyst: GLDC
Analytical Date/Time: 05/18/25 18:15
Container ID: 1251970003-D

Prep Batch: XXX51333
Prep Method: SW3535A
Prep Date/Time: 05/16/25 13:39
Prep Initial Wt./Vol.: 270 mL
Prep Extract Vol: 1 mL

Print Date: 05/30/2025 9:58:23AM

Results of **POA SDS 2**

Client Sample ID: **POA SDS 2**
Client Project ID: **POA Stormwater 2025**
Lab Sample ID: 1251970003
Lab Project ID: 1251970

Collection Date: 05/12/25 17:10
Received Date: 05/13/25 09:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.400	U	0.400	0.120	ug/L	1		05/25/25 12:05
Ethylbenzene	1.00	U	1.00	0.310	ug/L	1		05/25/25 12:05
o-Xylene	1.00	U	1.00	0.310	ug/L	1		05/25/25 12:05
P & M -Xylene	2.00	U	2.00	0.620	ug/L	1		05/25/25 12:05
Toluene	1.00	U	1.00	0.310	ug/L	1		05/25/25 12:05
Surrogates								
1,2-Dichloroethane-D4 (surr)	104		81-118		%	1		05/25/25 12:05
4-Bromofluorobenzene (surr)	89.9		85-114		%	1		05/25/25 12:05
Toluene-d8 (surr)	95.2		89-112		%	1		05/25/25 12:05

Batch Information

Analytical Batch: VMS24346
Analytical Method: EPA 602/624.1
Analyst: APB
Analytical Date/Time: 05/25/25 12:05
Container ID: 1251970003-A

Prep Batch: VXX42901
Prep Method: SW5030B
Prep Date/Time: 05/24/25 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of **POA SDS 2**

Client Sample ID: **POA SDS 2**
Client Project ID: **POA Stormwater 2025**
Lab Sample ID: 1251970003
Lab Project ID: 1251970

Collection Date: 05/12/25 17:10
Received Date: 05/13/25 09:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chemical Oxygen Demand	43.6		20.0	6.20	mg/L	1		05/16/25 11:43

Batch Information

Analytical Batch: WSP5953
Analytical Method: EPA 410.4
Analyst: DAT
Analytical Date/Time: 05/16/25 11:43
Container ID: 1251970003-I

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	98.0		10.0	3.10	mg/L	1		05/15/25 18:29

Batch Information

Analytical Batch: STS8228
Analytical Method: SM21 2540D
Analyst: DAT
Analytical Date/Time: 05/15/25 18:29
Container ID: 1251970003-H

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Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **POA Stormwater 2025**
Lab Sample ID: 1251970004
Lab Project ID: 1251970

Collection Date: 05/12/25 16:00
Received Date: 05/13/25 09:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.400	U	0.400	0.120	ug/L	1		05/24/25 21:58
Ethylbenzene	1.00	U	1.00	0.310	ug/L	1		05/24/25 21:58
o-Xylene	1.00	U	1.00	0.310	ug/L	1		05/24/25 21:58
P & M -Xylene	2.00	U	2.00	0.620	ug/L	1		05/24/25 21:58
Toluene	1.00	U	1.00	0.310	ug/L	1		05/24/25 21:58
Surrogates								
1,2-Dichloroethane-D4 (surr)	117		81-118		%	1		05/24/25 21:58
4-Bromofluorobenzene (surr)	91.7		85-114		%	1		05/24/25 21:58
Toluene-d8 (surr)	96		89-112		%	1		05/24/25 21:58

Batch Information

Analytical Batch: VMS24346
Analytical Method: EPA 602/624.1
Analyst: APB
Analytical Date/Time: 05/24/25 21:58
Container ID: 1251970004-A

Prep Batch: VXX42901
Prep Method: SW5030B
Prep Date/Time: 05/24/25 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1911785 [BOD/7973]
Blank Lab ID: 1821007

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1251970002, 1251970003

Results by **SM21 5210B**

Parameter	Results	LOQ/CL	DL	LOD	Units
Biochemical Oxygen Demand	2.00U	2.00	2.00	2.00	mg/L

Batch Information

Analytical Batch: BOD7973
Analytical Method: SM21 5210B
Instrument:
Analyst: APS
Analytical Date/Time: 5/14/2025 10:34:00AM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1251970 [BOD7973]
Blank Spike Lab ID: 1821008
Date Analyzed: 05/14/2025 10:34

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1251970002, 1251970003

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	193	98	(84.6-115.4

Batch Information

Analytical Batch: **BOD7973**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **APS**

Print Date: 05/30/2025 9:58:29AM

Method Blank

Blank ID: MB for HBN 1911810 [STS/8228]
Blank Lab ID: 1821125

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1251970002, 1251970003

Results by **SM21 2540D**

Parameter	Results	LOQ/CL	DL	LOD	Units
Total Suspended Solids	0.750U	1.00	0.310	0.750	mg/L

Batch Information

Analytical Batch: STS8228
Analytical Method: SM21 2540D
Instrument:
Analyst: DAT
Analytical Date/Time: 5/15/2025 6:29:00PM

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Duplicate Sample Summary

Original Sample ID: 1251970002
Duplicate Sample ID: 1821128
QC for Samples:
1251970002, 1251970003

Analysis Date: 05/15/2025 18:29
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

Parameter	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	107	110	mg/L	2.80	(< 10)

Batch Information

Analytical Batch: STS8228
Analytical Method: SM21 2540D
Instrument:
Analyst: DAT

Print Date: 05/30/2025 9:58:35AM

Duplicate Sample Summary

Original Sample ID: 1251974001
Duplicate Sample ID: 1821129
QC for Samples:
1251970003

Analysis Date: 05/15/2025 18:29
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

Parameter	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	31.0	28.0	mg/L	10.20*	(< 10)

Batch Information

Analytical Batch: STS8228
Analytical Method: SM21 2540D
Instrument:
Analyst: DAT

Print Date: 05/30/2025 9:58:35AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1251970 [STS8228]
Blank Spike Lab ID: 1821126
Date Analyzed: 05/15/2025 18:29

Spike Duplicate ID: LCSD for HBN 1251970 [STS8228]
Spike Duplicate Lab ID: 1821127
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1251970002, 1251970003

Results by **SM21 2540D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Suspended Solids	25	24.0	96	25	24.3	97	(75-125)	1.20	(< 10)

Batch Information

Analytical Batch: **STS8228**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **DAT**

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Method Blank

Blank ID: MB for HBN 1912427 [VXX/42901]
Blank Lab ID: 1822962

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1251970001, 1251970002, 1251970003, 1251970004

Results by **EPA 602/624.1**

Parameter	Results	LOQ/CL	DL	LOD	Units
Benzene	0.300U	0.400	0.120	0.300	ug/L
Ethylbenzene	0.750U	1.00	0.310	0.750	ug/L
o-Xylene	0.750U	1.00	0.310	0.750	ug/L
P & M -Xylene	1.50U	2.00	0.620	1.50	ug/L
Toluene	0.750U	1.00	0.310	0.750	ug/L
Surrogates					
1,2-Dichloroethane-D4 (surr)	111	81-118		0	%
4-Bromofluorobenzene (surr)	91.9	85-114		0	%
Toluene-d8 (surr)	94.9	89-112		0	%

Batch Information

Analytical Batch: VMS24346
Analytical Method: EPA 602/624.1
Instrument: Agilent 7890-75MS
Analyst: APB
Analytical Date/Time: 5/24/2025 7:55:00PM

Prep Batch: VXX42901
Prep Method: SW5030B
Prep Date/Time: 5/24/2025 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1251970 [VXX42901]
Blank Spike Lab ID: 1822963
Date Analyzed: 05/24/2025 20:11

Spike Duplicate ID: LCSD for HBN 1251970 [VXX42901]
Spike Duplicate Lab ID: 1822964
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1251970001, 1251970002, 1251970003, 1251970004

Results by **EPA 602/624.1**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Benzene	30	30.8	103	30	31.3	104	(79-120)	1.50	(< 20)
Ethylbenzene	30	33.4	111	30	31.2	104	(79-121)	7.10	(< 20)
o-Xylene	30	33.9	113	30	31.4	105	(78-122)	7.60	(< 20)
P & M -Xylene	60	68.2	114	60	63.0	105	(80-121)	7.90	(< 20)
Toluene	30	32.2	107	30	29.9	100	(80-121)	7.20	(< 20)
Surrogates									
1,2-Dichloroethane-D4 (surr)	30		93	30		102	(81-118)	9.30	
4-Bromofluorobenzene (surr)	30		94	30		94	(85-114)	0.78	
Toluene-d8 (surr)	30		97	30		98	(89-112)	0.58	

Batch Information

Analytical Batch: **VMS24346**
Analytical Method: **EPA 602/624.1**
Instrument: **Agilent 7890-75MS**
Analyst: **APB**

Prep Batch: **VXX42901**
Prep Method: **SW5030B**
Prep Date/Time: **05/24/2025 06:00**
Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1912043 [WSP/5953]
Blank Lab ID: 1821438

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1251970002, 1251970003

Results by **EPA 410.4**

Parameter	Results	LOQ/CL	DL	LOD	Units
Chemical Oxygen Demand	15.0U	20.0	6.20	15.0	mg/L

Batch Information

Analytical Batch: WSP5953
Analytical Method: EPA 410.4
Instrument: HACH DR2700 Spec.
Analyst: DAT
Analytical Date/Time: 5/16/2025 11:43:00AM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1251970 [WSP5953]
Blank Spike Lab ID: 1821439
Date Analyzed: 05/16/2025 11:43

Spike Duplicate ID: LCSD for HBN 1251970 [WSP5953]
Spike Duplicate Lab ID: 1821440
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1251970002, 1251970003

Results by **EPA 410.4**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Chemical Oxygen Demand	500	504	101	500	504	101	(90-110)	0.11	(< 25)

Batch Information

Analytical Batch: **WSP5953**
Analytical Method: **EPA 410.4**
Instrument: **HACH DR2700 Spec.**
Analyst: **DAT**

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Matrix Spike Summary

Original Sample ID: 1251997001
MS Sample ID: 1821441 MS
MSD Sample ID:

Analysis Date: 05/16/2025 11:43
Analysis Date: 05/16/2025 11:43
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1251970002, 1251970003

Results by **EPA 410.4**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Chemical Oxygen Demand	15.0U	500	510	102				90-110		

Batch Information

Analytical Batch: WSP5953
Analytical Method: EPA 410.4
Instrument: HACH DR2700 Spec.
Analyst: DAT
Analytical Date/Time: 5/16/2025 11:43:00AM

Print Date: 05/30/2025 9:58:54AM

Matrix Spike Summary

Original Sample ID: 1821443
MS Sample ID: 1821449 MS
MSD Sample ID: 1821450 MSD

Analysis Date: 05/16/2025 11:43
Analysis Date: 05/16/2025 11:43
Analysis Date: 05/16/2025 11:43
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1251970002, 1251970003

Results by **EPA 410.4**

		Matrix Spike (mg/L)				Spike Duplicate (mg/L)						
Parameter	Sample	Spike	Result	Rec (%)		Spike	Result	Rec (%)		CL	RPD (%)	RPD CL
Chemical Oxygen Demand	313000	150000	423000	73	*	150000	426000	75	*	90-110	0.60	(< 25)

Batch Information

Analytical Batch: WSP5953
Analytical Method: EPA 410.4
Instrument: HACH DR2700 Spec.
Analyst: DAT
Analytical Date/Time: 5/16/2025 11:43:00AM

Print Date: 05/30/2025 9:58:54AM

Method Blank

Blank ID: MB for HBN 1911938 [XXX/51333]
Blank Lab ID: 1821290

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1251970001, 1251970002, 1251970003

Results by **EPA 625.1M SIM (PAH) LV**

Parameter	Results	LOQ/CL	DL	LOD	Units
Acenaphthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Acenaphthylene	0.0375U	0.0500	0.0150	0.0375	ug/L
Anthracene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo(a)Anthracene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[a]pyrene	0.0150U	0.0200	0.00620	0.0150	ug/L
Benzo[b]Fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[g,h,i]perylene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[k]fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Chrysene	0.0375U	0.0500	0.0150	0.0375	ug/L
Dibenzo[a,h]anthracene	0.0150U	0.0200	0.00620	0.0150	ug/L
Fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Fluorene	0.0375U	0.0500	0.0150	0.0375	ug/L
Indeno[1,2,3-c,d] pyrene	0.0375U	0.0500	0.0150	0.0375	ug/L
Naphthalene	0.0750U	0.100	0.0310	0.0750	ug/L
Phenanthrene	0.0750U	0.100	0.0310	0.0750	ug/L
Pyrene	0.0375U	0.0500	0.0150	0.0375	ug/L
Surrogates					
2-Methylnaphthalene-d10 (surr)	59	38-100		0	%
Fluoranthene-d10 (surr)	79.6	30-111		0	%

Batch Information

Analytical Batch: XMS14880
Analytical Method: EPA 625.1M SIM (PAH) LV
Instrument: Agilent 8890 GC/MS SYA
Analyst: GLDC
Analytical Date/Time: 5/18/2025 4:37:00PM

Prep Batch: XXX51333
Prep Method: SW3535A
Prep Date/Time: 5/16/2025 1:39:00PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1251970 [XXX51333]
Blank Spike Lab ID: 1821291
Date Analyzed: 05/18/2025 16:53

Spike Duplicate ID: LCSD for HBN 1251970 [XXX51333]
Spike Duplicate Lab ID: 1821292
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1251970001, 1251970002, 1251970003

Results by **EPA 625.1M SIM (PAH) LV**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Acenaphthene	2	1.39	70	2	1.55	78	(48-114)	10.80	(< 20)
Acenaphthylene	2	1.28	64	2	1.54	77	(35-121)	18.30	(< 20)
Anthracene	2	1.47	74	2	1.65	83	(53-119)	11.40	(< 20)
Benzo(a)Anthracene	2	1.61	81	2	1.74	87	(59-120)	7.30	(< 20)
Benzo[a]pyrene	2	1.67	83	2	1.84	92	(53-120)	9.60	(< 20)
Benzo[b]Fluoranthene	2	1.75	87	2	1.81	91	(53-126)	3.80	(< 20)
Benzo[g,h,i]perylene	2	1.66	83	2	1.84	92	(44-128)	10.50	(< 20)
Benzo[k]fluoranthene	2	1.77	88	2	1.95	98	(54-125)	9.90	(< 20)
Chrysene	2	1.68	84	2	1.82	91	(57-120)	7.80	(< 20)
Dibenzo[a,h]anthracene	2	1.73	87	2	1.90	95	(44-131)	8.90	(< 20)
Fluoranthene	2	1.56	78	2	1.69	85	(58-120)	7.70	(< 20)
Fluorene	2	1.47	73	2	1.64	82	(50-118)	10.80	(< 20)
Indeno[1,2,3-c,d] pyrene	2	1.69	85	2	1.86	93	(48-130)	9.50	(< 20)
Naphthalene	2	1.27	64	2	1.51	75	(43-114)	16.80	(< 20)
Phenanthrene	2	1.46	73	2	1.60	80	(53-115)	9.20	(< 20)
Pyrene	2	1.68	84	2	1.80	90	(53-121)	6.90	(< 20)
Surrogates									
2-Methylnaphthalene-d10 (surr)	2		63	2		74	(38-100)	16.70	
Fluoranthene-d10 (surr)	2		80	2		87	(30-111)	8.20	

Batch Information

Analytical Batch: **XMS14880**
Analytical Method: **EPA 625.1M SIM (PAH) LV**
Instrument: **Agilent 8890 GC/MS SYA**
Analyst: **GLDC**

Prep Batch: **XXX51333**
Prep Method: **SW3535A**
Prep Date/Time: **05/16/2025 13:39**
Spike Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL

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CHAIN OF CUSTODY RECORD

SGS 200 Anch engag www

1251970

Profile #: 3757616 Int.: CSW

Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Page ___ of ___

Section 1

CLIENT: Michael Baker Int'l	
CONTACT: Patrick Whitesell	PHONE #: 907.273.1603
PROJECT NAME: POA Stormwater 2025	Project/Permit Number: AKS 052426 NPDL Number(DOD):
REPORTS TO:	E-MAIL: patrick.whitesell@mbakerintl.com
INVOICE TO: Patrick Whitesell	QUOTE #: P.O. #:

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Sample Type (Comp / Grab / MI)	HCl: TAH	H2SO4: TAqH	BOD	COD	TSS						REMARKS/LOC ID
1AC	POA SDS 3	5/12/25	16:00		3		X										4AC
1AF	POA SDS 3		16:00		2			X									
2AC	POA SDS 1		16:30		3		X										
2DF	POA SDS 1		16:30		2			X									
2GT	POA SDS 1		16:30		3				X	X	X						
3AC	POA SDS 2		17:10		3		X										
3DF	POA SDS 2		17:10		2			X									
3GT	POA SDS 2		17:10		3				X	X	X						

Comments:

Section 3 — Preservative

Analysis*

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Section 4

DOD Project? YES NO

Data Deliverables Requested

DataView SEDD EQUIS

Level 4 ERPIMS Other:_____

Turnaround Time Requested

Standard

Rush

Requested Rush Report Date:_____

SGS Sample Receipt (Lab Use Only)

Delivery Method: Client Commercial

Did each cooler have a corresponding COC? Yes No

Chain of Custody Seal Condition: INTACT BROKEN ABSENT

COC Seal Location(s):_____

Section 5

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
	5/13/25	0935	MH

Laboratory Use Only

Cooler ID	Temperature (°C)	Therm. ID
1. 1	5.9	DS3
2.		
3.		

If more than three coolers are received, or for documentation of non-compliant coolers, use form FS-0029.

Note: If temp. is outside 0-6 °and samples were not taken <8 hours ago OR are waste samples, Client or PM should initial here or attach an email change order to proceed with analysis. If ice is present, note on form F102B.

Intials:_____

http://www.sgs.com/terms-and-conditions

F083-Blank_COC_20181228

SGS

SAMPLE RECEIPT FORM

1251970

Project Manager Completion				
Was all necessary information recorded on the COC upon receipt? (Temperature, COC seals, etc.?)	(Yes)	No	N/A	
Was temperature between 0-6° C?	(Yes)	No	N/A	If "No", are the samples either exempt* or sampled <8 hours prior to receipt?
Were all analyses received within holding time*?	(Yes)	No	N/A	
Was a method specified for each analysis, where applicable? If no, please note correct methods.	(Yes)	No	N/A	
Are compound lists specified, where applicable? For project specific or special compound lists please note correct analysis code.	Yes	No	(N/A)	
If rush was requested by the client, was the requested TAT approved?	Yes	No	(N/A)	If "NO", what is the approved TAT?
If SEDD Deliverables are required, were Location ID's and an NPDL Number provided?	Yes	No	(N/A)	*If "NO", contact client for information.*
Sample Login Completion				
Do ID's on sample containers match COC?	(Yes)	No	N/A	
If provided on containers, do dates/times collected match COC?	Yes	No	N/A	Note: If times differ <1 hr., record details below and login per COC.
Were all sample containers received in good condition?	(Yes)	No	N/A	
Were proper containers (type/mass/volume/preservative) received for all samples? **See form F-083 "Sample Guide"*	(Yes)	No	N/A	*Note: If 200.8/6020 Total Metals are received unpreserved, preserve, and note HNO3 lot here:* *If 200.8/6020 Dissolved Metals are received unpreserved, log in for LABFILTER and do not preserve.* *For all non-metals methods, inform Project Manager.*
Were Trip Blanks (VOC, GRO, Low-Level Hg, etc.) received with samples, where applicable*?	(Yes)	No	N/A	
Were all VOA vials free of headspace >6mm?	(Yes)	No	N/A	
Were all soil VOA samples received field extracted with Methanol?	Yes	No	(N/A)	
Did all soil VOA samples have an accompanying unpreserved container for % solids?	Yes	No	(N/A)	
If special handling is required, were containers labelled appropriately? e.g. MI/ISM, foreign soils, lab filter, Ref Lab, limited volume	Yes	No	(N/A)	
For Rush/Short Holding time, was the lab notified?	(Yes)	No	N/A	
For any question answered "NO", was the Project Manager notified?	Yes	No	(N/A)	PM Initials:
Was Peer Review of sample numbering/labelling completed?	(Yes)	No	N/A	Reviewer Initials: JGG.

Additional Notes/Clarification where Applicable, including resolution of "No" answers when a change order is not attached:

Received a 1-L container. Proceeded as extra volume and to return to client as F containers

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1251970001-A	HCL to pH < 2	OK			
1251970001-B	HCL to pH < 2	OK			
1251970001-C	HCL to pH < 2	OK			
1251970001-D	No Preservative Required	OK			
1251970001-E	No Preservative Required	OK			
1251970001-F	No Preservative Required	OK			
1251970002-A	HCL to pH < 2	OK			
1251970002-B	HCL to pH < 2	OK			
1251970002-C	HCL to pH < 2	OK			
1251970002-D	No Preservative Required	OK			
1251970002-E	No Preservative Required	OK			
1251970002-F	No Preservative Required	OK			
1251970002-G	No Preservative Required	OK			
1251970002-H	No Preservative Required	OK			
1251970002-I	H2SO4 to pH < 2	OK			
1251970003-A	HCL to pH < 2	OK			
1251970003-B	HCL to pH < 2	OK			
1251970003-C	HCL to pH < 2	OK			
1251970003-D	No Preservative Required	OK			
1251970003-E	No Preservative Required	OK			
1251970003-F	No Preservative Required	OK			
1251970003-G	No Preservative Required	OK			
1251970003-H	No Preservative Required	OK			
1251970003-I	H2SO4 to pH < 2	OK			
1251970004-A	HCL to pH < 2	OK			
1251970004-B	HCL to pH < 2	OK			
1251970004-C	HCL to pH < 2	OK			

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM - The container was received damaged.
FR - The container was received frozen and not usable for Bacteria or BOD analyses.
IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
QN - Insufficient sample quantity provided.

Laboratory Report of Analysis

To: Michael Baker International
3900 C St SUite 900
Anchorage, AK 99503

Report Number: **1254925**

Client Project: **POA MS4 Outfalls 2025**

Dear Pat Whitesell,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

_____

Justin Nelson Date
Project Manager
Justin.Nelson@sgs.com

SGS North America Inc. 200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Case Narrative

SGS Client: **Michael Baker International**
SGS Project: **1254925**
Project Name/Site: **POA MS4 Outfalls 2025**
Project Contact: **Pat Whitesell**

Refer to sample receipt form for information on sample condition.

SDS 1 (1254925001) PS

8270E SIM - PAH LCSD recoveries for multiple analytes do not meet QC criteria. The sample was re-extracted outside of hold time, results confirmed. In-hold data is reported.

SDS 2 (1254925002) PS

8270E SIM - PAH LCSD recoveries for multiple analytes do not meet QC criteria. The sample was re-extracted outside of hold time, results confirmed. In-hold data is reported.

SDS 3 (1254925003) PS

8270E SIM - PAH LCSD recoveries for multiple analytes do not meet QC criteria. The sample was re-extracted outside of hold time, results confirmed. In-hold data is reported.

LCS for HBN 1919035 [VXX/43630 (1845852) LCS

8260D - LCS recoveries for vinyl chloride, chloroethane and trichlorofluoromethane do not meet QC criteria. These analytes are not reported above the LOQ in all associated samples.

LCSD for HBN 1919035 [VXX/4363 (1845853) LCSD

8260D - LCSD RPDs for chloromethane, bromomethane and chloroethane do not meet QC criteria. These analytes are not reported above the LOQ in all associated samples.

LCSD for HBN 1919432 [XXX/5229 (1846765) LCSD

8270E SIM - PAH LCSD recoveries for multiple analytes do not meet QC criteria.
8270E SIM - PAH LCS/LCSD RPDs for multiple analytes do not meet QC criteria.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

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Report of Manual Integrations

Laboratory ID	Client Sample ID	Analytical Batch	Analyte	Reason
EPA 625.1M SIM (PAH) LV				
1846764	LCS for HBN 1919432 [XXX/52292	XMS15092	Benzo[k]fluoranthene	RP
1846765	LCSD for HBN 1919432 [XXX/5229	XMS15092	Benzo[k]fluoranthene	RP

Manual Integration Reason Code Descriptions

Code	Description
O	Original Chromatogram
M	Modified Chromatogram
SS	Skimmed surrogate
BLG	Closed baseline gap
RP	Reassign peak name
PIR	Pattern integration required
IT	Included tail
SP	Split peak
RSP	Removed split peak
FPS	Forced peak start/stop
BLC	Baseline correction
PNF	Peak not found by software

All DRO/RRO analysis are integrated per SOP.

Print Date: 10/02/2025 11:11:00AM

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270E, 8270E-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 3/4 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
TNTC	Too Numerous To Count
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
SDS 1	1254925001	09/12/2025	09/12/2025	Water (Surface, Eff., Ground)
SDS 2	1254925002	09/12/2025	09/12/2025	Water (Surface, Eff., Ground)
SDS 3	1254925003	09/12/2025	09/12/2025	Water (Surface, Eff., Ground)
Trip Blank	1254925004	09/12/2025	09/12/2025	Water (Surface, Eff., Ground)

Method	Method Description
EPA 602/624.1	602 Aromatics by 624 (W)
EPA 625.1M SIM (PAH) LV	625 PAH SIM GC/MS Low Volume
SM21 5210B	Biochemical Oxygen Demand SM21 5210B
EPA 410.4	Chemical Oxygen Demand
SM21 2540D	Total Suspended Solids SM20 2540D

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Detectable Results Summary

Client Sample ID: **SDS 1**
Lab Sample ID: 1254925001

Microbiology Laboratory
Volatile GC/MS
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	2.36	mg/L
Ethylbenzene	2.90	ug/L
Chemical Oxygen Demand	30.7	mg/L
Total Suspended Solids	19.8	mg/L

Client Sample ID: **SDS 2**
Lab Sample ID: 1254925002

Waters Department

Parameter	Result	Units
Total Suspended Solids	1240	mg/L

Client Sample ID: **SDS 3**
Lab Sample ID: 1254925003

Polynuclear Aromatics GC/MS
Volatile GC/MS

Parameter	Result	Units
Naphthalene	0.156	ug/L
Benzene	0.500	ug/L

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Results of **SDS 1**

Client Sample ID: **SDS 1**
Client Project ID: **POA MS4 Outfalls 2025**
Lab Sample ID: 1254925001
Lab Project ID: 1254925

Collection Date: 09/12/25 16:00
Received Date: 09/12/25 16:47
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.36		2.00	2.00	mg/L	1		09/12/25 18:12

Batch Information

Analytical Batch: BOD8083
Analytical Method: SM21 5210B
Analyst: M.A
Analytical Date/Time: 09/12/25 18:12
Container ID: 1254925001-F

Print Date: 10/02/2025 11:11:10AM

Results of **SDS 1**

Client Sample ID: **SDS 1**
Client Project ID: **POA MS4 Outfalls 2025**
Lab Sample ID: 1254925001
Lab Project ID: 1254925

Collection Date: 09/12/25 16:00
Received Date: 09/12/25 16:47
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Acenaphthene	0.0455	U	0.0455	0.0136	ug/L	1		09/22/25 12:08
Acenaphthylene	0.0455	U	0.0455	0.0136	ug/L	1		09/22/25 12:08
Anthracene	0.0455	U	0.0455	0.0136	ug/L	1		09/22/25 12:08
Benzo(a)Anthracene	0.0455	U	0.0455	0.0136	ug/L	1		09/22/25 12:08
Benzo[a]pyrene	0.0182	U	0.0182	0.00564	ug/L	1		09/22/25 12:08
Benzo[b]Fluoranthene	0.0455	U	0.0455	0.0136	ug/L	1		09/22/25 12:08
Benzo[g,h,i]perylene	0.0455	U	0.0455	0.0136	ug/L	1		09/22/25 12:08
Benzo[k]fluoranthene	0.0455	U	0.0455	0.0136	ug/L	1		09/22/25 12:08
Chrysene	0.0455	U	0.0455	0.0136	ug/L	1		09/22/25 12:08
Dibenzo[a,h]anthracene	0.0182	U	0.0182	0.00564	ug/L	1		09/22/25 12:08
Fluoranthene	0.0455	U	0.0455	0.0136	ug/L	1		09/22/25 12:08
Fluorene	0.0455	U	0.0455	0.0136	ug/L	1		09/22/25 12:08
Indeno[1,2,3-c,d] pyrene	0.0455	U	0.0455	0.0136	ug/L	1		09/22/25 12:08
Naphthalene	0.0909	U	0.0909	0.0282	ug/L	1		09/22/25 12:08
Phenanthrene	0.0909	U	0.0909	0.0282	ug/L	1		09/22/25 12:08
Pyrene	0.0455	U	0.0455	0.0136	ug/L	1		09/22/25 12:08
Surrogates								
2-Methylnaphthalene-d10 (surr)	38.9		38-100		%	1		09/22/25 12:08
Fluoranthene-d10 (surr)	57.4		30-111		%	1		09/22/25 12:08

Batch Information

Analytical Batch: XMS15092
Analytical Method: EPA 625.1M SIM (PAH) LV
Analyst: M.C
Analytical Date/Time: 09/22/25 12:08
Container ID: 1254925001-D

Prep Batch: XXX52292
Prep Method: SW3535A
Prep Date/Time: 09/19/25 15:00
Prep Initial Wt./Vol.: 275 mL
Prep Extract Vol: 1 mL

Print Date: 10/02/2025 11:11:10AM

Results of **SDS 1**

Client Sample ID: **SDS 1**
Client Project ID: **POA MS4 Outfalls 2025**
Lab Sample ID: 1254925001
Lab Project ID: 1254925

Collection Date: 09/12/25 16:00
Received Date: 09/12/25 16:47
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.400	U	0.400	0.120	ug/L	1		09/16/25 04:19
Ethylbenzene	2.90		1.00	0.310	ug/L	1		09/16/25 04:19
o-Xylene	1.00	U	1.00	0.310	ug/L	1		09/16/25 04:19
P & M -Xylene	2.00	U	2.00	0.620	ug/L	1		09/16/25 04:19
Toluene	1.00	U	1.00	0.310	ug/L	1		09/16/25 04:19
Surrogates								
1,2-Dichloroethane-D4 (surr)	111		81-118		%	1		09/16/25 04:19
4-Bromofluorobenzene (surr)	94.4		85-114		%	1		09/16/25 04:19
Toluene-d8 (surr)	100		89-112		%	1		09/16/25 04:19

Batch Information

Analytical Batch: VMS24824
Analytical Method: EPA 602/624.1
Analyst: MPB
Analytical Date/Time: 09/16/25 04:19
Container ID: 1254925001-A

Prep Batch: VXX43630
Prep Method: SW5030B
Prep Date/Time: 09/16/25 03:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/02/2025 11:11:10AM

Results of **SDS 1**

Client Sample ID: **SDS 1**
Client Project ID: **POA MS4 Outfalls 2025**
Lab Sample ID: 1254925001
Lab Project ID: 1254925

Collection Date: 09/12/25 16:00
Received Date: 09/12/25 16:47
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chemical Oxygen Demand	30.7		20.0	6.20	mg/L	1		09/15/25 10:50

Batch Information

Analytical Batch: WSP5978
Analytical Method: EPA 410.4
Analyst: DAT
Analytical Date/Time: 09/15/25 10:50
Container ID: 1254925001-G

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	19.8		2.22	0.689	mg/L	1		09/16/25 17:39

Batch Information

Analytical Batch: STS8354
Analytical Method: SM21 2540D
Analyst: DAT
Analytical Date/Time: 09/16/25 17:39
Container ID: 1254925001-H

Print Date: 10/02/2025 11:11:10AM

Results of **SDS 2**

Client Sample ID: **SDS 2**
Client Project ID: **POA MS4 Outfalls 2025**
Lab Sample ID: 1254925002
Lab Project ID: 1254925

Collection Date: 09/12/25 16:00
Received Date: 09/12/25 16:47
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00	U	2.00	2.00	mg/L	1		09/12/25 18:12

Batch Information

Analytical Batch: BOD8083
Analytical Method: SM21 5210B
Analyst: M.A
Analytical Date/Time: 09/12/25 18:12
Container ID: 1254925002-F

Print Date: 10/02/2025 11:11:10AM

Results of **SDS 2**

Client Sample ID: **SDS 2**
Client Project ID: **POA MS4 Outfalls 2025**
Lab Sample ID: 1254925002
Lab Project ID: 1254925

Collection Date: 09/12/25 16:00
Received Date: 09/12/25 16:47
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Acenaphthene	0.0463	U	0.0463	0.0139	ug/L	1		09/22/25 12:25
Acenaphthylene	0.0463	U	0.0463	0.0139	ug/L	1		09/22/25 12:25
Anthracene	0.0463	U	0.0463	0.0139	ug/L	1		09/22/25 12:25
Benzo(a)Anthracene	0.0463	U	0.0463	0.0139	ug/L	1		09/22/25 12:25
Benzo[a]pyrene	0.0185	U	0.0185	0.00574	ug/L	1		09/22/25 12:25
Benzo[b]Fluoranthene	0.0463	U	0.0463	0.0139	ug/L	1		09/22/25 12:25
Benzo[g,h,i]perylene	0.0463	U	0.0463	0.0139	ug/L	1		09/22/25 12:25
Benzo[k]fluoranthene	0.0463	U	0.0463	0.0139	ug/L	1		09/22/25 12:25
Chrysene	0.0463	U	0.0463	0.0139	ug/L	1		09/22/25 12:25
Dibenzo[a,h]anthracene	0.0185	U	0.0185	0.00574	ug/L	1		09/22/25 12:25
Fluoranthene	0.0463	U	0.0463	0.0139	ug/L	1		09/22/25 12:25
Fluorene	0.0463	U	0.0463	0.0139	ug/L	1		09/22/25 12:25
Indeno[1,2,3-c,d] pyrene	0.0463	U	0.0463	0.0139	ug/L	1		09/22/25 12:25
Naphthalene	0.0926	U	0.0926	0.0287	ug/L	1		09/22/25 12:25
Phenanthrene	0.0926	U	0.0926	0.0287	ug/L	1		09/22/25 12:25
Pyrene	0.0463	U	0.0463	0.0139	ug/L	1		09/22/25 12:25
Surrogates								
2-Methylnaphthalene-d10 (surr)	44.2		38-100		%	1		09/22/25 12:25
Fluoranthene-d10 (surr)	55		30-111		%	1		09/22/25 12:25

Batch Information

Analytical Batch: XMS15092
Analytical Method: EPA 625.1M SIM (PAH) LV
Analyst: M.C
Analytical Date/Time: 09/22/25 12:25
Container ID: 1254925002-D

Prep Batch: XXX52292
Prep Method: SW3535A
Prep Date/Time: 09/19/25 15:00
Prep Initial Wt./Vol.: 270 mL
Prep Extract Vol: 1 mL

Print Date: 10/02/2025 11:11:10AM

Results of **SDS 2**

Client Sample ID: **SDS 2**
Client Project ID: **POA MS4 Outfalls 2025**
Lab Sample ID: 1254925002
Lab Project ID: 1254925

Collection Date: 09/12/25 16:00
Received Date: 09/12/25 16:47
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.400	U	0.400	0.120	ug/L	1		09/16/25 04:35
Ethylbenzene	1.00	U	1.00	0.310	ug/L	1		09/16/25 04:35
o-Xylene	1.00	U	1.00	0.310	ug/L	1		09/16/25 04:35
P & M -Xylene	2.00	U	2.00	0.620	ug/L	1		09/16/25 04:35
Toluene	1.00	U	1.00	0.310	ug/L	1		09/16/25 04:35
Surrogates								
1,2-Dichloroethane-D4 (surr)	110		81-118		%	1		09/16/25 04:35
4-Bromofluorobenzene (surr)	95.7		85-114		%	1		09/16/25 04:35
Toluene-d8 (surr)	100		89-112		%	1		09/16/25 04:35

Batch Information

Analytical Batch: VMS24824
Analytical Method: EPA 602/624.1
Analyst: MPB
Analytical Date/Time: 09/16/25 04:35
Container ID: 1254925002-A

Prep Batch: VXX43630
Prep Method: SW5030B
Prep Date/Time: 09/16/25 03:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/02/2025 11:11:10AM

Results of **SDS 2**

Client Sample ID: **SDS 2**
Client Project ID: **POA MS4 Outfalls 2025**
Lab Sample ID: 1254925002
Lab Project ID: 1254925

Collection Date: 09/12/25 16:00
Received Date: 09/12/25 16:47
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chemical Oxygen Demand	20.0	U	20.0	6.20	mg/L	1		09/15/25 10:50

Batch Information

Analytical Batch: WSP5978
Analytical Method: EPA 410.4
Analyst: DAT
Analytical Date/Time: 09/15/25 10:50
Container ID: 1254925002-G

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	1240		100	31.0	mg/L	1		09/16/25 17:39

Batch Information

Analytical Batch: STS8354
Analytical Method: SM21 2540D
Analyst: DAT
Analytical Date/Time: 09/16/25 17:39
Container ID: 1254925002-H

Print Date: 10/02/2025 11:11:10AM

Results of **SDS 3**

Client Sample ID: **SDS 3**
Client Project ID: **POA MS4 Outfalls 2025**
Lab Sample ID: 1254925003
Lab Project ID: 1254925

Collection Date: 09/12/25 08:30
Received Date: 09/12/25 16:47
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polynuclear Aromatics GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Acenaphthene	0.0472	U	0.0472	0.0142	ug/L	1		09/22/25 12:41
Acenaphthylene	0.0472	U	0.0472	0.0142	ug/L	1		09/22/25 12:41
Anthracene	0.0472	U	0.0472	0.0142	ug/L	1		09/22/25 12:41
Benzo(a)Anthracene	0.0472	U	0.0472	0.0142	ug/L	1		09/22/25 12:41
Benzo[a]pyrene	0.0189	U	0.0189	0.00585	ug/L	1		09/22/25 12:41
Benzo[b]Fluoranthene	0.0472	U	0.0472	0.0142	ug/L	1		09/22/25 12:41
Benzo[g,h,i]perylene	0.0472	U	0.0472	0.0142	ug/L	1		09/22/25 12:41
Benzo[k]fluoranthene	0.0472	U	0.0472	0.0142	ug/L	1		09/22/25 12:41
Chrysene	0.0472	U	0.0472	0.0142	ug/L	1		09/22/25 12:41
Dibenzo[a,h]anthracene	0.0189	U	0.0189	0.00585	ug/L	1		09/22/25 12:41
Fluoranthene	0.0472	U	0.0472	0.0142	ug/L	1		09/22/25 12:41
Fluorene	0.0472	U	0.0472	0.0142	ug/L	1		09/22/25 12:41
Indeno[1,2,3-c,d] pyrene	0.0472	U	0.0472	0.0142	ug/L	1		09/22/25 12:41
Naphthalene	0.156		0.0943	0.0292	ug/L	1		09/22/25 12:41
Phenanthrene	0.0943	U	0.0943	0.0292	ug/L	1		09/22/25 12:41
Pyrene	0.0472	U	0.0472	0.0142	ug/L	1		09/22/25 12:41
Surrogates								
2-Methylnaphthalene-d10 (surr)	46.3		38-100		%	1		09/22/25 12:41
Fluoranthene-d10 (surr)	66.7		30-111		%	1		09/22/25 12:41

Batch Information

Analytical Batch: XMS15092
Analytical Method: EPA 625.1M SIM (PAH) LV
Analyst: M.C
Analytical Date/Time: 09/22/25 12:41
Container ID: 1254925003-D

Prep Batch: XXX52292
Prep Method: SW3535A
Prep Date/Time: 09/19/25 15:00
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Print Date: 10/02/2025 11:11:10AM

Results of **SDS 3**

Client Sample ID: **SDS 3**
Client Project ID: **POA MS4 Outfalls 2025**
Lab Sample ID: 1254925003
Lab Project ID: 1254925

Collection Date: 09/12/25 08:30
Received Date: 09/12/25 16:47
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.500		0.400	0.120	ug/L	1		09/16/25 04:50
Ethylbenzene	1.00	U	1.00	0.310	ug/L	1		09/16/25 04:50
o-Xylene	1.00	U	1.00	0.310	ug/L	1		09/16/25 04:50
P & M -Xylene	2.00	U	2.00	0.620	ug/L	1		09/16/25 04:50
Toluene	1.00	U	1.00	0.310	ug/L	1		09/16/25 04:50
Surrogates								
1,2-Dichloroethane-D4 (surr)	113		81-118		%	1		09/16/25 04:50
4-Bromofluorobenzene (surr)	94		85-114		%	1		09/16/25 04:50
Toluene-d8 (surr)	99.7		89-112		%	1		09/16/25 04:50

Batch Information

Analytical Batch: VMS24824
Analytical Method: EPA 602/624.1
Analyst: MPB
Analytical Date/Time: 09/16/25 04:50
Container ID: 1254925003-A

Prep Batch: VXX43630
Prep Method: SW5030B
Prep Date/Time: 09/16/25 04:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **POA MS4 Outfalls 2025**
Lab Sample ID: 1254925004
Lab Project ID: 1254925

Collection Date: 09/12/25 08:30
Received Date: 09/12/25 16:47
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.400	U	0.400	0.120	ug/L	1		09/16/25 02:46
Ethylbenzene	1.00	U	1.00	0.310	ug/L	1		09/16/25 02:46
o-Xylene	1.00	U	1.00	0.310	ug/L	1		09/16/25 02:46
P & M -Xylene	2.00	U	2.00	0.620	ug/L	1		09/16/25 02:46
Toluene	1.00	U	1.00	0.310	ug/L	1		09/16/25 02:46
Surrogates								
1,2-Dichloroethane-D4 (surr)	108		81-118		%	1		09/16/25 02:46
4-Bromofluorobenzene (surr)	94.5		85-114		%	1		09/16/25 02:46
Toluene-d8 (surr)	100		89-112		%	1		09/16/25 02:46

Batch Information

Analytical Batch: VMS24824
Analytical Method: EPA 602/624.1
Analyst: MPB
Analytical Date/Time: 09/16/25 02:46
Container ID: 1254925004-A

Prep Batch: VXX43630
Prep Method: SW5030B
Prep Date/Time: 09/16/25 02:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/02/2025 11:11:10AM

Method Blank

Blank ID: MB for HBN 1918547 [BOD/8083]
Blank Lab ID: 1845195

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1254925001, 1254925002

Results by **SM21 5210B**

Parameter	Results	LOQ/CL	DL	LOD	Units
Biochemical Oxygen Demand	2.00U	2.00	2.00	2.00	mg/L

Batch Information

Analytical Batch: BOD8083
Analytical Method: SM21 5210B
Instrument:
Analyst: M.A
Analytical Date/Time: 9/12/2025 1:02:00PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1254925 [BOD8083]
Blank Spike Lab ID: 1845196
Date Analyzed: 09/12/2025 13:02

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1254925001, 1254925002

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	210	106	(84.6-115.4

Batch Information

Analytical Batch: **BOD8083**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **M.A**

Print Date: 10/02/2025 11:11:18AM

Method Blank

Blank ID: MB for HBN 1919053 [STS/8354]
Blank Lab ID: 1845946

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1254925001, 1254925002

Results by **SM21 2540D**

Parameter	Results	LOQ/CL	DL	LOD	Units
Total Suspended Solids	0.750U	1.00	0.310	0.750	mg/L

Batch Information

Analytical Batch: STS8354
Analytical Method: SM21 2540D
Instrument:
Analyst: DAT
Analytical Date/Time: 9/16/2025 5:39:00PM

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t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Duplicate Sample Summary

Original Sample ID: 1254846001
Duplicate Sample ID: 1845949
QC for Samples:
1254925001, 1254925002

Analysis Date: 09/16/2025 17:39
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

Parameter	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	7.60	7.60	mg/L	0.00	(< 10)

Batch Information

Analytical Batch: STS8354
Analytical Method: SM21 2540D
Instrument:
Analyst: DAT

Print Date: 10/02/2025 11:11:22AM

Duplicate Sample Summary

Original Sample ID: 1254926002
Duplicate Sample ID: 1845950
QC for Samples:
1254925001, 1254925002

Analysis Date: 09/16/2025 17:39
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

Parameter	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	26.0	28.0	mg/L	7.40	(< 10)

Batch Information

Analytical Batch: STS8354
Analytical Method: SM21 2540D
Instrument:
Analyst: DAT

Print Date: 10/02/2025 11:11:22AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1254925 [STS8354]
Blank Spike Lab ID: 1845947
Date Analyzed: 09/16/2025 17:39

Spike Duplicate ID: LCSD for HBN 1254925 [STS8354]
Spike Duplicate Lab ID: 1845948
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1254925001, 1254925002

Results by **SM21 2540D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Suspended Solids	25	27.6	110	25	26.4	106	(75-125)	4.40	(< 10)

Batch Information

Analytical Batch: **STS8354**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **DAT**

Print Date: 10/02/2025 11:11:24AM

Leaching Blank

Blank ID: LB for HBN 1918743 [TCLP/13954
Blank Lab ID: 1845427

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1254925001, 1254925002, 1254925003, 1254925004

Results by **EPA 602/624.1**

Parameter	Results	LOQ/CL	DL	LOD	Units
Benzene	15.0U	20.0	6.00	15.0	ug/L
Surrogates					
1,2-Dichloroethane-D4 (surr)	111	81-118		0	%
4-Bromofluorobenzene (surr)	93.4	85-114		0	%
Toluene-d8 (surr)	100	89-112		0	%

Batch Information

Analytical Batch: VMS24824
Analytical Method: EPA 602/624.1
Instrument: Agilent 7890-75MS
Analyst: MPB
Analytical Date/Time: 9/16/2025 3:02:00AM

Prep Batch: VXX43630
Prep Method: SW5030B
Prep Date/Time: 9/16/2025 2:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Method Blank

Blank ID: MB for HBN 1919035 [VXX/43630]
Blank Lab ID: 1845851

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1254925001, 1254925002, 1254925003, 1254925004

Results by **EPA 602/624.1**

Parameter	Results	LOQ/CL	DL	LOD	Units
Benzene	0.300U	0.400	0.120	0.300	ug/L
Ethylbenzene	0.750U	1.00	0.310	0.750	ug/L
o-Xylene	0.750U	1.00	0.310	0.750	ug/L
P & M -Xylene	1.50U	2.00	0.620	1.50	ug/L
Toluene	0.750U	1.00	0.310	0.750	ug/L
Surrogates					
1,2-Dichloroethane-D4 (surr)	109	81-118		0	%
4-Bromofluorobenzene (surr)	95	85-114		0	%
Toluene-d8 (surr)	100	89-112		0	%

Batch Information

Analytical Batch: VMS24824
Analytical Method: EPA 602/624.1
Instrument: Agilent 7890-75MS
Analyst: MPB
Analytical Date/Time: 9/16/2025 12:12:00AM

Prep Batch: VXX43630
Prep Method: SW5030B
Prep Date/Time: 9/16/2025 12:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1254925 [VXX43630]
Blank Spike Lab ID: 1845852
Date Analyzed: 09/16/2025 00:27

Spike Duplicate ID: LCSD for HBN 1254925 [VXX43630]
Spike Duplicate Lab ID: 1845853
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1254925001, 1254925002, 1254925003, 1254925004

Results by **EPA 602/624.1**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Benzene	30	31.5	105	30	30.7	102	(79-120)	2.60	(< 20)
Ethylbenzene	30	32.9	110	30	32.1	107	(79-121)	2.20	(< 20)
o-Xylene	30	32.0	107	30	31.3	104	(78-122)	2.30	(< 20)
P & M -Xylene	60	63.9	107	60	62.4	104	(80-121)	2.30	(< 20)
Toluene	30	32.5	108	30	31.8	106	(80-121)	2.30	(< 20)
Surrogates									
1,2-Dichloroethane-D4 (surr)	30		101	30		101	(81-118)	0.46	
4-Bromofluorobenzene (surr)	30		95	30		94	(85-114)	1.30	
Toluene-d8 (surr)	30		99	30		99	(89-112)	0.34	

Batch Information

Analytical Batch: **VMS24824**
Analytical Method: **EPA 602/624.1**
Instrument: **Agilent 7890-75MS**
Analyst: **MPB**

Prep Batch: **VXX43630**
Prep Method: **SW5030B**
Prep Date/Time: **09/16/2025 00:00**
Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

Method Blank

Blank ID: MB for HBN 1918988 [WSP/5978]
Blank Lab ID: 1845751

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1254925001, 1254925002

Results by **EPA 410.4**

Parameter	Results	LOQ/CL	DL	LOD	Units
Chemical Oxygen Demand	15.0U	20.0	6.20	15.0	mg/L

Batch Information

Analytical Batch: WSP5978
Analytical Method: EPA 410.4
Instrument: HACH DR2700 Spec.
Analyst: DAT
Analytical Date/Time: 9/15/2025 10:50:00AM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1254925 [WSP5978]
Blank Spike Lab ID: 1845752
Date Analyzed: 09/15/2025 10:50

Spike Duplicate ID: LCSD for HBN 1254925 [WSP5978]
Spike Duplicate Lab ID: 1845753
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1254925001, 1254925002

Results by **EPA 410.4**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Chemical Oxygen Demand	500	500	100	500	500	100	(90-110)	0.05	(< 25)

Batch Information

Analytical Batch: **WSP5978**
Analytical Method: **EPA 410.4**
Instrument: **HACH DR2700 Spec.**
Analyst: **DAT**

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Matrix Spike Summary

Original Sample ID: 1254925001
MS Sample ID: 1845754 MS
MSD Sample ID:

Analysis Date: 09/15/2025 10:50
Analysis Date: 09/15/2025 10:50
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1254925001, 1254925002

Results by **EPA 410.4**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Chemical Oxygen Demand	30.7	500	577	109				90-110		

Batch Information

Analytical Batch: WSP5978
Analytical Method: EPA 410.4
Instrument: HACH DR2700 Spec.
Analyst: DAT
Analytical Date/Time: 9/15/2025 10:50:00AM

Print Date: 10/02/2025 11:11:38AM

Method Blank

Blank ID: MB for HBN 1919432 [XXX/52292]
Blank Lab ID: 1846763

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1254925001, 1254925002, 1254925003

Results by **EPA 625.1M SIM (PAH) LV**

Parameter	Results	LOQ/CL	DL	LOD	Units
Acenaphthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Acenaphthylene	0.0375U	0.0500	0.0150	0.0375	ug/L
Anthracene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo(a)Anthracene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[a]pyrene	0.0150U	0.0200	0.00620	0.0150	ug/L
Benzo[b]Fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[g,h,i]perylene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[k]fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Chrysene	0.0375U	0.0500	0.0150	0.0375	ug/L
Dibenzo[a,h]anthracene	0.0150U	0.0200	0.00620	0.0150	ug/L
Fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Fluorene	0.0375U	0.0500	0.0150	0.0375	ug/L
Indeno[1,2,3-c,d] pyrene	0.0375U	0.0500	0.0150	0.0375	ug/L
Naphthalene	0.0750U	0.100	0.0310	0.0750	ug/L
Phenanthrene	0.0357J	0.100	0.0310	0.0750	ug/L
Pyrene	0.0375U	0.0500	0.0150	0.0375	ug/L
Surrogates					
2-Methylnaphthalene-d10 (surr)	38.4	38-100		0	%
Fluoranthene-d10 (surr)	52.3	30-111		0	%

Batch Information

Analytical Batch: XMS15092
Analytical Method: EPA 625.1M SIM (PAH) LV
Instrument: Agilent 8890 GC/MS SYA
Analyst: M.C
Analytical Date/Time: 9/22/2025 10:31:00AM

Prep Batch: XXX52292
Prep Method: SW3535A
Prep Date/Time: 9/19/2025 3:00:00PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Blank Spike Summary

Blank Spike ID: LCS for HBN 1254925 [XXX52292]
Blank Spike Lab ID: 1846764
Date Analyzed: 09/22/2025 10:47

Spike Duplicate ID: LCSD for HBN 1254925 [XXX52292]
Spike Duplicate Lab ID: 1846765
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1254925001, 1254925002, 1254925003

Results by **EPA 625.1M SIM (PAH) LV**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Acenaphthene	2	1.35	68	2	0.834	42	* (48-114)	47.50	* (< 20)
Acenaphthylene	2	1.37	69	2	0.856	43	(35-121)	46.20	* (< 20)
Anthracene	2	1.56	78	2	0.977	49	* (53-119)	46.10	* (< 20)
Benzo(a)Anthracene	2	1.39	69	2	1.03	51	* (59-120)	29.80	* (< 20)
Benzo[a]pyrene	2	1.38	69	2	1.03	51	* (53-120)	29.80	* (< 20)
Benzo[b]Fluoranthene	2	1.47	73	2	1.07	53	(53-126)	31.50	* (< 20)
Benzo[g,h,i]perylene	2	1.46	73	2	1.05	52	(44-128)	32.60	* (< 20)
Benzo[k]fluoranthene	2	1.44	72	2	1.10	55	(54-125)	26.30	* (< 20)
Chrysene	2	1.49	74	2	1.11	56	* (57-120)	28.90	* (< 20)
Dibenzo[a,h]anthracene	2	1.49	74	2	1.06	53	(44-131)	34.00	* (< 20)
Fluoranthene	2	1.37	68	2	0.977	49	* (58-120)	33.30	* (< 20)
Fluorene	2	1.56	78	2	0.947	47	* (50-118)	48.70	* (< 20)
Indeno[1,2,3-c,d] pyrene	2	1.59	80	2	1.15	58	(48-130)	32.00	* (< 20)
Naphthalene	2	1.10	55	2	0.669	34	* (43-114)	49.10	* (< 20)
Phenanthrene	2	1.56	78	2	0.965	48	* (53-115)	47.40	* (< 20)
Pyrene	2	1.33	67	2	0.934	47	* (53-121)	35.00	* (< 20)
Surrogates									
2-Methylnaphthalene-d10 (surr)	2		65	2		40	(38-100)	47.90	
Fluoranthene-d10 (surr)	2		73	2		52	(30-111)	34.00	

Batch Information

Analytical Batch: **XMS15092**
Analytical Method: **EPA 625.1M SIM (PAH) LV**
Instrument: **Agilent 8890 GC/MS SYA**
Analyst: **M.C**

Prep Batch: **XXX52292**
Prep Method: **SW3535A**
Prep Date/Time: **09/19/2025 15:00**
Spike Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

1254925

SGS North America Inc.
CHAIN OF CUSTODY RECORD

SGS North America Inc.
200 West Potter Drive
Anchorage, AK 99518
engage.sgs.com
www.us.sgs.com

Profile #: 375766 Int.: MM

Instructions: Sections 1 - 5 must be filled out.
Omissions may delay the onset of analysis.

Page ___ of ___

Section 1

CLIENT: MICHAEL BAKER INTERNATIONAL

CONTACT: Patrick Whitesell — PHONE #: 907.602.5352

PROJECT NAME: POA MS4 Outfalls 2025 — Project/Permit Number:

NPDL Number(DOD):

REPORTS TO: — E-MAIL: patrick.whitesell@mbakerintl.com

INVOICE TO: — QUOTE #:

P.O. #:

Section 3

Preservative: HCl | H_2SO_4

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Sample Type: Comp / Grab / MI	Analysis*: TAH 624	TAqH 625 SIM	BOD	COD	TSS	REMARKS/LOC ID
1AH	SDS 1	9/12/25	16:00				3	2	1	1	1	
2AH	SDS 2						3	2	1	1	1	
3AC	SDS 3		8:30 A				3	2				
4AC												

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Comments:

Section 4

DOD Project? YES NO

Data Deliverables Requested

DataView — SEDD — EQUIS

Level 4 — ERPIMS — Other:_____

Turnaround Time Requested

Standard

Rush

Requested Rush Report Date:_____

Section 5

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
	9/12/25	4:47 p	
	9/12/25	1647	

Laboratory Use Only

SGS Sample Receipt (Lab Use Only)

Delivery Method: Client / Commercial

Did each cooler have a corresponding COC? Yes / No

Chain of Custody Seal Condition: INTACT / BROKEN / ABSENT

COC Seal Location(s):

Cooler ID	Temperature (°C)	Therm. ID
1. 1	5-1	DS3
2.		
3.		

If more than three coolers are received, or for documentation of non-compliant coolers, use form FS 0029.

Note: If temp. is outside 0-6 °C and samples were not taken <8 hours ago OR are waste samples, Client or PM should initial here or attach an email change order to proceed with analysis. If ice is present, note on form F102B.

Intials:_____

http://www.sgs.com/terms-and-conditions

SGS

1254925

SAMPLE RECEIPT FORM

Project Manager Completion				
Was all necessary information recorded on the COC upon receipt? (Temperature, COC seals, etc.?)	Yes	No	N/A	
Was temperature between 0-6° C?	Yes	No	N/A	If "No", are the samples either exempt* or sampled <8 hours prior to receipt?
Were all analyses received within holding time*?	Yes	No	N/A	
Was a method specified for each analysis, where applicable? If no, please note correct methods.	Yes	No	N/A	
Are compound lists specified, where applicable? For project specific or special compound lists please note correct analysis code.	Yes	No	N/A	
If rush was requested by the client, was the requested TAT approved?	Yes	No	N/A	If "NO", what is the approved TAT?
If SEDD Deliverables are required, were Location ID's and an NPDL Number provided?	Yes	No	N/A	*If "NO", contact client for information.*
Sample Login Completion				
Do ID's on sample containers match COC?	Yes	No	N/A	
If provided on containers, do dates/times collected match COC?	Yes	No	N/A	Note: If times differ <1 hr., record details below and login per COC.
Were all sample containers received in good condition?	Yes	No	N/A	
Were proper containers (type/mass/volume/preservative) received for all samples? **See form F-083 "Sample Guide"*	Yes	No	N/A	*Note: If 200.8/6020 Total Metals are received unpreserved, preserve, and note HNO3 lot here: If 200.8/6020 Dissolved Metals are received unpreserved, log in for LABFILTER and do not preserve. For all non-metals methods, inform Project Manager.*
Were Trip Blanks (VOC, GRO, Low-Level Hg, etc.) received with samples, where applicable*?	Yes	No	N/A	
Were all VOA vials free of headspace >6mm?	Yes	No	N/A	
Were all soil VOA samples received field extracted with Methanol?	Yes	No	N/A	
Did all soil VOA samples have an accompanying unpreserved container for % solids?	Yes	No	N/A	
If special handling is required, were containers labelled appropriately? e.g. MI/ISM, foreign soils, lab filter, Ref Lab, limited volume	Yes	No	N/A	
For Rush/Short Holding time, was the lab notified?	Yes	No	N/A	
For any question answered "NO", was the Project Manager notified?	Yes	No	N/A	PM Initials:
Was Peer Review of sample numbering/labelling completed?	Yes	No	N/A	Reviewer Initials: MR
Additional Notes/Clarification where Applicable, including resolution of "No" answers when a change order is not attached:				

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1254925001-A	HCL to pH < 2	OK			
1254925001-B	HCL to pH < 2	OK			
1254925001-C	HCL to pH < 2	OK			
1254925001-D	No Preservative Required	OK			
1254925001-E	No Preservative Required	OK			
1254925001-F	No Preservative Required	OK			
1254925001-G	H2SO4 to pH < 2	OK			
1254925001-H	No Preservative Required	OK			
1254925002-A	HCL to pH < 2	OK			
1254925002-B	HCL to pH < 2	OK			
1254925002-C	HCL to pH < 2	OK			
1254925002-D	No Preservative Required	OK			
1254925002-E	No Preservative Required	OK			
1254925002-F	No Preservative Required	OK			
1254925002-G	H2SO4 to pH < 2	OK			
1254925002-H	No Preservative Required	OK			
1254925003-A	HCL to pH < 2	OK			
1254925003-B	HCL to pH < 2	OK			
1254925003-C	HCL to pH < 2	OK			
1254925003-D	No Preservative Required	OK			
1254925003-E	No Preservative Required	OK			
1254925004-A	HCL to pH < 2	OK			
1254925004-B	HCL to pH < 2	OK			
1254925004-C	HCL to pH < 2	OK			

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM - The container was received damaged.
FR - The container was received frozen and not usable for Bacteria or BOD analyses.
IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
QN - Insufficient sample quantity provided.

Appendix C. Review of POA and Leaseholder Best Management Practices

MBAKERINTL.COM
3900 C Street, Suite 900 | Anchorage, AK 99503
Office: 907-273-1600 | mbakerintl.com

Assessment of Controls – Port of Alaska

Area / Concern	Source Controls	Source Reduction & Elimination Measures	BMPs
Roadways	A	A	A
Vehicle Wash Areas	A	A	A
Petroleums, Oils, Lubricants	A	A	A
Paints, Antifreeze, Batteries	A	A	A
Hazardous Chemicals and Wastes	A	A	A
Floatables	A	A	A
Illicit Discharges / Improper Disposal	A	A	A
Spill Prevention and Control	A	A	A
Public Education	I	A	A

'A' = 'Adequate'
'I' = 'Inadequate'
'N/A' = 'Not Applicable'

Assessment of Controls – Matson

Area / Concern	Source Controls	Source Reduction & Elimination Measures	BMPs
Roadways	A	A	A
Vehicle Wash Areas	A	A	A
Petroleums, Oils, Lubricants	A	A	A
Paints, Antifreeze, Batteries	A	A	A
Hazardous Chemicals and Wastes	A	A	A
Floatables	A	A	A
Illicit Discharges / Improper Disposal	A	A	A
Spill Prevention and Control	A	A	A
Public Education	A	A	A

'A' = 'Adequate'
'I' = 'Inadequate'
'N/A' = 'Not Applicable'

Assessment of Controls – Tote Maritime

Area / Concern	Source Controls	Source Reduction & Elimination Measures	BMPs
Roadways	A	A	A
Vehicle Wash Areas	A	A	A
Petroleums, Oils, Lubricants	A	A	A
Paints, Antifreeze, Batteries	A	A	A
Hazardous Chemicals and Wastes	A	A	A
Floatables	A	A	A
Illicit Discharges / Improper Disposal	A	A	A
Spill Prevention and Control	A	A	A
Public Education	A	A	A

'A' = 'Adequate'
'I' = 'Inadequate'
'N/A' = 'Not Applicable'

Assessment of Controls – AFSC/Menzies Aviation

Area / Concern	Source Controls	Source Reduction & Elimination Measures	BMPs
Roadways	A	A	A
Vehicle Wash Areas	N/A	N/A	N/A
Petroleums, Oils, Lubricants	A	A	A
Paints, Antifreeze, Batteries	A	A	A
Hazardous Chemicals and Wastes	A	A	A
Floatables	A	A	A
Illicit Discharges / Improper Disposal	A	A	A
Spill Prevention and Control	A	A	A
Public Education	A	A	A

'A' = 'Adequate'
'I' = 'Inadequate'
'N/A' = 'Not Applicable'

Assessment of Controls – Marathon

Area / Concern	Source Controls	Source Reduction & Elimination Measures	BMPs
Roadways	A	A	A
Vehicle Wash Areas	N/A	N/A	N/A
Petroleums, Oils, Lubricants	A	A	A
Paints, Antifreeze, Batteries	A	A	A
Hazardous Chemicals and Wastes	A	A	A
Floatables	A	A	A
Illicit Discharges / Improper Disposal	A	A	A
Spill Prevention and Control	A	A	A
Public Education	A	A	A

'A' = 'Adequate'
'I' = 'Inadequate'
'N/A' = 'Not Applicable'

Assessment of Controls – ABI/AS&G

Area / Concern	Source Controls	Source Reduction & Elimination Measures	BMPs
Roadways	A	A	A
Vehicle Wash Areas	N/A	N/A	N/A
Petroleums, Oils, Lubricants	A	A	A
Paints, Antifreeze, Batteries	A	A	A
Hazardous Chemicals and Wastes	A	A	A
Floatables	A	A	A
Illicit Discharges / Improper Disposal	A	A	A
Spill Prevention and Control	A	A	A
Public Education	A	A	A

'A' = 'Adequate'
'I' = 'Inadequate'
'N/A' = 'Not Applicable'

Appendix D. 2025 SWPP Team Quarterly Meeting Minutes

3900 C Street, Suite 900 | Anchorage, AK 99503
Office: 907-273-1600 | mbakerintl.com

2000 Anchorage Port Road
Anchorage, Alaska 99501
907-343-6200
PortOfAlaska@Muni.org
PortOfAlaska.com

Subject: POA, MS4 Permit / Port SWPPP Team Q1 Meeting **Time:** 2:30 pm – 3:30 pm

Date: Thursday, February 20, 2025

ATTENDEES

Bill Carlson	POA	~~Ronnie Poole~~	~~POA~~
Ruthanna Carr	POA	~~Theodore Frey~~	~~POA~~
Nick Waldo	ADEC	Serena Lewellyn	Marathon
Laurie Butler	Menzies/AFSC	Ryan Perrault	Marathon
~~Kris Shippen~~	~~ASG/ABI~~	Patrick Whitesell	MBI
Lenny Briese	Tote	Ben Stolpman	Tote
Caitlin Self	Tote	~~Nichole Rehm~~	~~PTS~~
Monique Cortez	Matson	Dustin Richmond	PTS

AGENDA

1. Safety Minute; noise exposure

- The Port is a noisy environment
  - Industrial business park
  - Adjacent to an active USAF runway
- Loud noises
  - Affect concentration
  - Physical/psychological stress
  - Reduced productivity
  - Interferes with concentration and communication
  - Contributes to workplace accidents/injuries (can't hear warnings/signals)
- Long-term exposure to high levels of noise
  - Tinnitus
  - Hearing loss / deafness
  - Depression, social isolation, and dementia
- Seriously – wear the hearing protection if you're working outside at the Port!

2. Introduction & Meeting Goals

1. Familiarize new team members (update table below)
   a. Ben Stolpman, TOTE
   b. Lenny Briese, TOTE
   c. Any new / replacement team members?
2. Identify ongoing and current operations, concerns or constraints on the MS4 permit / compliance process

a. POA
b. Lessees
c. ADEC

3. Discuss any recent issues
    a. Illicit discharges
        i. Summary of spills reported to date:
            1. None – good start to 2025!
        ii. Any other spills/cleanups? Lease lots?
    b. Snow storage and/or winter grit spread/storage issues?
    c. (Issues with BMPs / Construction complications)
        i. Any current construction?
    d. Issues with compliance
    e. Issues noticed during site inspections
        i. Appeared BAU 2/19/25

3. Discussion Topics

1. MS4 Permit
    a. MS4 Renewal process underway
        i. Points of Discussion
            1. Storm drain inlet stenciling/ 'marking'
            2. 'SDS 006 and SDS 009' assignment of responsibility
    b. 2025 IDDE training
        i. POA and leaseholder personnel
        ii. Never too early!
    c. New ADEC MS4 'portfolio manager – Nick Waldo
2. Storm drain system evaluations/upgrades
    a. System 1 – in design
    b. System 2 – in design
    c. System 5 – advertised for proposals
    d. SDS 001/002, construction starting 2025
        i. TOTE/Matson; construction phasing conversations
3. Sand Tent/POA Admin
    a. New sand tent location' lower Tract J, along Roger Graves Rd near Security
        i. Construction 'substantially completed' in 2025/2026
        ii. Roger Graves Rd improvements – suspended indefinitely
4. Individual Lease Lot Systems
    a. Any issues (containment systems, sumps, traps, etc.)?
5. Other projects
    a. Ongoing from 2024
        i. Northern Expansion Stabilization, Phase I
            1. 'In progress' (close out date 2026)
        ii. Matson
            1. Sep; monitoring wells scheduled to be dug
                a. Contaminant source by Admin bldg

b. New for 2025
    i. Tote – 2025 program of works for asphalt repair/replace?
        1. No major projects at present
    ii. Others?
6. Schedule
    a. Inspections
        i. 2025 sampling –
            1. Outfalls 001, 002, 003; early- or mid-May, depending on snowmelt/ precipitation
        ii. Lot inspections – ongoing
        iii. Outfall 003 – TAH analysis (hydrocarbons) above acceptable limits
            1. Both 2024 samples indicated elevated TAH (benzene, xylenes, etc)
            2. Working with ADEC to develop sampling plan to identify likely source(s)
        iv. Outfall 002 – TAH analysis was elevated (sample 2, 2024)
            1. Use 2025 1st iteration to determine 'one-off release' or ongoing issue
    b. Monitoring
        i. Winter shutdown mode
        ii. Maintain systems; no frozen switches/valves
        iii. Don't plow snow over coastal embankment
    c. IDDE Training
        i. Video is available on youtube
        ii. Self-taught is fine, or having a 3rd party (Kristi M from R&M)
            1. Send attendee roster to Pat W
        iii. Ruthanna has materials at POA
        iv. We (Michael Baker International, Pat W) can also provide IDDE training
    d. 2024 Annual Report – submitted earlier this week (February 17, 2025)
    e. 2025 Annual Report – due February 15, 2026
7. Regular / Ongoing Reminders & Activities
    a. if doing any excavation at POA, get a dig permit (Ruthanna C)
        i. Locates to be contracted out, permit still held by POA
        ii. Utility locates take time to process/validate, esp. in winter conditions
    b. 2025 Projects?
        i. POA Microgrid Tract J
        ii. PCT access rd construction – may occur in 2024
    c. POA should identify 'area to store tailings to triage (for POA projects)'
8. Next meeting
    a. May 15, 2025

4. Action Items

Action Item Log

Action	Assigned	Due Date
Complete annual IDDE training	Leaseholders & POA	Dec 31, 2025
Identify discharge issues	Leaseholders & POA	Ongoing
Conduct outfall / wet weather monitoring	POA	May, Oct
Dry weather inspections	PAW	Ongoing

Set up invite for 2026 SWPP quarterly meetings	PAW	Nov 2025
Provide IDDE training materials for reporting	Leaseholders & POA	Jan 15, 2026
Provide list of spills/cleanup activity on lots	Leaseholders & POA	Jan 15, 2026
~~Submit MS4 Permit Renewal Package~~	~~POA~~	~~February 2025~~

5. Roster

With contact details

Name	Org.	Contact #	Email
Bill Carlson	POA	343-6209 (w)	William.Carlson@anchorageak.gov
Ruthanna Carr	POA		Ruthanna.carr@anchorageak.gov
Ronnie Poole	POA	343-6202 (w) / 802-8289 (m)	Ronnie.poole@anchorageak.gov
Theodore Frey	POA	(907) 230-2813 (m)	Theodore.frey@anchorageak.gov
Jim Rypkema	ADEC		James.rypkema@alaska.gov
Laurie Butler	AFSC (Menzies)	(907) 231-4043 (m)	Laurie.butler@menziesaviation.com
Kris Shippen	ASG/ ABI		Kris.shippen@anchsand.com
Scott DeWandel	ASG/ ABI		Scott.dewandel@anchsand.com
Billy Godwin	Tote		bgodwin@totemaritime.com
Mike Thrasher	Tote		mthrasher@totemaritime.com
Jessica Warner	Tote		jwarner@totemaritime.com
Monique Cortez	Matson	263-5045 (w)/ 223-6286 (m)	mcortez@matson.com
Serena Lewellyn	Marathon	322-5168 (m)	slewellyn@marathonpetroleum.com
Ryan Perrault	Marathon		rjperrault@marathonpetroleum.com
Patrick Whitesell	MBI	273-1603 (w)/ 602-5352 (m)	Patrick.whitesell@mbakerintl.com
RaeAnne Hebnes, P.E.	MBI	273-1618 (w) /	rhebnes@mbakerintl.com
Nichole Rehm	PTS	360-7835 (m)	nicholerehm@ptsincalaska.com
Dustin Richmond	PTS		dustinrichmond@ptsincalaska.com

2000 Anchorage Port Road
Anchorage, Alaska 99501
907-343-6200
PortOfAlaska@Muni.org
PortOfAlaska.com

Subject: POA, MS4 Permit / Port SWPPP Team Q2 Meeting **Time:** 2:30 pm – 3:30 pm

Date: Thursday, May 15, 2025

ATTENDEES

~~Bill Carlson~~	~~POA~~	Ronnie Poole	POA
(tbd)	POA	Theodore Frey	POA
Nick Waldo	ADEC	Serena Lewellyn	Marathon
~~Laurie Butler~~	~~Menzies/AFSC~~	~~Pat Hallett~~	Marathon
~~Kris Shippen~~	~~ASG/ABI~~	Patrick Whitesell	MBI
~~Lenny Briese~~	~~Tote~~	Ben Stolpman	Tote
Billy Godwin	Tote	Nichole Rehm	PTS
~~Monique Cortez~~	~~Matson~~	Dustin Richmond	PTS

AGENDA

1. Safety Minute; summertime driving

- Seward Highway – one of the last remaining Safety Corridors in AK
- Combination of through-traffic (Kenai Peninsula, Whittier Tunnel, etc) and in-corridor users
  - Big differential in driver speed & behavior
- No passing lanes from Potter (MP 118) past Bird (MP 99)
- Difference between 50 mph (grrr!) and 60 mph (woo!)…4 minutes
- ***Drive safely, leave early, give time and arrive alive***

2. Introduction & Meeting Goals

1. Familiarize new team members (update table below)
   a. Any new / replacement team members?
      i. Nick Waldo, ADEC
2. Identify ongoing and current operations, concerns or constraints on the MS4 permit / compliance process
   a. POA
   b. Lessees
   c. ADEC
3. Discuss any recent issues
   a. Illicit discharges
      i. Summary of spills reported to date:
         1. Sheen on water (reported to ADEC), March 24, 2025
         2. *April 9; demo project on old Admin bldg. – old vault with product in it, <2 bbl diesel; ADEC notified, form completed, case closed (nothing in water)*

ii. Any other spills/cleanups? Lease lots?

b. Winter grit cleanup/storage

c. Issues with BMPs / Construction complications

i. Any current / immediate construction?

d. Issues with compliance

e. Issues noticed during site inspections

3. Discussion Topics

1. MS4 Permit
    a. MS4 Renewal process underway
        i. Points of Discussion
            1. Storm drain inlet stenciling/ 'marking'
            2. 'SDS 006 and SDS 009' assignment of responsibility
                a. MOA and POA in works to resolve this
            3. May use an administrative continuance until SDS 6/9 sorted
    b. 2025 IDDE training
        i. POA and leaseholder personnel
        ii. Never too early!
    c. New ADEC MS4 'portfolio manager' – Nick Waldo
2. Storm drain system evaluations/upgrades
    a. System 1 – design complete – May 2025; bid and construct this summer
    b. System 2 – design complete – May 2025; bid and construct this summer
    c. System 5 – underway
3. Sand Tent/~~POA Admin~~
    a. New sand tent location' lower Tract J, along Roger Graves Rd near Security
        i. Construction 'substantially completed' in 2026
        ~~ii. Roger Graves Rd improvements – suspended indefinitely~~
4. POA Microgrid (Tract J)
5. PCT Access Road construction
    a. Expected this summer (2025)
6. Storm Outfall project
    a. Hydrostatic test on POAVY vault -
7. Individual Lease Lot Systems
    a. Any issues (containment systems, sumps, traps, etc.)?
8. Other projects
    a. Ongoing from 2024
        i. Northern Expansion Stabilization, Phase I
            1. 'In progress' (close out date 2026)
        ii. Matson
            1. Sep; monitoring wells scheduled to be dug
                a. Contaminant source by Admin bldg
    b. New for 2025
        i. Tote – 2025 program of works for small asphalt repair/replace
            1. Working out timeline; mostly small scale

ii. Others?

9. Schedule
    a. Inspections
        i. 2025 sampling –
            1. Outfalls 001, 002, 003; sampled 5/12/2025
            2. Next sample – September or early October depending on precipitation
        ii. Lot inspections – ongoing
        iii. Outfall 003 – TAH analysis (hydrocarbons) above acceptable limits
            1. Both 2024 samples indicated elevated TAH (benzene, xylenes, etc)
            2. Want to get ADEC assistance on a sampling plan to identify likely source(s)
        iv. Outfall 002 – TAH analysis was elevated (sample 2, 2024)
            1. Use 2025 1st iteration to determine 'one-off release' or ongoing issue
    b. Monitoring
        i. Wet-weather and dry-weather screening season, 2025
    c. IDDE Training
        i. Video is available on youtube
        ii. Self-taught is fine, or having a 3rd party (Kristi M from R&M)
            1. Send attendee roster to Pat W
        iii. Ruthanna has materials at POA
        iv. We (Michael Baker International, Pat W) can also provide IDDE training
    d. 2025 Annual Report – due February 15, 2026
10. Regular / Ongoing Reminders & Activities
    a. if doing any excavation at POA, get a dig permit (Ruthanna C) (Theodore Frey)
        i. Locates to be contracted out, permit still held by POA
        ii. Utility locates take time to process/validate, esp. in winter conditions
    b. POA should identify 'area to store tailings to triage (for POA projects)'
11. Next meeting
    a. August 21, 2025, at present; **will have to reschedule (PTO)**

4. Action Items

Action Item Log

Action	Assigned	Due Date
Complete annual IDDE training	Leaseholders & POA	Dec 31, 2025
Identify discharge issues	Leaseholders & POA	Ongoing
Conduct outfall / wet weather monitoring	POA	~~May,~~ Sep/Oct
Dry weather inspections	PAW	Ongoing
Set up invite for 2026 SWPP quarterly meetings	PAW	Nov 2025
Provide IDDE training materials for reporting	Leaseholders & POA	Jan 15, 2026
Provide list of spills/cleanup activity on lots	Leaseholders & POA	Jan 15, 2026
~~Submit MS4 Permit Renewal Package~~	~~POA~~	~~February 2025~~

5. Roster

With contact details

Name	Org.	Contact #	Email
Bill Carlson	POA	343-6209 (w)	William.Carlson@anchorageak.gov
Ruthanna Carr	POA		Ruthanna.carr@anchorageak.gov
Ronnie Poole	POA	343-6202 (w) / 802-8289 (m)	Ronnie.poole@anchorageak.gov
Theodore Frey	POA	(907) 230-2813 (m)	Theodore.frey@anchorageak.gov
Jim Rypkema	ADEC		James.rypkema@alaska.gov
Laurie Butler	AFSC (Menzies)	(907) 231-4043 (m)	Laurie.butler@menziesaviation.com
Kris Shippen	ASG/ ABI		Kris.shippen@anchsand.com
Scott DeWandel	ASG/ ABI		Scott.dewandel@anchsand.com
Billy Godwin	Tote		bgodwin@totemaritime.com
Mike Thrasher	Tote		mthrasher@totemaritime.com
Jessica Warner	Tote		jwarner@totemaritime.com
Monique Cortez	Matson	263-5045 (w)/ 223-6286 (m)	mcortez@matson.com
Serena Lewellyn	Marathon	322-5168 (m)	slewellyn@marathonpetroleum.com
Ryan Perrault	Marathon		rjperrault@marathonpetroleum.com
Patrick Whitesell	MBI	273-1603 (w)/ 602-5352 (m)	Patrick.whitesell@mbakerintl.com
RaeAnne Hebnes, P.E.	MBI	273-1618 (w) /	rhebnes@mbakerintl.com
Nichole Rehm	PTS	360-7835 (m)	nicholerehm@ptsincalaska.com
Dustin Richmond	PTS		dustinrichmond@ptsincalaska.com

2000 Anchorage Port Road
Anchorage, Alaska 99501
907-343-6200
PortOfAlaska@Muni.org
PortOfAlaska.com

Subject: POA, MS4 Permit / Port SWPPP Team Q3 Meeting **Time:** 2:30 pm – 3:30 pm

Date: Thursday, September 4, 2025

ATTENDEES

~~Bill Carlson~~	~~POA~~	~~Ronnie Poole~~	~~POA~~
~~Brandon Dringle~~	~~POA~~	~~Theodore Frey~~	~~POA~~
Nick Waldo	ADEC	Serena Lewellyn	Marathon
~~Laurie Butler~~	~~Menzies/AFSC~~	Daniel Robinson	Marathon
~~Kris Shippen~~	~~ASG/ABI~~	~~Pat Hallett~~	~~Marathon~~
~~Lenny Briese~~	~~Tote~~	~~Ben Stolpman~~	~~Tote~~
Billy Godwin	Tote	~~Nichole Rehm~~	~~PTS~~
Monique Cortez	Matson	Dustin Richmond	PTS
Patrick Whitesell	MBI		

AGENDA

1. **Safety Minute; don't run with scissors**
2. **Introduction & Meeting Goals**
    1. Familiarize new team members (update table below)
        a. Any new / replacement team members?
            i. Daniel Robinson, Marathon
            ii. Add Brandon D (POA) to email invite for meeting
        b. Any departed team members?
    2. Identify ongoing and current operations, concerns or constraints on the MS4 permit / compliance process
        a. POA
        b. Lessees
        c. ADEC
    3. Discuss any recent issues
        a. Illicit discharges
            i. Summary of spills reported to date:
                1. Sheen on water (reported to ADEC), March 24, 2025
                2. April 9; demo project on old Admin bldg. – old vault with product in it, <2 bbl diesel; ADEC notified, form completed, case closed (nothing in water)
                3. June 16, 2025: Coolant spill from United Freight truck, Ocean Dock Rd; <10 gal.
                4. TOTE fuel spill (main yard), cleaned up by Republic Svcs (less than 1 quart but heavy sheen due to rain)

5. TOTE has leaking waste containers in yard, which contain arsenic and lead; TOTE working with ADEC and USCG

ii. Any other spills/cleanups? Lease lots?

1. Multiple 'clean' POAVY discharges since the July 2024 issue

b. Issues with BMPs / Construction complications
   i. Any current / immediate construction?
c. Issues with compliance
d. Issues noticed during site inspections
   i. Dry weather inspection this morning; all clear!

3. Discussion Topics

1. MS4 Permit
   a. MS4 Renewal process underway
      i. Points of Discussion
         1. Storm drain inlet stenciling/ 'marking'
         2. 'SDS 006 and SDS 009' assignment of responsibility
            a. MOA and POA in works to resolve this; **status update (Nichole/Dustin, or Bill)?**
      ii. Using an 'Administrative Continuance' until SDS 6/9 sorted
   b. 2025 IDDE training
      i. POA and leaseholder personnel
      ii. Never too early!
   c. New ADEC MS4 'portfolio manager' – Nick Waldo
2. Storm drain system evaluations/upgrades
   a. System 1 – design complete – May 2025; construct this winter?
   b. System 2 – design complete – May 2025; construct this fall
   c. System 5 – underway
3. Sand Tent
   a. New sand tent location' lower Tract J, along Roger Graves Rd near Security
      i. Construction 'substantially completed' in 2026
4. POA Microgrid (Tract J)
5. PCT Access Road construction
   a. ~~Expected this summer (2025);~~ underway, paving mid-September

~~6. Storm Outfall project~~

~~a. Hydrostatic test on POAVY vault~~

7. Individual Lease Lot Systems
   a. Any issues (containment systems, sumps, traps, etc.)?
8. Other projects
   a. Ongoing from 2024
      i. Northern Expansion Stabilization, Phase I
         1. 'In progress' (close out date 2026)
      ii. Matson
         1. Sep; monitoring wells scheduled to be dug
            a. Contaminant source by Admin bldg

b. New for 2025
    i. Tote – 2025 program of works for small asphalt repair/replace
        1. Working out timeline; mostly small scale
        2. Normal yearly R/R
    ii. Others?

9. Schedule
    a. Inspections
        i. 2025 sampling –
            1. Outfalls 001, 002, 003; sampled 5/12/2025
            2. Next sample – September or early October depending on precipitation
        ii. Lot inspections – ongoing
        iii. Outfall 003 – TAH analysis (hydrocarbons) above acceptable limits
            1. Both 2024 samples indicated elevated TAH (benzene, xylenes, etc)
            2. May 2025 – 'Non-Detect' for TAqH, acceptable limits for TAH (mostly xylenes); will discuss next steps with ADEC following 2025 v2 sampling
    b. Monitoring
        i. Wet-weather and dry-weather screening season, 2025
            1. Thus far, all looks fine
            2. Dry weather screenings; lease lots generally tidy, outfalls appear to be discharging Cook Inlet tidewater
    c. IDDE Training
        i. Video is available on youtube
        ii. Self-taught is fine, or having a 3rd party (Kristi M from R&M)
            1. Send attendee roster to Pat W
        iii. Brandon D has materials at POA
        iv. We (Michael Baker International, Pat W) can also provide IDDE training
    d. 2025 Annual Report – due February 15, 2026
10. Regular / Ongoing Reminders & Activities
    a. if doing any excavation at POA, get a dig permit (Brandon D) (Theodore Frey)
        i. Locates to be contracted out, permit still held by POA
        ii. Utility locates take time to process/validate, esp. in winter conditions
    b. POA should identify 'area to store tailings to triage (for POA projects)'
11. Next meeting
    a. November 20, 2025

4. Action Items

Action Item Log

Action	Assigned	Due Date
Complete annual IDDE training	Leaseholders & POA	Dec 31, 2025
Identify discharge issues	Leaseholders & POA	Ongoing
Conduct outfall / wet weather monitoring	POA	~~May,~~ Sep/Oct
Dry weather inspections	PAW	Ongoing
Set up invite for 2026 SWPP quarterly meetings	PAW	Nov 2025
Provide IDDE training materials for reporting	Leaseholders & POA	Jan 15, 2026
Provide list of spills/cleanup activity on lots	Leaseholders & POA	Jan 15, 2026

~~Submit MS4 Permit Renewal Package~~	~~POA~~	~~February 2025~~

5. Roster

With contact details

Name	Org.	Contact #	Email
Bill Carlson	POA	343-6209 (w)	William.Carlson@anchorageak.gov
Ruthanna Carr	POA		Ruthanna.carr@anchorageak.gov
Ronnie Poole	POA	343-6202 (w) / 802-8289 (m)	Ronnie.poole@anchorageak.gov
Theodore Frey	POA	(907) 230-2813 (m)	Theodore.frey@anchorageak.gov
Jim Rypkema	ADEC		James.rypkema@alaska.gov
Laurie Butler	AFSC (Menzies)	(907) 231-4043 (m)	Laurie.butler@menziesaviation.com
Kris Shippen	ASG/ ABI		Kris.shippen@anchsand.com
Scott DeWandel	ASG/ ABI		Scott.dewandel@anchsand.com
Billy Godwin	Tote		bgodwin@totemaritime.com
Mike Thrasher	Tote		mthrasher@totemaritime.com
Jessica Warner	Tote		jwarner@totemaritime.com
Monique Cortez	Matson	263-5045 (w)/ 223-6286 (m)	mcortez@matson.com
Serena Lewellyn	Marathon	322-5168 (m)	slewellyn@marathonpetroleum.com
Ryan Perrault	Marathon		rjperrault@marathonpetroleum.com
Patrick Whitesell	MBI	273-1603 (w)/ 602-5352 (m)	Patrick.whitesell@mbakerintl.com
RaeAnne Hebnes, P.E.	MBI	273-1618 (w) /	rhebnes@mbakerintl.com
Nichole Rehm	PTS	360-7835 (m)	nicholerehm@ptsincalaska.com
Dustin Richmond	PTS		dustinrichmond@ptsincalaska.com

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PortOfAlaska.com

Subject: POA, MS4 Permit / Port SWPPP Team Q4 Meeting **Time:** 10:00 am – 11:00 am

Date: Thursday, November 20, 2025

ATTENDEES

Bill Carlson	POA	~~Ronnie Poole~~	~~POA~~
~~Brandon Dringle~~	~~POA~~	~~Theodore Frey~~	~~POA~~
~~Nick Waldo~~	~~ADEC~~	Serena Lewellyn	Marathon
Laurie Butler	Menzies/AFSC	~~Daniel Robinson~~	~~Marathon~~
~~Kris Shippen~~	~~ASG/ABI~~	~~Pat Hallett~~	~~Marathon~~
~~Lenny Briese~~	~~Tote~~	Ben Stolpman	Tote
Billy Godwin	Tote	Nichole Rehm	PTS
~~Monique Cortez~~	~~Matson~~	Dustin Richmond	PTS
Jeff Kusz	Matson	Patrick Whitesell	MBI

AGENDA

1. **Safety Minute; Pedestrian-aware driving**
2. **Introduction & Meeting Goals**
    1. Familiarize new team members
        a. Any new / replacement team members?
            i. Jeff Kusz, Matson
            ii. Others?
        b. Any departed team members?
            i. None indicated
    2. Identify ongoing and current operations, concerns or constraints on the MS4 permit / compliance process
        a. POA
        b. Lessees
        c. ADEC
    3. Discuss any recent issues
        a. Illicit discharges
            i. Summary of spills reported to date:
                1. Sheen on water, March 24, 2025
                2. April 9; demo project on old Admin bldg. – old vault with product in it, <2 bbl diesel; ADEC notified, form completed, case closed (nothing in water)
                3. June 16, 2025: Coolant spill from United Freight truck, Ocean Dock Rd; <10 gal.

4. TOTE fuel spill (main yard), cleaned up by Republic Svcs (less than 1 quart but heavy sheen due to rain)
5. TOTE has leaking waste containers in yard, which contain arsenic and lead; TOTE working with ADEC and USCG; cleanup achieved and problem resolved (EPA notified, ADEC released water for disposal at appropriate venue)

ii. New MSGP Permit Guidelines out (ADEC)

iii. Any other spills/cleanups? Lease lots?

1. Multiple 'clean' POAVY discharges since the July 2024 issue
2. Recent release (Sep-Oct) okay (Ted)? If so, will remove this

b. Issues with BMPs / Construction complications
   i. Any current / immediate construction?
c. Issues with compliance
d. Issues noticed during site inspections
   i. Dry weather inspection; all clear!

3. Discussion Topics

1. MS4 Permit
   a. MS4 Renewal process underway
      i. Points of Discussion
         1. Storm drain inlet stenciling/'marking'
         2. 'SDS 006 and SDS 009' assignment of responsibility
            a. MOA and POA in works to resolve this; **status update**
      ii. Using an 'Administrative Continuance' until SDS 6/9 sorted
   b. 2025 IDDE training
      i. POA and leaseholder personnel
      ii. Never too early!
2. Storm drain system construction
   a. System 1 – awaiting bid approval; construction Spring 2026
   b. System 2 – awaiting bid approval; construction Spring 2026
   c. System 5 – currently in design stage; late 2026-2027 est. construction
3. Sand Tent
   a. New sand tent location' lower Tract J, along Roger Graves Rd near Security
      i. Construction 'substantially completed' in 2026
4. POA Microgrid (Tract J); may move to very southern end of N Expansion
5. PCT Access Road construction
   a. Work completed in November
6. Individual Lease Lot Systems
   a. Any issues (containment systems, sumps, traps, etc.)?
7. Other projects
   a. Ongoing from 2024
      i. Northern Expansion Stabilization, Phase I
         1. Substantially complete (close out date 2026)
      ii. Matson

1. Sep; monitoring wells scheduled to be dug (done)
    a. Contaminant source by Admin bldg

b. Late 2025
    i. Tote – 2025 program of works for small asphalt repair/replace
        1. Working out timeline; mostly small scale
        2. Normal yearly R/R
    ii. Others?
c. 2026 planned projects

8. Schedule
    a. Inspections
        i. 2025 sampling – COMPLETE
            1. Outfalls 001, 002, 003; sampled 5/12/2025, then again on 9/12/2025
            2. Next sample – late May 2026, depending on precipitation
        ii. Lot inspections – ongoing
        iii. Outfall 003 – TAH analysis (hydrocarbons) above acceptable limits
            1. Both 2024 samples indicated elevated TAH (benzene, xylenes, etc)
            2. May 2025 – ***'Non-Detect' for TAqH, acceptable limits for TAH*** (mostly xylenes)
            3. Sep 2025 – Mostly 'Non-Detect' (benzene and naphthalene), and once again all ***within acceptable limits***
            4. Will discuss next steps with ADEC
    b. Monitoring
        i. Wet-weather and dry-weather screening season - FINISHED
            1. Thus far, all looks fine
        ii. Winter shut-down mode
    c. IDDE Training
        i. Video is available on youtube
        ii. Self-taught is fine, or having a 3rd party (Kristi M from R&M)
            1. Send attendee roster to Pat W
        iii. Brandon D has materials at POA
        iv. We (Michael Baker International, Pat W) can also provide IDDE training
    d. 2025 Annual Report – due February 2026
9. Regular / Ongoing Reminders & Activities
    a. Excavation at POA requires a dig permit (Brandon D) (Theodore Frey)
        i. Locates to be contracted out, permit still held by POA
        ii. Utility locates take time to process/validate, esp. in winter conditions
    b. POA should identify 'area to store tailings to triage (for POA projects)'
        i. Recommend part of Northern Expansion (once construction complete)
10. Next meeting
    a. February 19, 2026

4. Action Items

Action Item Log

Action	Assigned	Due Date
Complete annual IDDE training	Leaseholders & POA	Dec 31, 2025

Identify discharge issues	Leaseholders & POA	Ongoing
Conduct outfall / wet weather monitoring	POA	~~May,~~ Sep/Oct
Dry weather inspections	PAW	Ongoing
Set up invite for 2026 SWPP quarterly meetings	PAW	Nov 2025
Provide IDDE training materials for reporting	Leaseholders & POA	Jan 15, 2026
Provide list of spills/cleanup activity on lots	Leaseholders & POA	Jan 15, 2026
~~Submit MS4 Permit Renewal Package~~	~~POA~~	~~February 2025~~

5. Roster

With contact details

Name	Org.	Contact #	Email
Bill Carlson	POA	343-6209 (w)	William.Carlson@anchorageak.gov
Ruthanna Carr	POA		Ruthanna.carr@anchorageak.gov
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Theodore Frey	POA	(907) 230-2813 (m)	Theodore.frey@anchorageak.gov
Jim Rypkema	ADEC		James.rypkema@alaska.gov
Laurie Butler	AFSC (Menzies)	(907) 231-4043 (m)	Laurie.butler@menziesaviation.com
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Scott DeWandel	ASG/ ABI		Scott.dewandel@anchsand.com
Billy Godwin	Tote		bgodwin@totemaritime.com
Mike Thrasher	Tote		mthrasher@totemaritime.com
Jessica Warner	Tote		jwarner@totemaritime.com
Monique Cortez	Matson	263-5045 (w)/ 223-6286 (m)	mcortez@matson.com
Serena Lewellyn	Marathon	322-5168 (m)	slewellyn@marathonpetroleum.com
Ryan Perrault	Marathon		rjperrault@marathonpetroleum.com
Patrick Whitesell	MBI	273-1603 (w)/ 602-5352 (m)	Patrick.whitesell@mbakerintl.com
RaeAnne Hebnes, P.E.	MBI	273-1618 (w) /	rhebnes@mbakerintl.com
Nichole Rehm	PTS	360-7835 (m)	nicholerehm@ptsincalaska.com
Dustin Richmond	PTS		dustinrichmond@ptsincalaska.com