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2023 Dry Weather Screening Report APDES Permit No. AKS052558

FINAL REPORT

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MUNICIPALITY OF ANCHORAGE

WATERSHED MANAGEMENT SERVICES

Prepared for: Municipality of Anchorage

Project Management and Engineering Department

Watershed Management Services

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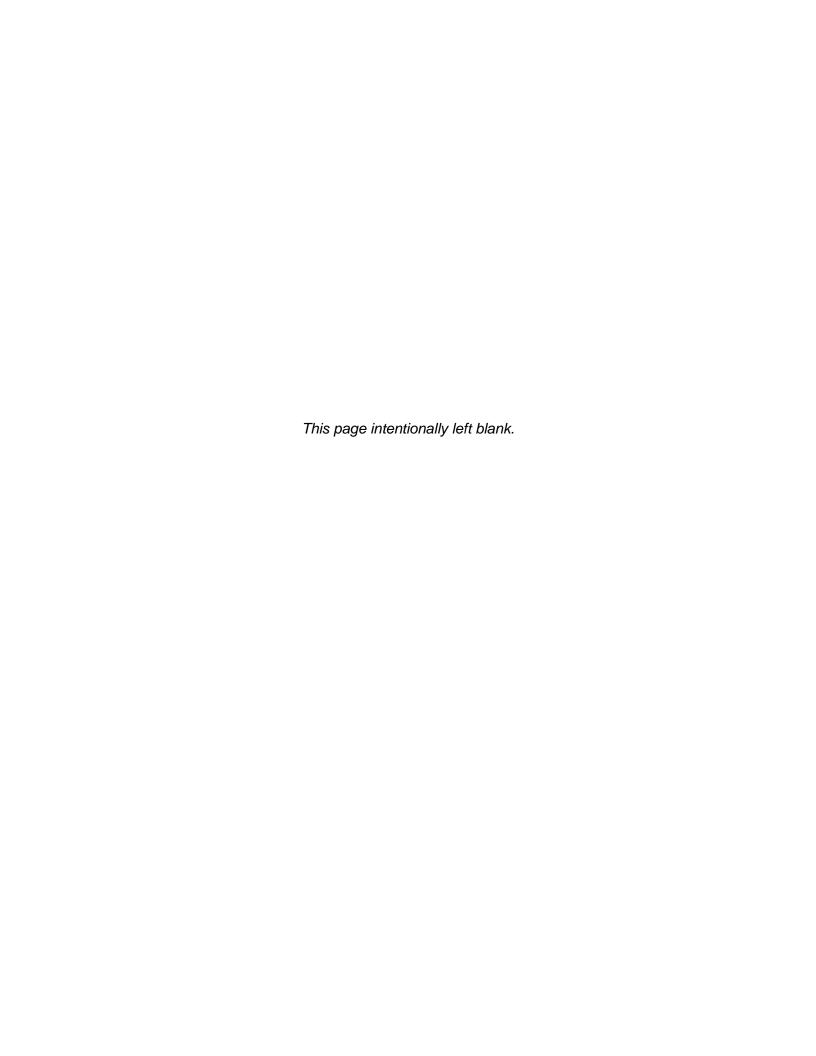


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1.0 Introduction

1.1 Background

The U.S. Environmental Protection Agency (EPA) issued the Municipality of Anchorage (MOA) and the Alaska Department of Transportation and Public Facilities (ADOT&PF) a Municipal Separate Storm Sewer System (MS4) permit under the National Pollutant Discharge Elimination System (NPDES) in 1999. To meet the requirements of the permit, the MOA Watershed Management Services (WMS) initiated a Dry Weather Screening (DWS) program to identify potential illicit discharges to the MS4. This program was conducted during the dry season (typically May through mid-July) each year through 2009.

The EPA re-issued the permit in 2009 prior to the State of Alaska receiving primacy to operate the NPDES program. The re-issued permit became effective February 1, 2010, under the administration of the Alaska Department of Environmental Conservation (ADEC) as an Alaska Pollutant Discharge Elimination System (APDES) MS4 permit. ADEC reissued APDES Permit No. AKS052558, with revisions, on August 1, 2015, and August 1, 2020. The expiration date of the current permit is July 31, 2025.

The APDES MS4 permit continues the requirement of dry weather screening and subsequent follow-up actions to identify illicit discharges and associated pollutants to the MS4. The 2023 program was completed in accordance with the 2021 Monitoring, Evaluation, and Quality Assurance Plan (QAP; MOA 2021a).

1.2 Problem Definition

Section 3.5 of the MS4 permit requires that the MOA implement an illicit discharge management program to reduce the unauthorized and illegal discharge of pollutants to the MS4. An illicit discharge is defined as any discharge to a MS4 that is not entirely composed of stormwater. Illicit discharges, such as those from industrial process wastewater, domestic wastewater, car wash water, and other sources, can inadvertently introduce pollutants both directly and indirectly to the storm sewer system. Flow from storm drain outfalls during dry weather is generally an indicator of illicit discharges to the MS4.

1.3 Screening Program

Dry weather screening is conducted to identify and eliminate illicit discharges to the MS4 within the MOA. To identify potential illicit discharges, approved field screening and laboratory testing methods are used to identify pollutant concentrations of known parameters typically found in the illicit discharges described in Section 1.2. Guidance on illicit discharge screening identifies a list of 15 indicator parameters that can be used to confirm the presence of illicit discharges, noting that generally only three to five of these parameters need to be used to characterize the discharge for subsequent identification and elimination of the discharge (CWP and Pitt 2004).

¹ Excepting any discharges authorized under an NPDES permit and discharges resulting from fire-fighting activities (40 Code of Federal Regulations [CFR] §122.26(b)(2)).



Section 3.5.4 of the MS4 permit establishes minimum requirements for the DWS program. The QAP for the MS4 permit monitoring programs includes the full *DWS Monitoring Plan*. The QAP, including the DWS program methodology, was updated in 2021 to comply with the re-issued permit (MOA 2021a).

The MS4 permit requires the MOA to survey a minimum of 30 outfalls a year for illicit discharges. Surveyed outfalls must be geographically dispersed and represent all major land uses within the municipality. Monitoring of the following seven parameters must be conducted at outfalls where illicit discharges are suspected: pH; total chlorine; detergents; total copper; phenols; fecal coliform bacteria; and turbidity. Benchmark or threshold exceedances are used to trigger MOA investigative action and provide information to support that action.

2.0 Project Summary

2.1 Outfall Evaluation and Prioritization

The QAP requires that outfalls from the MS4 be evaluated and scored for monitoring under the DWS program at the beginning of the 5-year permit cycle. The QAP contains the full methodology for evaluating and prioritizing outfalls (MOA 2021a).

Before beginning field activities, HDR Engineering, Inc. (HDR) evaluated outfalls for suitability for inclusion in the DWS program in a geographic information system (GIS) using the MOA hydrography geodatabase (HGDB; MOA 2021b) and field observations on outfall condition and location made during previous years' monitoring programs. GIS evaluation consisted of reviewing the outfalls and drainageway network within each subbasin of the MS4 as mapped within the HGDB. Outfalls were considered not suitable for monitoring under the DWS program if the subbasin is not drained by closed conveyances that are part of the MS4 infrastructure owned and maintained by MOA and/or ADOT&PF (i.e., the subbasin is drained only by open conveyances such as drainage ditches or surface runoff or the HGDB does not show a mapped network of closed conveyances within the subbasin); if a segment of piped stream is co-routed with the MS4 through the subbasin; or if the outfall is located below a road or other infrastructure. Review of previous years' field observations identified additional outfalls that were excluded from the DWS program for reasons, including access constraints (private property, safety considerations), damage to the outfall that prevents monitoring or sampling, significant backwater flow into the outfall, the outfall is partially or fully submerged within a creek or waterbody, or inability to locate the outfall.

Once outfalls suitable for inclusion in the DWS program were identified, HDR scored and prioritized them for monitoring. Outfalls were given a numerical score based on factors that may contribute to the likelihood of illicit discharges within the outfall's contributing area (i.e., subbasin). The following datasets were used in GIS to score the outfalls according to the procedures in the QAP:

- 2021 HGDB (MOA 2021b)
- MOA zoning designations mapping (MOA 2021c)



- Urban impervious surface mapping from the National Land Cover Database (MRLC 2016)
- Previous threshold exceedances documented under the DWS program (MOA 2016b, 2017, 2018, 2019, 2020, 2021d, 2022)
- Previous reports to 2021 of illicit discharge investigated by WMS (MOA 2021e)²
- Alaska 303(d) Impaired Waters List (ADEC 2020)

HDR evaluated all 935 outfalls mapped in the HGDB for inclusion in the DWS program and determined 331 outfalls were suitable for monitoring under the DWS program and 7 would require field reconnaissance to confirm suitability for inclusion. An additional 14 outfalls that are not mapped in the HGDB but have been identified through GIS evaluation or field reconnaissance are also included. These 352 outfalls were scored and prioritized for the current 5-year permit cycle. The results of the outfall prioritization are included in Appendix A.

For the 2023 program, additional datasets were used in GIS to update the previous prioritization.

- 2023 HGDB (MOA 2023a)
- May 2022 to May 2023 illicit discharge reports investigated by WMS (MOA 2023bb)

2.2 Screening Locations

In 2023, field crews surveyed 30 outfalls and could not access or locate 11 targeted outfalls. Investigated outfalls are listed in Table 1 and shown on the maps included in Appendix B.

² Duplicate records or reports where no enforcement action or violation was substantiated were not included.



Table 1. Outfalls Investigated During 2023 DWS Program

Outfall Code	Latitude	Longitude	Prioritization Score	Location Description	Condition	Water flowing?
Campbell Creek						
60-1	-149.943724	61.123502	4	Accessible from Perenosa Bay Dr.	Fair condition. CMP. Bottom of outfall corroded. Two inches of sediment buildup within pipe.	No
74-2	-149.827785	61.151898	2	Accessible from Delridge Cir.	Could not locate EOP. Seepage found.	No
111-2	-149.881	61.15554	14	Accessible from Foxridge Cir.	Good condition. Smooth walled HDPE pipe. One inch of water in EOP.	Yes
175-1	-149.898	61.10652	10	Accessible from Botanical Heights Cir.	CMP with a grate and collar. Horsetails growing in the collar.	Yes
285-1	-149.828	61.15195	4	Accessible from Lore Rd.	Poor condition. Outfall made of plastic. Orange-brown precipitate present in outfall.	Yes
285-19	-149.822581	61.151868	NA	Along Lore Rd. Could not locate outfall.	-	-
285-15	-149.82614	61.151882	N/A	Accessible from Lore Rd.	HDPE pipe with a collar. Outfall backwatered with green algae present.	Yes
463-1	-149.94	61.12436	14	Accessible from Ensign Dr.	Poor condition. Collar collapsed on itself. Outfall backwatered. Heavy presence of orange precipitate.	Yes
475-1	-149.858	61.14846	13	Accessible from 80 th Ave.	Poor condition. Outfall surrounded by vegetation. EOP embedded within vegetation.	Yes
485-98	-149.857	61.173	13	Accessible from Brayton Dr. and Alpenhorn.	Good condition. CMP. Orange- brown precipitate present in downstream channel.	Yes



Outfall Code	Latitude	Longitude	Prioritization Score	Location Description	Condition	Water flowing?
490-93	-149.941054	61.12288	N/A	Accessible from Sleeping Lady Ln. Fair condition. Outfall backwatered and approximately 90% submerged.		Yes
490-95	-149.941	61.12219	10	Accessible from Marathon Cir.	Good condition. Smooth walled HDPE pipe with a collar.	Yes
529-1	-149.96438	61.137788	4	Accessible from side road adjacent to Dimond Rd.	Fair condition. CMP with a metal collar. Top of outfall damaged.	No
548-1	-149.906594	61.141737	14	Near intersection of Minnesota Dr. and Diamond Blvd.	Could not locate EOP. DS cross culvert seen but not investigated.	No
608-39	-149.74	61.18172	10	Accessible from Scenic View Dr.	Good condition. Smooth walled HDPE pipe.	Yes
675-1	-149.864	61.15366	12	Accessible from E 74 th Ave.	Good condition. CMP with a metal collar. Outfall is slip lined with smooth walled HDPE pipe.	Yes
1001-16	-149.853	61.14748	13	Accessible from Sandlewood Pl.	Fair condition. Plastic pipe. Damage observed on the top of the outfall and uniform holes line the sides.	Yes
1339-38	-149.948	61.15468	10	Along Caravelle Dr. Could not access due to private property.	-	-
1493-1	-149.982	61.13541	13	South of Diamond Blvd. and Sand Lake roundabout.	Could not locate EOP, assumed to be under riprap. Flow seen under riprap.	Yes
1494-1	-149.983	61.15352	10	Located off of Cobbler Dr. and Katahdin Dr.	Could not locate EOP.	-
1495-1	-149.966133	61.137828	7	Accessible from road adjacent to Dimond Blvd. Located underneath a bush.	Fair condition. Smooth walled HDPE pipe.	No
Chester Creek						



Outfall Code	Latitude	Longitude	Prioritization Score	Location Description	Condition	Water flowing?
299-22	-149.874	61.20258	15	Accessible from Eagle St. Good condition. Smooth walled HDPE pipe with a grate and plastic collar.		Yes
484-1	-149.869	61.20158	15	Accessible from residential road off of E 21st Ave.	Good condition. CMP. There is damage to the top of the outfall.	No
547-1	-149.760504	61.205239	7	Accessible from Cheney Lake Park.	Fair condition. CMP with grate and collar. The grate is partially blocked with debris.	No
553-1	-149.744	61.20274	13	Accessible from 20 th Ave. Outfall on eastern side of stream.	Good condition. CMP and accompanied by a rectangular weir.	Yes
554-2	-149.78177	61.193206	16	Accessible from E 30 th Ave.	Constructed of concrete. Outfall partially buried.	Yes
568-1	-149.825	61.21847	11	Accessible off of Mountain View Dr.	Good condition. Smooth walled HDPE pipe. CMP open flume directs flow down the steep embankment.	Yes
574-1	-149.734	61.21253	6	North of intersection of Muldoon Rd. and Creekside Center Dr. Point located in middle of road.	Could not locate. Closest downstream connection is corouted with stream and was not investigated.	-
Fish Creek						
388-197	-149.928	61.17865	21	Accessible from Northwood Dr.	Good condition. Rust in collar.	No



Outfall Code	Latitude	Longitude	Prioritization Score	Location Description	Condition	Water flowing?
388-201	-149.928	61.17831	21	Accessible from W 47 th Ave. in Northwood Park.	Good condition. Iron deposits around outfall. Collar exhibiting rust.	Yes
555-1	-149.965	61.16101	7	Accessible from the end of Delong Landing Cir.	Good condition. HDPE pipe. Vegetation growing around outfall.	No
573-156	-149.842419	61.183626	15	Tried to access from South Salem Dr. and from the southeast. Could not access due to private property or bog.	-	-
Furrow Creek						
5-1	-149.883	61.10603	9	Accessible from pedestrian trail in Johns Park.	Fair condition. CMP with a collar.	Yes
34-26	-149.861	61.1012	14	Accessible from Oceanview Dr.	Good condition. CMP.	No
34-54	-149.860333	61.10008	14	Located off of Oceanview Dr.	Could not locate EOP. Seepage found.	No
407-2	-149.838742	61.1051	10	Located off of Loren Cir. Could not access due to private property.	-	-
Hood Creek						
609-218	-149.959	61.19768	12	Accessible from Clay Products Dr.	HDPE pipe with HDPE collar. Outfall accompanied by a grate.	Yes
Ship Creek						
82-1	-149.868	61.22364	13	Located off of East Whitney Rd. Could not access due to private property.	-	-
245-1	-149.833	61.22775	12	Accessible from the end of Yakutat St.	Good condition. CMP and covered with debris.	Yes
436-1	-149.888	61.22404	13	Accessible form W Whitney Rd off of C St.	Good condition. CMP.	No



Outfall Code	Latitude	Longitude	Prioritization Score	Location Description	Condition	Water flowing?
571-1	-149.909	61.21793	19	Accessible from pedestrian trail from Elderberry Park.	CMP. There are large rocks inside of the pipe along with potential damage to the inside of the outfall.	Yes

Note: Dr. = Drive; Cir. = Circle; Rd. = Road; Ln. = Lane; St. = Street; Ave. = Avenue; Pl. = Place; Blvd. = Boulevard; CMP = corrugated metal pipe; EOP = end of pipe; GW = groundwater; HDPE = High-density polyethylene; DS = downstream



2.3 Screening Parameters

Table 2 lists the screening parameters required by the permit and the sampling methods, reporting ranges, and the program thresholds for each parameter. Appendix E, *DWS Monitoring Plan*, of the QAP (MOA 2021a) provides rationale for screening parameter thresholds. The thresholds for all parameters were maintained from the previous MS4 permit cycle (MOA 2016b). Thresholds are established at concentrations measurably distinct from authorized discharges to detect potential illicit discharges. In a guidance manual, the Center for Watershed Protection and Robert Pitt (2004) recommend benchmarks (thresholds) orders of magnitude higher than ambient stormwater quality to reduce the incidences of false positives. Thresholds in Table 2 were established based on available environmental data and field test kit specifications. Values below the threshold are considered to be within an acceptable range for background concentrations. Values at or above the threshold concentration for a parameter indicate that the parameter may be above background concentrations. Outfalls with results that exceeded the threshold (or are outside the pH range) for one or more of the pollutant indicators are targeted for follow-up action.

Table 2. Sampling Methods, Reporting Ranges, and Thresholds for Measured Parameters

Parameter	Method	Sensitivity	Reporting Range	Threshold
Turbidity	Hach 2100P Turbidimeter, EPA method 180.1 Rev 2.0	0.01 for 0 - 9.99 NTU 0.1 for 1 - 10 NTU 1 for 100 - 1000 NTU	0.1 - 1,000 NTU	≥ 250 NTU
Fecal Coliform	SM 9222D	1 cfu/100 mL	1 cfu/100 mL – too numerous to count	≥ 400 cfu/100 mL
Hach Stormwat	er Test Kit, Model SW-1 #2481300			
рН	Hach Pocket Pro pH Tester, ion selective electrode, EPA method 150.2	0.1 units	0 - 14 STD	≤ 4 or ≥ 9 STD
Total Chlorine	Hach Method 8167 ^a , DPD/Color Disc, SM 4500-Cl G	0.1 mg/L	0.1 – 3.4 mg/L	≥ 1.0 mg/L
Detergents	Hach Model DE-2, Toluidine Blue-O Chloroform Colormetric (Analytical Chemistry #38-791)	0.05 mg/L	0.05 – 1.2 mg/L	≥ 1.0 mg/L
Total Copper	Hach Methods 8506 and 8026 ^a , Bicinchoninate/Color Disc, SM 3500- Cu C or E	0.1 mg/L	0.1 – 4.0 mg/L	≥ 1.0 mg/L
Total Phenols	Hach Method 8047a: 4- Aminoantipyrine/Color Disc, EPA method 420.1	0.1 mg/L	0.1 - 5 mg/L	≥ 0.5 mg/L

Notes: NTU = nephelometric turbidity; SM = Standard Method; cfu = colony forming unit; mL = milliliters; STD = standard units; mg/L = milligrams per liter

2.4 Monitoring Procedures

HDR conducted monitoring in accordance with monitoring procedures and methodology outlined in the QAP.

^a Test kit uses equivalent or adapted method.



2.4.1 Field Preparation

The MS4 permit stipulates that dry weather screening should be conducted between June 1 and August 30 of each year, following at least 48 hours of dry weather after any storm event that created runoff in the MS4.³ Precipitation in the Anchorage area was within the normal range in May 2023. In June 2023, precipitation increased and was above normal while in July 2023 precipitation increased significantly and was higher than normal (Figure 1).

HDR conducted monitoring on four days in June, consulting recent precipitation recorded by the National Weather Service at the Ted Stevens Anchorage International Airport to determine appropriate monitoring timing, when necessary (NWS 2023a). Precipitation for the entire month of June was higher than normal, and continued to increase throughout July. All sampling occurred prior to the drastic increase in precipitation in July. Figure 2 shows the daily precipitation and 48 hour running total precipitation for summer 2023. The dates when sampling occurred are indicated by the black arrows.

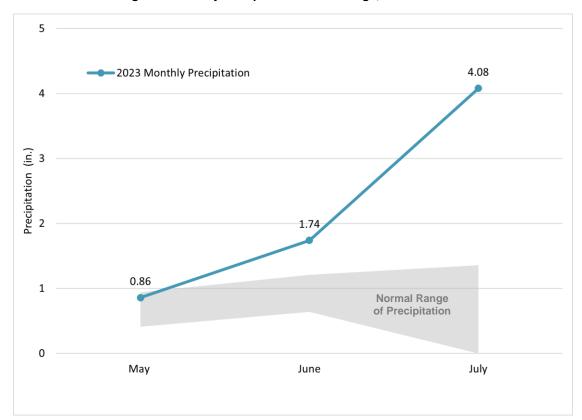


Figure 1. Monthly Precipitation in Anchorage, Summer 2023

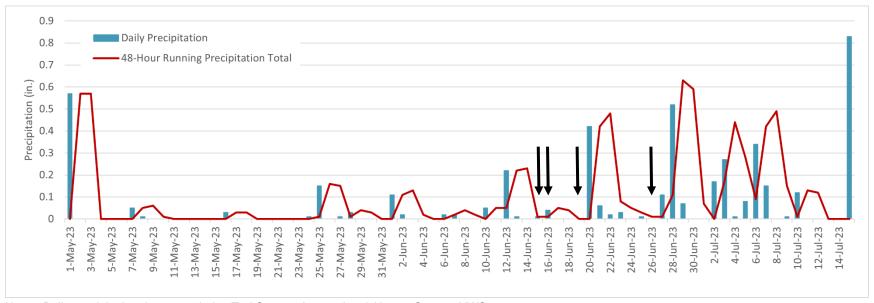
Notes: 2023 monthly precipitation data recorded at Ted Stevens International Airport. Source: NWS 2023b. Normal range of precipitation shown is the range between the 25th and 75th percentiles of monthly precipitation averages recorded at the Ted Stevens International Airport for the 30-year period from 1991 to 2010. Source: NOAA 2021.

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³ Precipitation greater than 0.1 inches typically generates runoff.



Figure 2. Daily Precipitation in Anchorage, Summer 2023



Notes: Daily precipitation data recorded at Ted Stevens International Airport. Source: NWS 2023c. Black arrows indicate monitoring dates.



The field team conducted calibration and equipment blank analyses at the beginning of each day of sampling prior to entering the field. This equipment blank analysis examined each test kit by testing deionized water provided by SGS North America, Inc. (SGS), the laboratory conducting fecal coliform analysis. The calibration and field test kit equipment blank data were recorded on the field data forms and are provided in Appendix C.

Each day before departing for field sampling the field team conducted a safety briefing. The team took the following items into the field:

- List of targeted outfalls
- Global positioning system (GPS)enabled iPad loaded with HGDB and aerial imagery
- Field forms with guidelines
- Water quality analysis protocols (included in the QAP)
- Field sampling supplies
- Personal protective equipment

- Hach Pocket Pro pH tester
- pH test strips
- Hach water quality field test kits
- Laboratory-supplied fecal coliform bottles
- Hach turbidimeter
- Job Hazard Analysis and Travel Safety Forms

2.4.2 Monitoring Activities

Monitoring activities conducted at each outfall consisted of recording visual observations about the condition of the outfall and the discharging water (if flowing), taking photographs of the outfall, measuring or qualitatively describing the flow of the discharging water. Observations were recorded on field data forms.

At outfalls that were flowing during dry weather conditions, field crews considered previous observations of dry weather flow from the outfall, if any had been documented, to determine whether the observed flow was consistent with baseline conditions that may originate from groundwater infiltration. Based on the visual observations and flow analysis, the field crew determined whether the dry weather flow from the outfall was suspected of being an illicit discharge. When an illicit discharge was suspected, field crews collected a sample for laboratory analysis of fecal coliform and two grab samples to measure all other parameters using field test kits or water quality meters. Detailed sampling methodology, including instructions for the field test kits, is included in the QAP (MOA 2021a).

The sample bottle for laboratory analysis of fecal coliform and grab samples for field test kits were filled directly from the outfall flow. Samples were collected using clean sample bottles as required by the QAP. Field test kits were recorded as soon as possible after sample collection, and field measurements were recorded and compared against the thresholds described in Table 2.



The field team conducted replicate sample analyses at a rate of at least 15 percent per day per parameter (minimum of one per day). The field team also collected replicate samples for the laboratory analysis of fecal coliform at a rate of 15 percent per day (minimum of one per day).

Completed data sheets are included as Appendix C, and photographs of sampled outfalls are included as Appendix D.

2.4.3 Follow-Up Activities

The QAP outlines notification procedures and follow-up activities to be performed when a sample exceeds the program threshold for any parameter (MOA 2021a). As an additional measure, HDR provided results of the field measurements to the MOA WMS immediately following every sampling day. SGS provided results of the fecal coliform analysis to HDR as soon as the results were available (typically within 24 hours), and HDR provided these results to the MOA WMS.

2.5 Chain of Custody Records

The field team leader completed a chain-of-custody record, which included each fecal coliform sample collected during a single field day for sample tracking. The original form was delivered with the samples to SGS. Copies of the chain-of-custody records are included in the laboratory analysis reports provided in Appendix E.

2.6 Laboratory Sampling Procedures

The field team collected fecal coliform samples in laboratory-supplied sample bottles, clearly marking each with the project name, sample ID, and sample date and time on the sample bottle labels. Samples were stored in a cooler with gel ice and a temperature blank while in the field. The samples were delivered to SGS within 6 hours to satisfy the short hold time of the fecal coliform samples. Fecal coliform was analyzed using standard method (SM) 9222D.

SGS provided results of the laboratory analysis to HDR via email or telephone immediately after the analysis was complete (typically within 24 hours). The expedited turn-around time allows for expedited follow-up sampling in the event of an exceedance of the fecal coliform threshold. SGS provided a full report of the analysis within a week.

3.0 Results

3.1 Screening Results

Field crews surveyed 30 outfalls in 2023. Flow from four outfalls was tested for indicators of illicit discharge. Both Chester Creek 554-2 and 568-1 were sampled twice. The sample results are provided in Table 3. Complete laboratory analysis reports are provided in Appendix E.



Table 3. Sample Results for Field Parameters and Laboratory Analyses

Watershed	Outfall ID	Date	Flow	рН	Total Chlorine (mg/L)	Detergents (mg/L)	Total Copper (mg/L)	Total Phenols (mg/L)	Turbidity (NTU)	Fecal Coliform (colonies/100mL)
Fish Creek	388-201	6/19/2023	Low	7.0	<0.1	<0.05	<0.1	<0.1	23.4	6.02
	299-28	6/19/2023	Medium	7.2	<0.1	<0.05	<0.1	<0.1	3.2	6.02
	554-2	6/19/2023	Medium	7.0	<0.1	<0.05	<0.1	<0.1	0.51	6.02
Chester Creek	554-2 DUP	6/19/2023	Medium	7.1	<0.1	<0.05	<0.1	<0.1	0.51	6.02
	568-1	6/16/2026	Low	7.1	<0.1	<0.05	<0.1	<0.1	44.1	TNTC
	568-1 DUP	6/19/2023	Low	6.8	<0.1	<0.05	<0.1	<0.1	47.5	58,300

Notes: mg/L = milligram per liter; NTU = nephelometric turbidity; mL = milliliters; R = replicate sample; DUP = Duplicate; TNTC = too numerous to count; Detection limit for fecal coliform is 1.67 col/100mL.



3.2 Quality Assurance and Quality Control

Field crews followed quality assurance and quality control (QA/QC) procedures according to the QAP (MOA 2021a). The procedures included analytical checks (field replicates, equipment blanks), instrument calibration, and procedures to assess data for precision, accuracy, representativeness, comparability, and completeness.

SGS is certified by the EPA and the Alaska Drinking Water Program and has an approved QA/QC program. Analytical methods and testing procedures were in adherence with the QAP (MOA 2021a) and standard methods (APHA 2005).

3.3 Data Validation

SGS conducted verification analyses for laboratory parameters. The data review was focused on criteria for the following QA/QC parameters and their overall effects on the data:

- Data validation
- Sample handling (chain of custody)
- Holding time compliance
- Field replicate comparison

Field crews collected samples from the water flowing from the end of pipe (EOP) at the outfall to avoid mixing with the stream water. Field analyses met the sensitivities prescribed in the QAP (MOA 2021a).

Field crews collected replicate samples at a rate of at least one per day or 15 percent to determine field precision and variability. For the field test kits, the QAP requires that the relative percent difference between primary and replicate samples is calculated. For the fecal coliform samples analyzed at the laboratory, the QAP requires that relative percent difference between the primary and replicate samples be within 60 percent. For turbidity, the QAP requires that the absolute difference between the primary and replicate samples be within 1 NTU. The variance between the primary and replicate samples are presented in Table 4. Additionally, the results of the primary and replicate samples need to be within the precision of the equipment used.

Parame	eter	рН	Total Chlorine (mg/L)	Detergents (mg/L)	Total Copper (mg/L)	Total Phenols (mg/L)	Turbidity (NTU)	Fecal Coliform (colonies/100mL)
Units	S	pH Units	%	%	%	%	NTU	%
QAP star	ndard	± 0.1	30%	30%	30%	30%	± 1 NTU	60%
Watershed	Outfall ID	pH Units	%	%	%	%	NTU	%
Chester Creek	554-2	± 0.1	-	-	-	-	0.25	a
Chester Creek	568-1	± 0.3	-	-	-	-	3.4	0%

Table 4. Comparison of Replicate Samples to Primary Samples

Note: **Bold** values indicate replicate variance that exceeds the QAP standard.

Chester Creek outfall 568-1 slightly exceeded the variance threshold for pH and turbidity. Variability in pH and turbidity measurements can be expected due to the heterogeneous nature of flow from storm sewar outfalls. The primary and replicate samples for turbidity were below the exceedance threshold and these results were not flagged for follow-up action.

None of the other replicate samples exceeded QAP standards for allowable variation from the primary sample. Fecal coliform in either the primary or replicate sample was non-detect for Chester Creek outfall 554-2. Chester Creek outfall 568-1 had detected concentrations.

Sample custody was adequately maintained for the samples. The coolers transporting the fecal coliform samples were chilled with gel ice to maintain temperatures of less than 8 degrees Celsius (°C). The holding times were met for all samples.

4.0 Discussion

Of the outfalls monitored under the 2023 DWS program, field teams observed 21 to be flowing during dry weather conditions. Field crews were either unable to access or locate 5 outfalls and investigated an additional 7 outfalls that were submerged in or backwatered by the receiving water or had standing water within the EOP.

Samples were collected at four outfalls where flow from the MS4 was suspected of being illicit discharge. Field crews documented cloudy or colored water, visible turbidity, surface scum, soapy suds, urban debris, and decaying matter at these outfalls. Field crews also documented outfalls in poor condition or otherwise requiring maintenance during screening activities. These outfalls are noted in Table 1.

4.1 Threshold Exceedances

The result of the fecal coliform analysis of the sample collected on June 16th at Outfall 568-1 was too numerous to count, exceeding the program threshold (400 col/100mL). Outfall 568-1 is located off of Mountain View Dr. SGS transmitted the results of the fecal coliform analysis to

^{&#}x27;-' indicates that both the primary and replicate samples were below the method detection limit.

^a Either the primary or replicate sample was not detected at or above the method detection limit.



HDR on June 16, 2023. Per the QAP, a follow-up sample for fecal coliform analysis was collected from Outfall 568-1 on the next suitable day, June 19th. The results of the laboratory analysis of the replicate follow-up sample were 58300 col/100 mL, exceeding the program threshold by 57900 col/100mL.

4.1.1 Follow Up Investigation

A follow up investigation for Outfall 568-1 was performed by WMS. Their initial findings confirmed the levels of fecal coliform and surfactant at the outfall and they began a search of the drainage area for likely contributors. Their initial recognizance focused on a possible cross-connect at a nearby carwash as a potential source of surfactants and fecal coliform, but the first round of sampling eliminated it as a contributor of either pollutant. The next round of sampling focused on a boat distributor, a likely user of surfactants in surface treatments. Surfactant testing eliminated them as a significant point source (cross-connect), but visual observations suggested their equipment washing practices reached parking lot storm sewers to become a contributor of surfactant to the MS4. The third round of sampling looked for significant sources of fecal coliform in the storm sewer system. Results were erratic, high in one drain sump and then low at the next downstream point, and they failed to point to a cause.

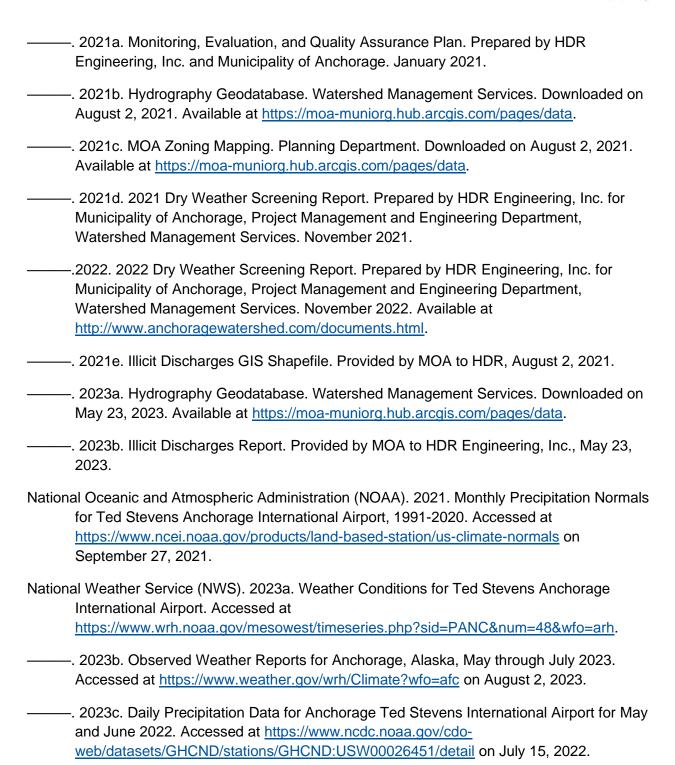
WMS's investigations from July through October did not identify a point source for either fecal coliform or surfactants. WMS concluded they needed to treat the contaminants as independent, unconnected sources. They notified the boat distributor to revise their washing practices to drain to sanitary sewer floor drains, and they placed the drainage area on a follow up program to look for development of a pattern in the fecal contamination levels. Based on feedback from local business managers there is a high likelihood that fecal contamination is the result of homeless activity observed in the area.



5.0 References

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- 2016b. 2016 Dry Weather Screening Report. Prepared by HDR, Alaska Inc. for Municipality of Anchorage, Project Management and Engineering Department, Watershed Management Services. December 2016. Available at http://www.anchoragewatershed.com/documents.html.
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- 2019. 2019 Dry Weather Screening Report. Prepared by HDR, Alaska Inc. for Municipality of Anchorage, Project Management and Engineering Department, Watershed Management Services. November 2019. Available at http://www.anchoragewatershed.com/documents.html.
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Appendix A Outfall Prioritization



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Table A-1. Outfall Prioritization for the 2021-2025 APDES Permit Cycle

Watershed	Outfall ID	Subbasin ID	Total Score
Campbell Creek	1488-1	1007	29
Chester Creek	489-2	523	25
Chester Creek	489-357	523	25
Campbell Creek	651-1	817	24
Fish Creek	1287-994	775	24
Chester Creek	654-1	594	23
Chester Creek	179-1	475	22
Fish Creek	388-197	1178	21
Fish Creek	388-201	1178	21
Fish Creek	682-1	772	21
Chester Creek	295-56	575	20
Campbell Creek	1454-1	1449	19
Campbell Creek	1454-2	1449	19
Ship Creek	<null></null>	1001	19
Ship Creek	1338-1	999	19
Ship Creek	396-1	1001	19
Ship Creek	571-1	999	19
Ship Creek	96-2	998	19
Campbell Creek	105-1	1221	18
Campbell Creek	556-1	830	18
Eagle River	1335-1	1294	18
Fish Creek	7-1	1023	18
Furrow Creek	292-192	675	18
Ship Creek	71-1	979	18
Campbell Creek	579-1	804	17
Eagle River	1383-1	1147	17
Campbell Creek	207-3	805	16
Chester Creek	2-2	130	16
Chester Creek	4-1	1251	16
Chester Creek	464-1	616	16
Chester Creek	554-2	527	16
Rabbit Creek	745-1	701	16
Rabbit Creek	745-86	701	16
Chester Creek	299-20	133	15
Chester Creek	299-22	133	15
Chester Creek	484-1	133	15
Fish Creek	573-156	788	15
Fish Creek	573-48	788	15
Ship Creek	550-2	961	15
Campbell Creek	111-2	835	14
Campbell Creek	17-1	1372	14



Watershed	Outfall ID	Subbasin ID	Total Score
Campbell Creek	463-1	886	14
Campbell Creek	548-1	863	14
Chester Creek	3-1	598	14
Chester Creek	86-1	549	14
Fish Creek	391-1	1031	14
Fish Creek	686-1	1024	14
Fish Creek	686-167	1024	14
Furrow Creek	34-26	916	14
Furrow Creek	34-54	916	14
Campbell Creek	1001-16	1333	13
Campbell Creek	1478-1	1195	13
Campbell Creek	1493-1	1382	13
Campbell Creek	475-1	349	13
Campbell Creek	485-1	828	13
Campbell Creek	485-98	828	13
Campbell Creek	593-1	821	13
Chester Creek	1298-275	489	13
Chester Creek	25-1	492	13
Chester Creek	296-1	495	13
Chester Creek	549-1	555	13
Chester Creek	552-105	619	13
Chester Creek	553-1	513	13
Chester Creek	577-1	515	13
Eagle River	541-1	1295	13
Fish Creek	1278-1	1269	13
Ship Creek	436-1	978	13
Campbell Creek	569-1	811	12
Campbell Creek	675-1	250	12
Chester Creek	103-1	568	12
Chester Creek	30-1	127	12
Hood Creek	609-218	1011	12
Ship Creek	1414-1	976	12
Ship Creek	245-1	989	12
Campbell Creek	100-1	1224	11
Campbell Creek	1479-1	1222	11
Campbell Creek	271-1	1317	11
Campbell Creek	44-1	1194	11
Campbell Creek	468-1	1318	11
Chester Creek	1449-1	1459	11
Chester Creek	568-1	479	11
Chester Creek	884-1	597	11
Fish Creek	1003-1	1044	11



Watershed	Outfall ID	Subbasin ID	Total Score
Campbell Creek	1014-41	1235	10
Campbell Creek	1056-8	1217	10
Campbell Creek	1339-1	826	10
Campbell Creek	1339-38	826	10
Campbell Creek	1438-2	862	10
Campbell Creek	1494-1	1386	10
Campbell Creek	175-1	1375	10
Campbell Creek	18-107	299	10
Campbell Creek	279-1	878	10
Campbell Creek	279-55	878	10
Campbell Creek	383-1	323	10
Campbell Creek	400-1	864	10
Campbell Creek	435-9	1444	10
Campbell Creek	490-1	890	10
Campbell Creek	490-93	890	10
Campbell Creek	490-95	890	10
Campbell Creek	585-1	870	10
Campbell Creek	608-39	779	10
Campbell Creek	656-31	290	10
Chester Creek	188-1	494	10
Chester Creek	318-1	562	10
Chester Creek	347-1	505	10
Chester Creek	482-1	173	10
Chester Creek	645-1	623	10
Chester Creek	678-1	541	10
Eagle River	<null></null>	1439	10
Eagle River	1336-1	1142	10
Eagle River	1375-1	752	10
Eagle River	1417-1	1425	10
Eagle River	1451-1	1439	10
Eagle River	1482-1	1347	10
Eagle River	1483-1	1346	10
Fish Creek	27-1	767	10
Fish Creek	462-1	773	10
Furrow Creek	1343-2	1396	10
Furrow Creek	281-1	177	10
Furrow Creek	306-1	1111	10
Furrow Creek	348-1	1103	10
Furrow Creek	407-1	184	10
Furrow Creek	407-2	177	10
Furrow Creek	407-24	184	10
Ship Creek	119-1	962	10



Watershed	Outfall ID	Subbasin ID	Total Score
Ship Creek	46-1	1437	10
Ship Creek	47-1	972	10
Ship Creek	491-1	963	10
Campbell Creek	1348-1	1196	9
Campbell Creek	1466-1	460	9
Campbell Creek	1466-17	460	9
Campbell Creek	300-1	462	9
Chester Creek	236-1	590	9
Chester Creek	282-1	496	9
Chester Creek	282-3	496	9
Chester Creek	499-1	132	9
Chester Creek	499-17	132	9
Chester Creek	527-1	506	9
Fish Creek	411-8	733	9
Furrow Creek	5-1	1104	9
Ship Creek	81-73	960	9
Campbell Creek	1489-1	1371	8
Campbell Creek	317-1	376	8
Campbell Creek	447-64	322	8
Campbell Creek	62-1	255	8
Campbell Creek	701-4	389	8
Campbell Creek	10-1	799	7
Campbell Creek	<null></null>	1314	7
Campbell Creek	112-1	1202	7
Campbell Creek	113-1	785	7
Campbell Creek	120-13	1040	7
Campbell Creek	120-22	1040	7
Campbell Creek	122-1	884	7
Campbell Creek	1347-1	1314	7
Campbell Creek	1349-1	1223	7
Campbell Creek	1351-1	1384	7
Campbell Creek	1352-1	1385	7
Campbell Creek	1352-14	1385	7
Campbell Creek	1367-1	1369	7
Campbell Creek	1367-26	1369	7
Campbell Creek	1410-1	1456	7
Campbell Creek	1441-1	1441	7
Campbell Creek	1464-1	1313	7
Campbell Creek	1467-1	1442	7
Campbell Creek	1490-1	1378	7
Campbell Creek	1495-1	838	7
Campbell Creek	190-1	288	7



Watershed	Outfall ID	Subbasin ID	Total Score
Campbell Creek	21-1	737	7
Campbell Creek	219-1	887	7
Campbell Creek	220-1	855	7
Campbell Creek	243-24	268	7
Campbell Creek	297-1	854	7
Campbell Creek	305-1	824	7
Campbell Creek	320-5	324	7
Campbell Creek	401-1	876	7
Campbell Creek	417-1	877	7
Campbell Creek	474-1	815	7
Campbell Creek	495-1	853	7
Campbell Creek	496-1	365	7
Campbell Creek	500-1	1367	7
Campbell Creek	500-6	1367	7
Campbell Creek	506-1	881	7
Campbell Creek	546-2	1200	7
Campbell Creek	565-1	1198	7
Campbell Creek	581-1	843	7
Campbell Creek	588-1	259	7
Campbell Creek	602-1	794	7
Campbell Creek	616-1	837	7
Campbell Creek	642-1	866	7
Campbell Creek	673-1	883	7
Campbell Creek	673-16	883	7
Campbell Creek	84-1	896	7
Chester Creek	117-1	564	7
Chester Creek	1267-251	1248	7
Chester Creek	258-1	131	7
Chester Creek	302-2	554	7
Chester Creek	314-23	219	7
Chester Creek	339-1	586	7
Chester Creek	376-1	612	7
Chester Creek	399-1	521	7
Chester Creek	416-1	517	7
Chester Creek	418-1	560	7
Chester Creek	509-12	128	7
Chester Creek	519-1	599	7
Chester Creek	525-2	554	7
Chester Creek	53-1	129	7
Chester Creek	547-1	596	7
Chester Creek	578-1	499	7
Chester Creek	679-21	134	7



Watershed	Outfall ID	Subbasin ID	Total Score
Chester Creek	683-1	546	7
Chester Creek	700-10	584	7
Chester Creek	98-2	221	7
Eagle River	303-1	754	7
Fish Creek	1310-201	1278	7
Fish Creek	1312-19	1280	7
Fish Creek	137-1	1260	7
Fish Creek	228-1	1030	7
Fish Creek	234-1	867	7
Fish Creek	32-1	774	7
Fish Creek	37-1	1020	7
Fish Creek	429-1	761	7
Fish Creek	480-1	1018	7
Fish Creek	555-1	816	7
Fish Creek	584-1	782	7
Fish Creek	595-1	777	7
Fish Creek	595-8	777	7
Fish Creek	661-26	1273	7
Fish Creek	79-353	1267	7
Furrow Creek	1345-1	1102	7
Furrow Creek	216-10	1046	7
Furrow Creek	293-1	673	7
Furrow Creek	332-1	1050	7
Furrow Creek	34-2	915	7
Furrow Creek	395-1	1109	7
Furrow Creek	402-1	1051	7
Furrow Creek	592-1	725	7
Furrow Creek	617-1	905	7
Furrow Creek	634-1	1028	7
Furrow Creek	95-2	915	7
Hood Creek	502-16	1013	7
Ship Creek	1363-1	1335	7
Ship Creek	690-1	956	7
Chester Creek	574-1	490	6
Chester Creek	575-1	490	6
Fish Creek	191-1	783	6
Campbell Creek	<null></null>	1331	5
Campbell Creek	1477-1	1201	5
Campbell Creek	65-2	410	5
Campbell Creek	685-1	875	5
Campbell Creek	685-7	875	5
Campbell Creek	703-1	1331	5



Watershed	Outfall ID	Subbasin ID	Total Score
Chester Creek	163-5	136	5
Chester Creek	244-2	136	5
Chester Creek	319-1	220	5
Chester Creek	321-1	557	5
Chester Creek	361-1	606	5
Fish Creek	1277-59	1279	5
Campbell Creek	<null></null>	1443	4
Campbell Creek	1432-1	1432	4
Campbell Creek	1456-1	1433	4
Campbell Creek	1465-1	1377	4
Campbell Creek	1474-1	1311	4
Campbell Creek	181-1	836	4
Campbell Creek	285-1	1205	4
Campbell Creek	40-4	1310	4
Campbell Creek	405-1	849	4
Campbell Creek	408-1	326	4
Campbell Creek	433-1	844	4
Campbell Creek	433-14	844	4
Campbell Creek	446-1	1206	4
Campbell Creek	461-16	403	4
Campbell Creek	487-1	834	4
Campbell Creek	505-1	897	4
Campbell Creek	529-1	874	4
Campbell Creek	551-1	309	4
Campbell Creek	586-1	277	4
Campbell Creek	598-18	404	4
Campbell Creek	60-1	889	4
Campbell Creek	619-1	888	4
Campbell Creek	626-1	892	4
Campbell Creek	626-5	892	4
Campbell Creek	732-1	894	4
Campbell Creek	99-1	898	4
Chester Creek	115-1	486	4
Chester Creek	1265-40	1246	4
Chester Creek	139-1	565	4
Chester Creek	140-1	565	4
Chester Creek	1462-1	1458	4
Chester Creek	218-1	580	4
Chester Creek	259-1	615	4
Chester Creek	26-14	519	4
Chester Creek	301-1	174	4
Chester Creek	304-1	603	4



Watershed	Outfall ID	Subbasin ID	Total Score
Chester Creek	415-1	528	4
Chester Creek	419-6	510	4
Chester Creek	488-1	508	4
Chester Creek	492-1	545	4
Chester Creek	517-17	225	4
Chester Creek	587-1	168	4
Chester Creek	665-1	488	4
Chester Creek	889-1	617	4
Eagle River	1390-2	1297	4
Eagle River	1391-1	1298	4
Eagle River	1455-1	1287	4
Eagle River	646-71	1292	4
Fire Creek	1392-1	1299	4
Fire Creek	1393-1	1300	4
Fish Creek	1054-1	1190	4
Fish Creek	264-1	798	4
Fish Creek	494-1	762	4
Fish Creek	610-1	739	4
Fish Creek	684-1	759	4
Furrow Creek	1344-8	1393	4
Hood Creek	1264-37	1264	4
Hood Creek	142-1	768	4
Hood Creek	315-2	1014	4
Hood Creek	486-1	765	4
Ship Creek	1431-1	1436	4
Ship Creek	278-1	1250	4
Campbell Creek	1019-2	1352	2
Campbell Creek	155-3	1203	2
Campbell Creek	183-8	736	2
Campbell Creek	290-46	1324	2
Campbell Creek	364-1	296	2
Campbell Creek	427-2	163	2
Campbell Creek	501-4	1326	2
Campbell Creek	612-1	1204	2
Campbell Creek	74-2	1327	2
Chester Creek	125-1	529	2
Chester Creek	378-3	571	2
Chester Creek	387-1	620	2
Chester Creek	542-1	610	2
Chester Creek	580-11	622	2
Chester Creek	624-4	611	2
Hood Creek	249-1	781	2



Watershed	Outfall ID	Subbasin ID	Total Score
Campbell Creek	692-15ª	-	-
Campbell Creek	692-24ª	-	-
Glacier Creek	_b	-	-

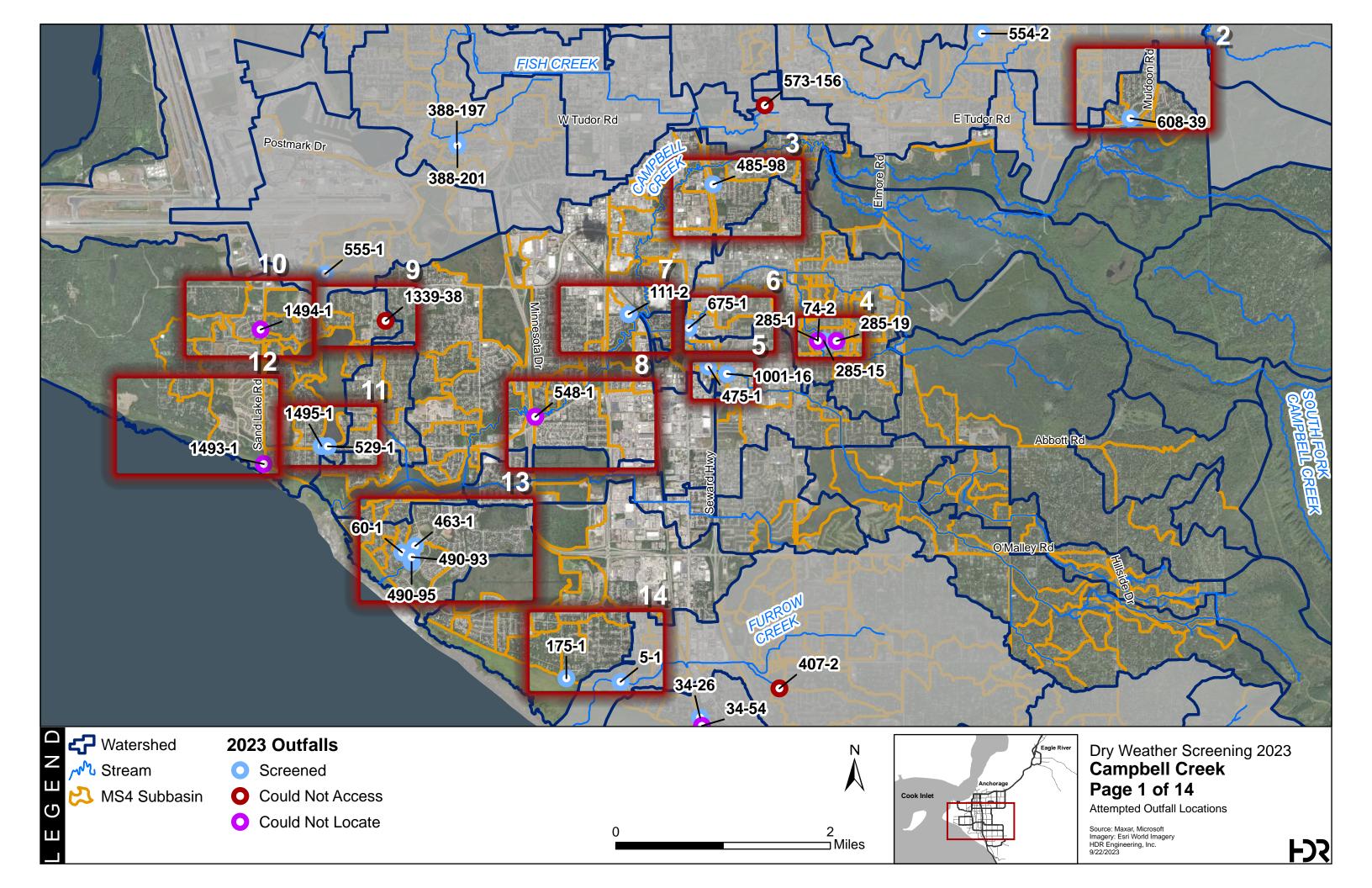
^a Outfalls 692-15 and 692-24 drain to Campbell Creek at E. 68th Ave. between Brayton Dr. and Meadow St. As of May 23, 2022, the HGDB does not have the subbasin that drains to the outfall mapped. The HGDB needs to be updated and the outfalls need to receive a prioritization score.

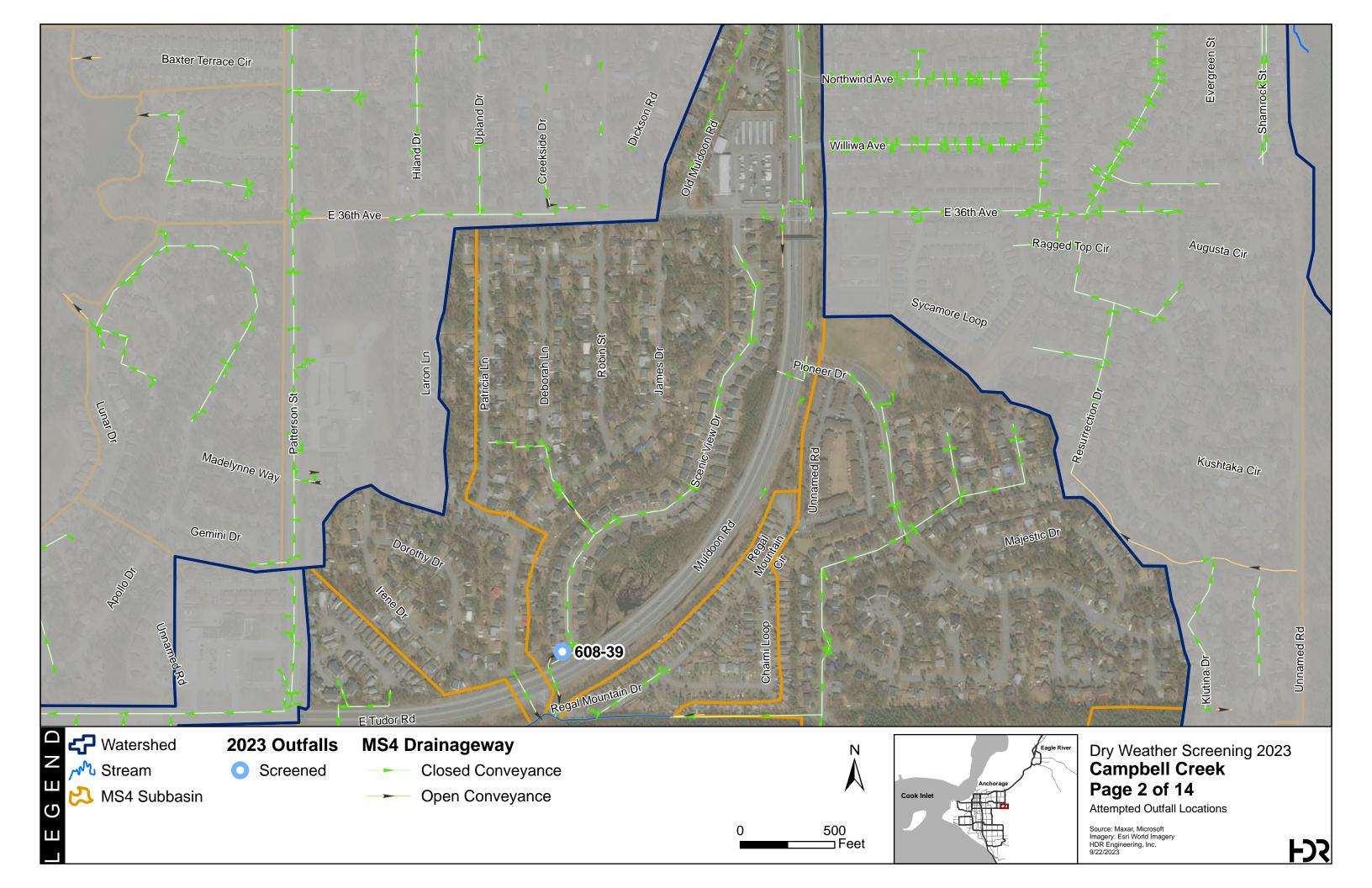
^b An unnumbered outfall drains to Glacier Creek at Girdwood Pl. and Holmgren Pl. This outfall and the connected drainageways were added to the HGDB on August 20, 2020. As of May 23, 2022, a subbasin for this network has not delineated in the HGDB. The HGDB needs to be updated and the outfall needs to receive a prioritization score.

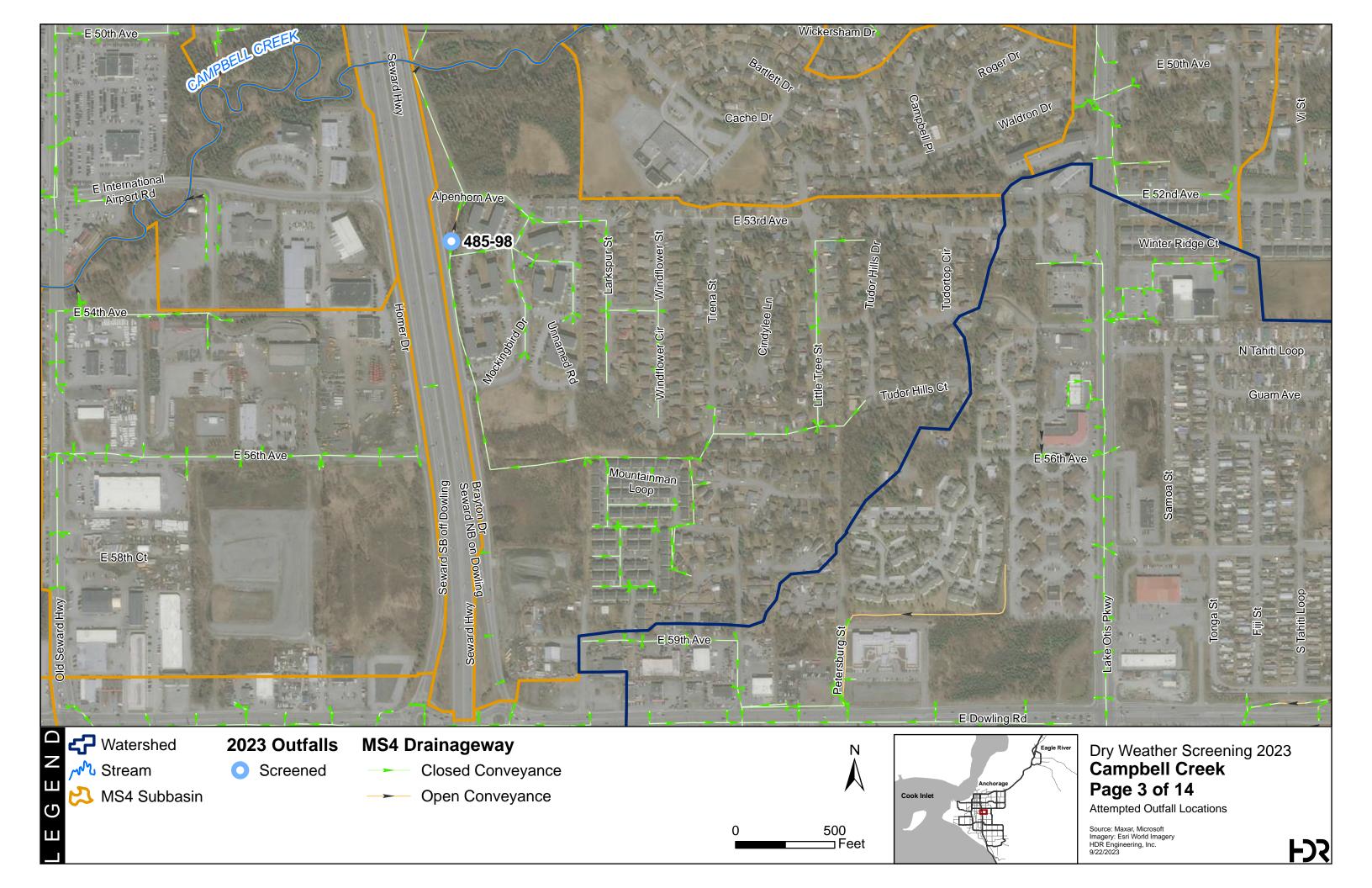
Appendix B Watershed Maps



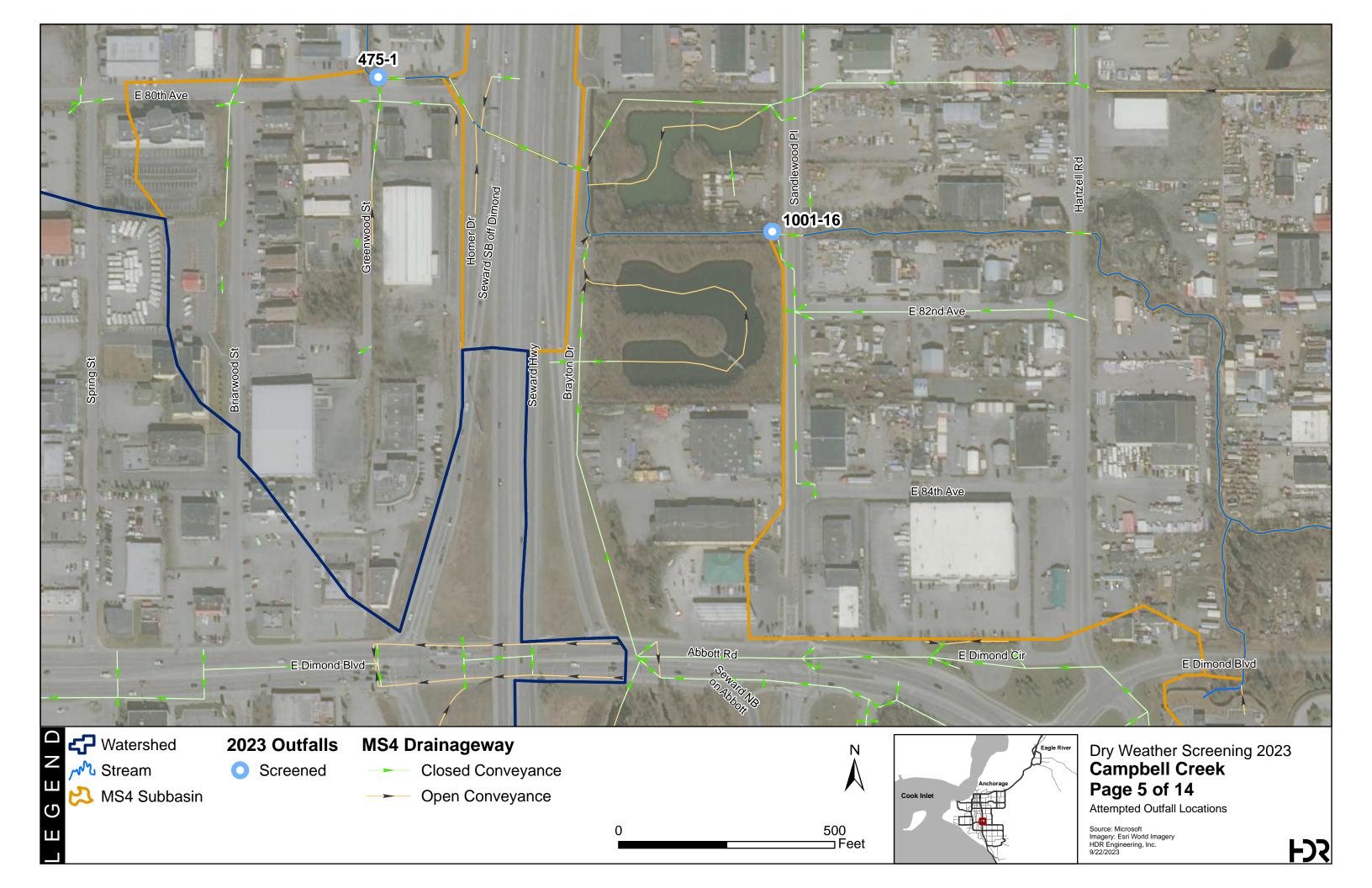
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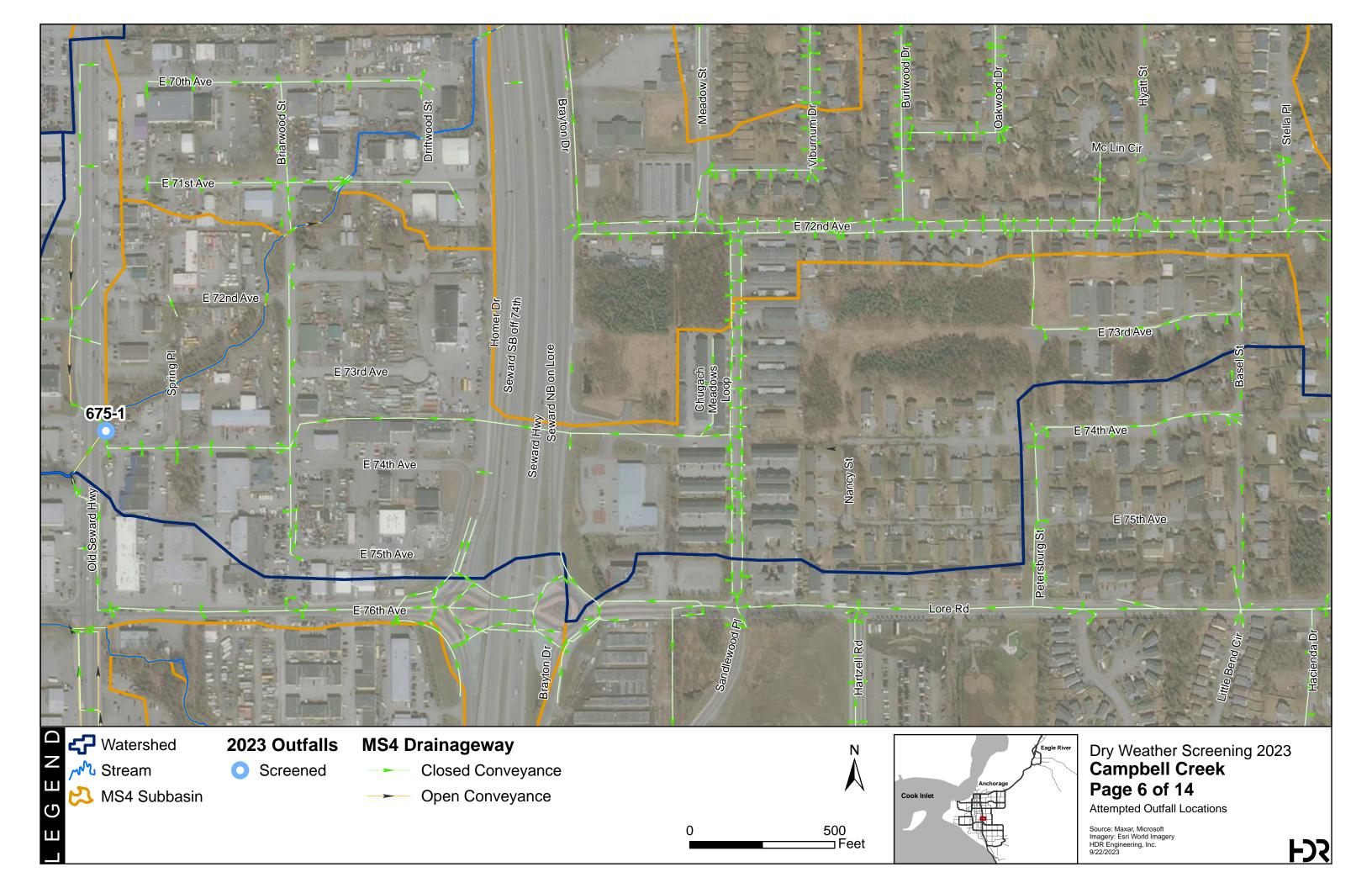


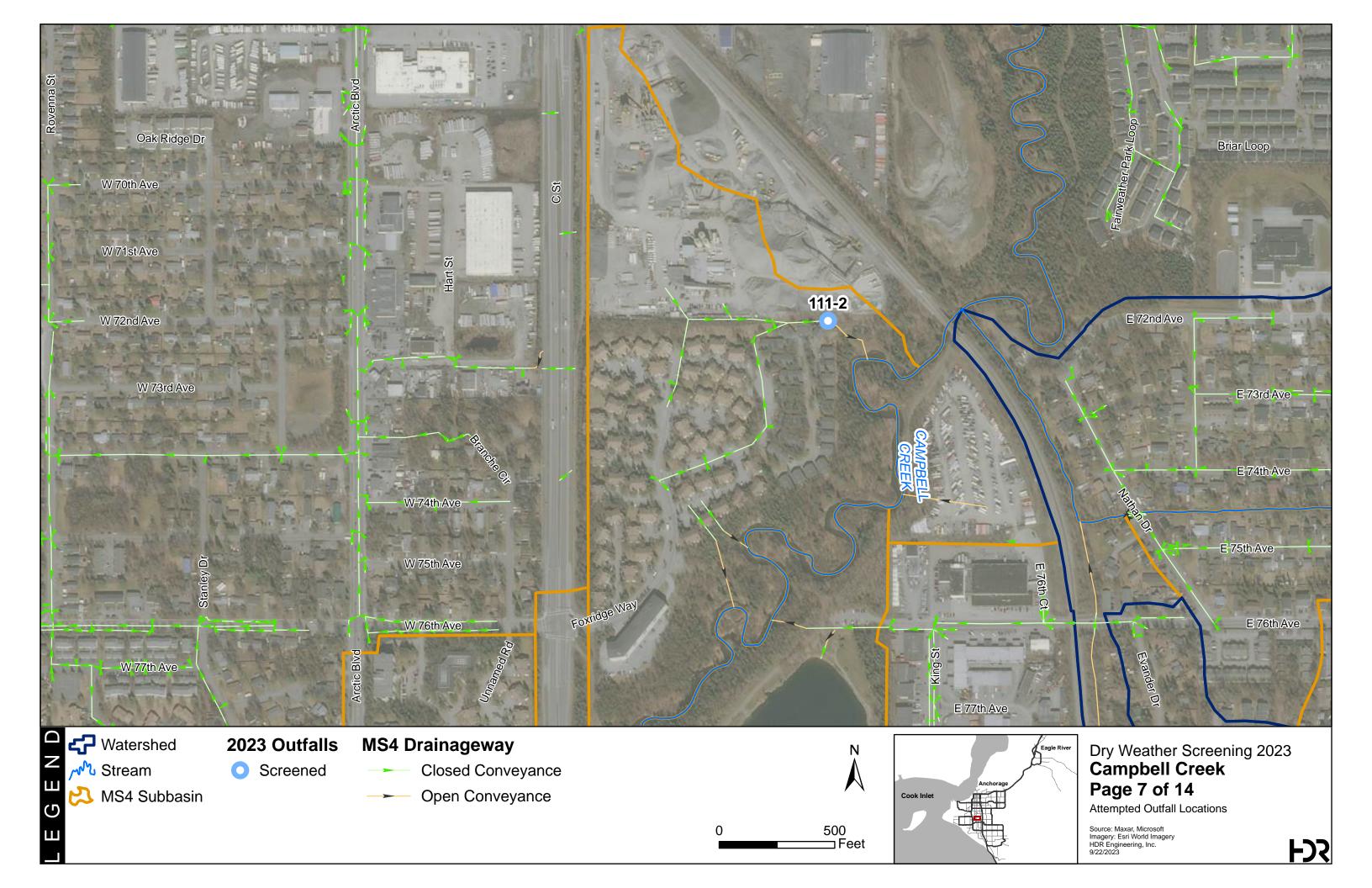


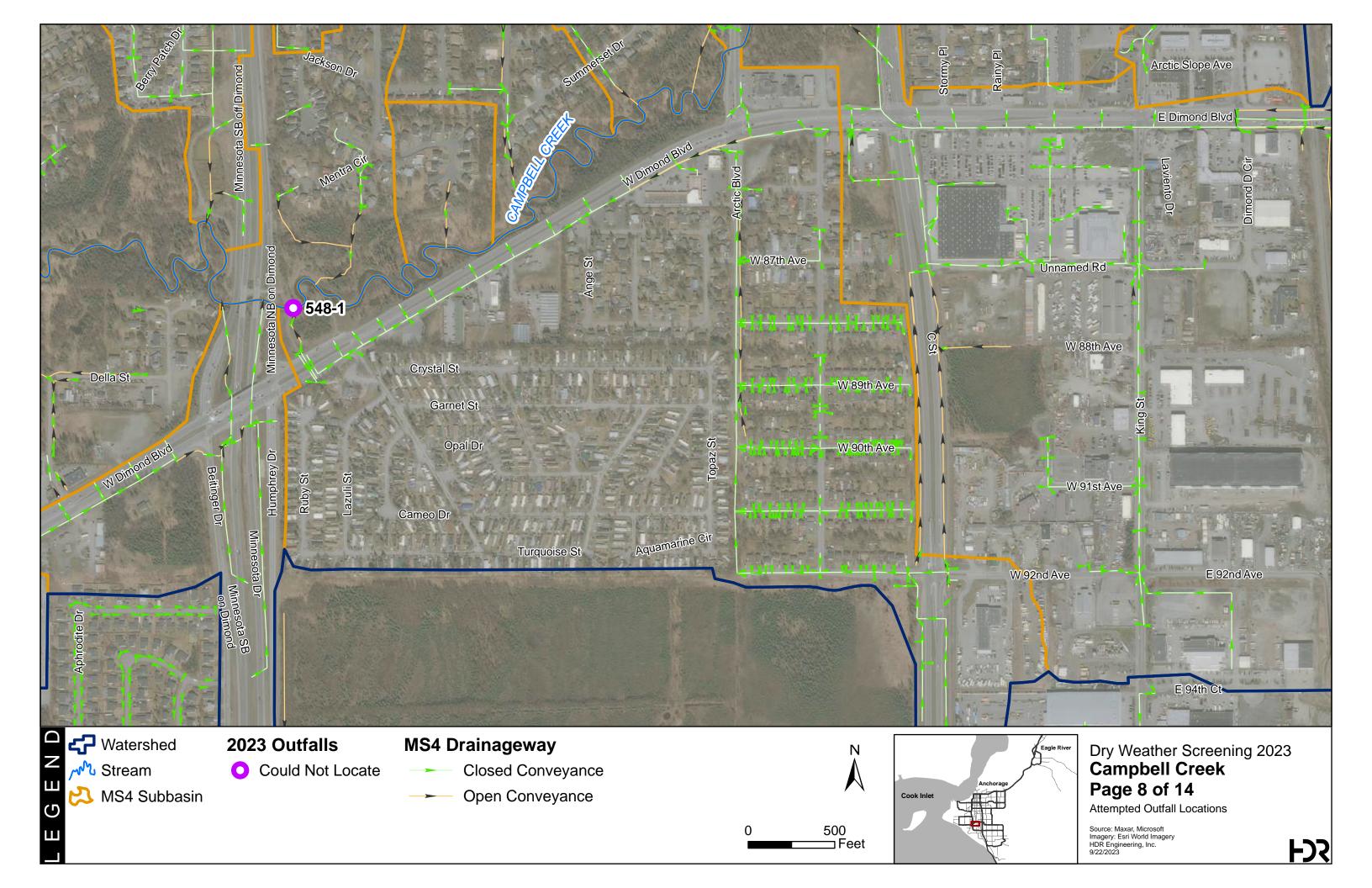


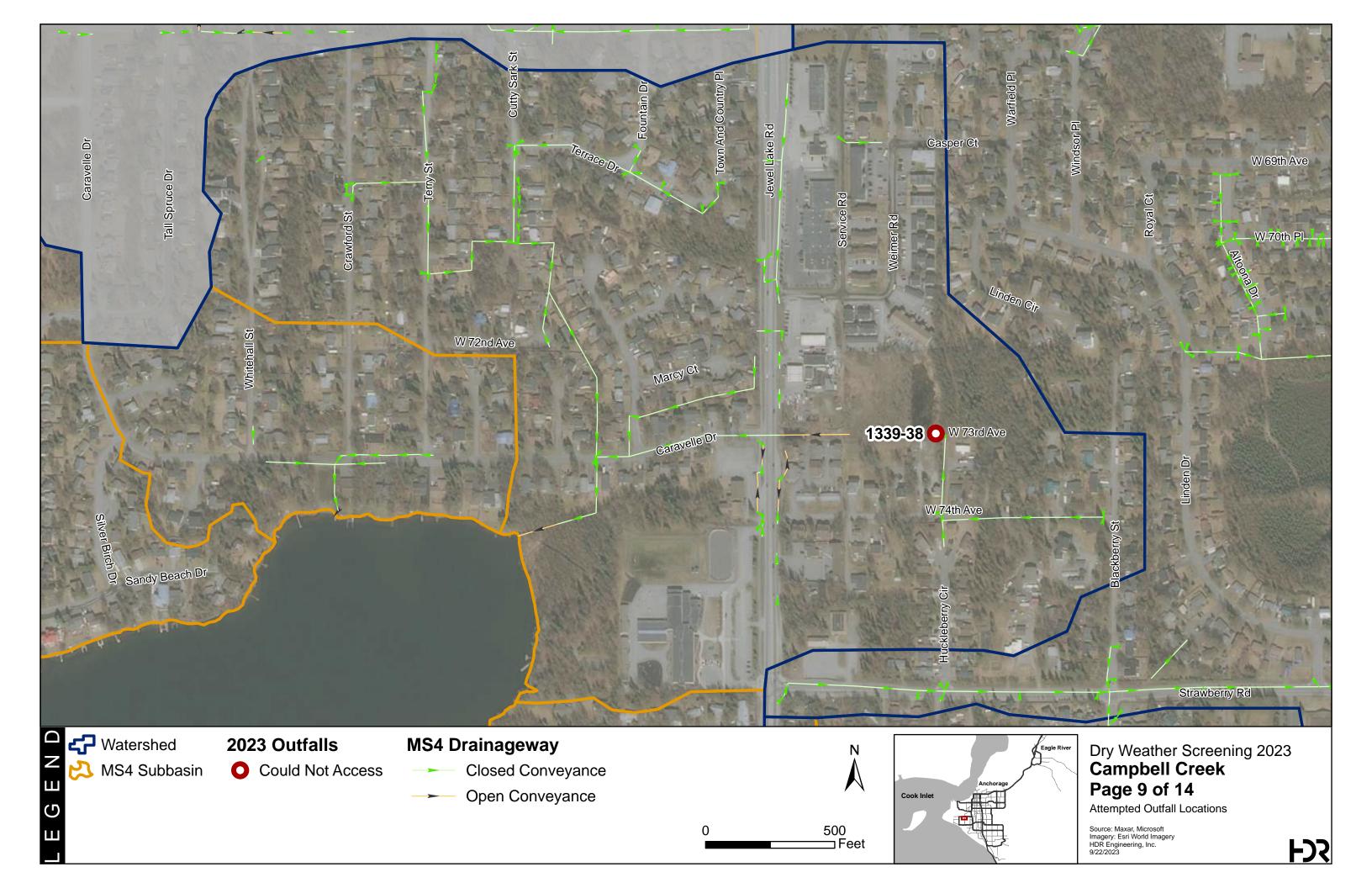


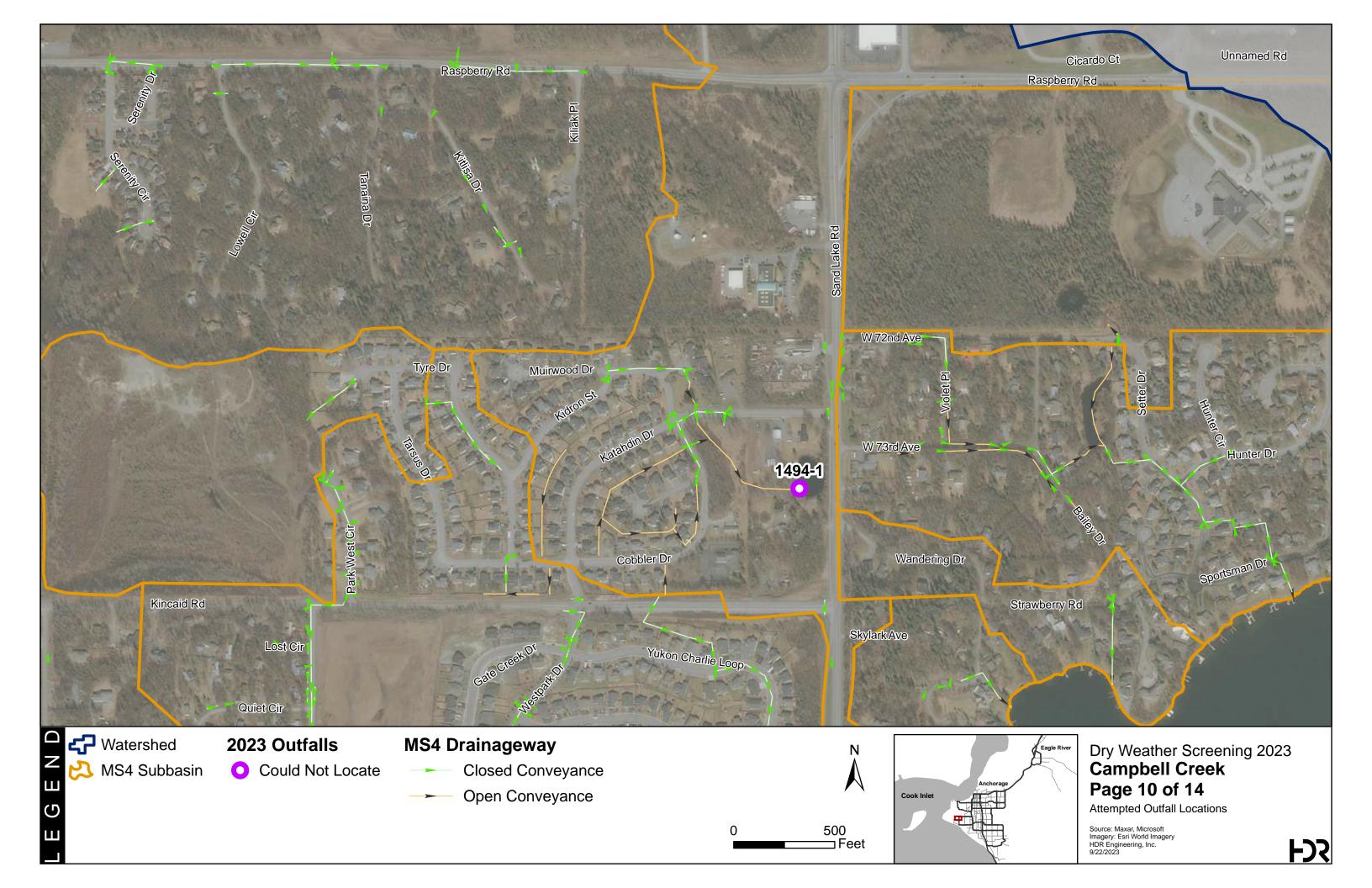


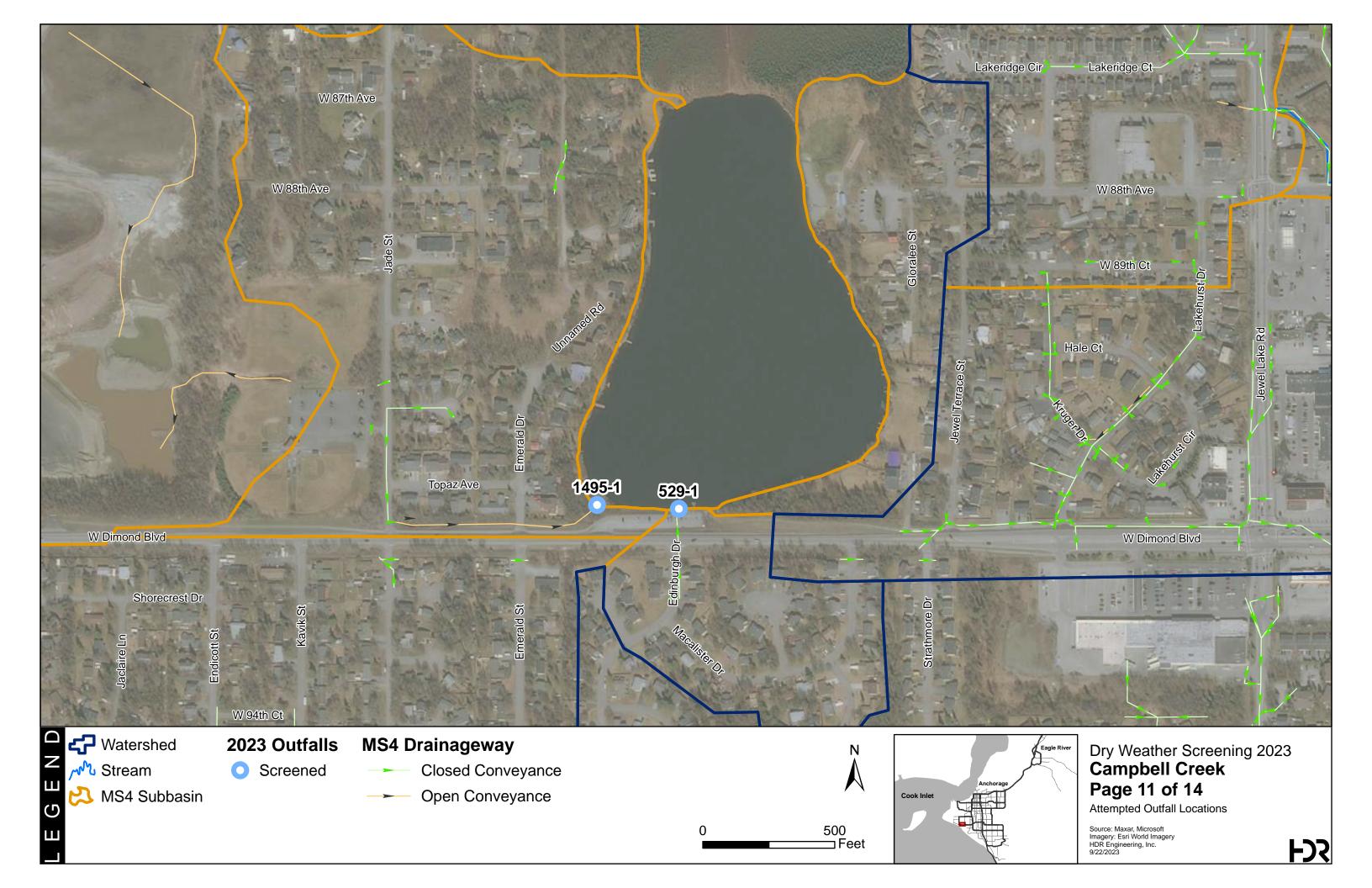


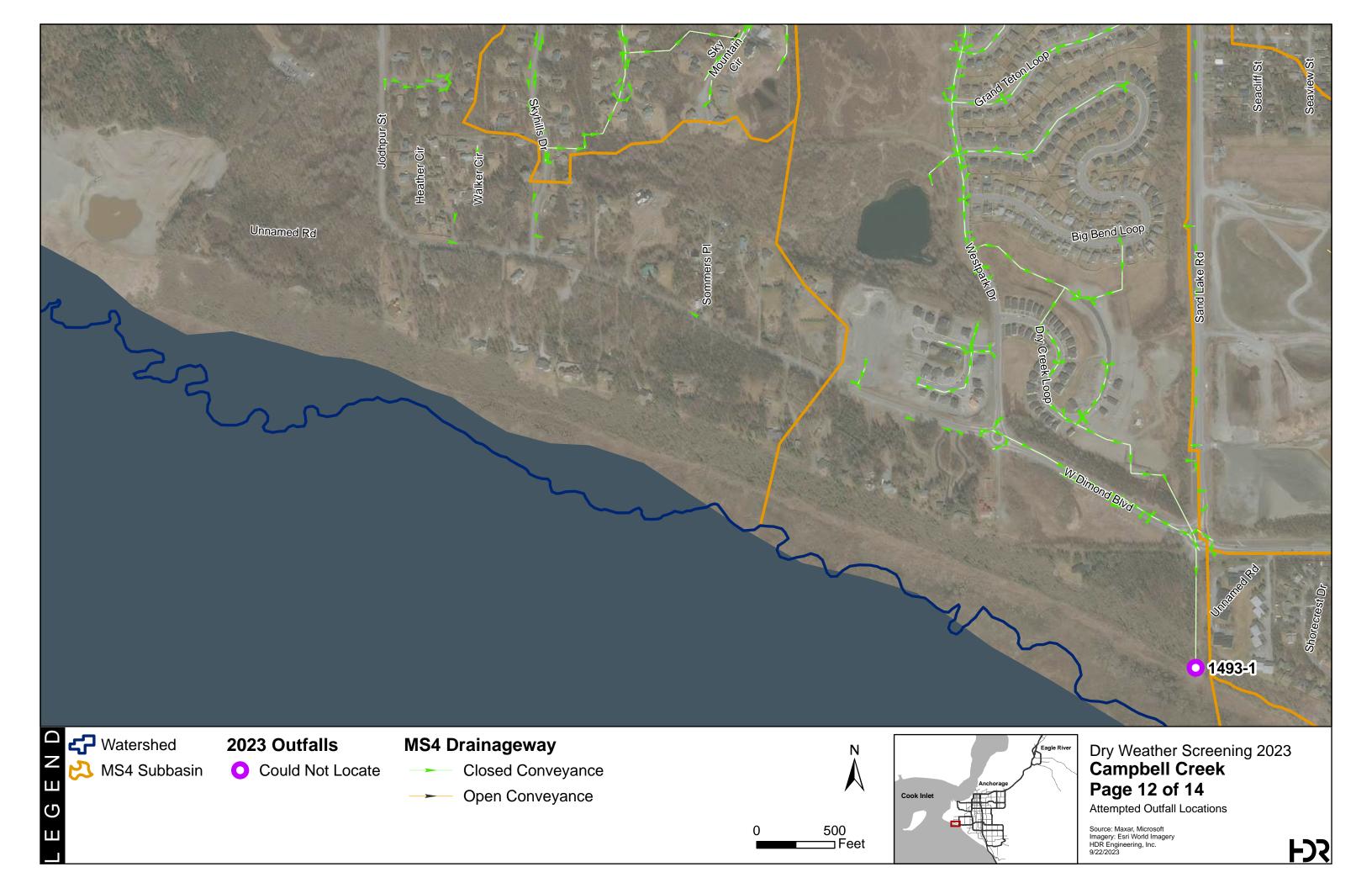


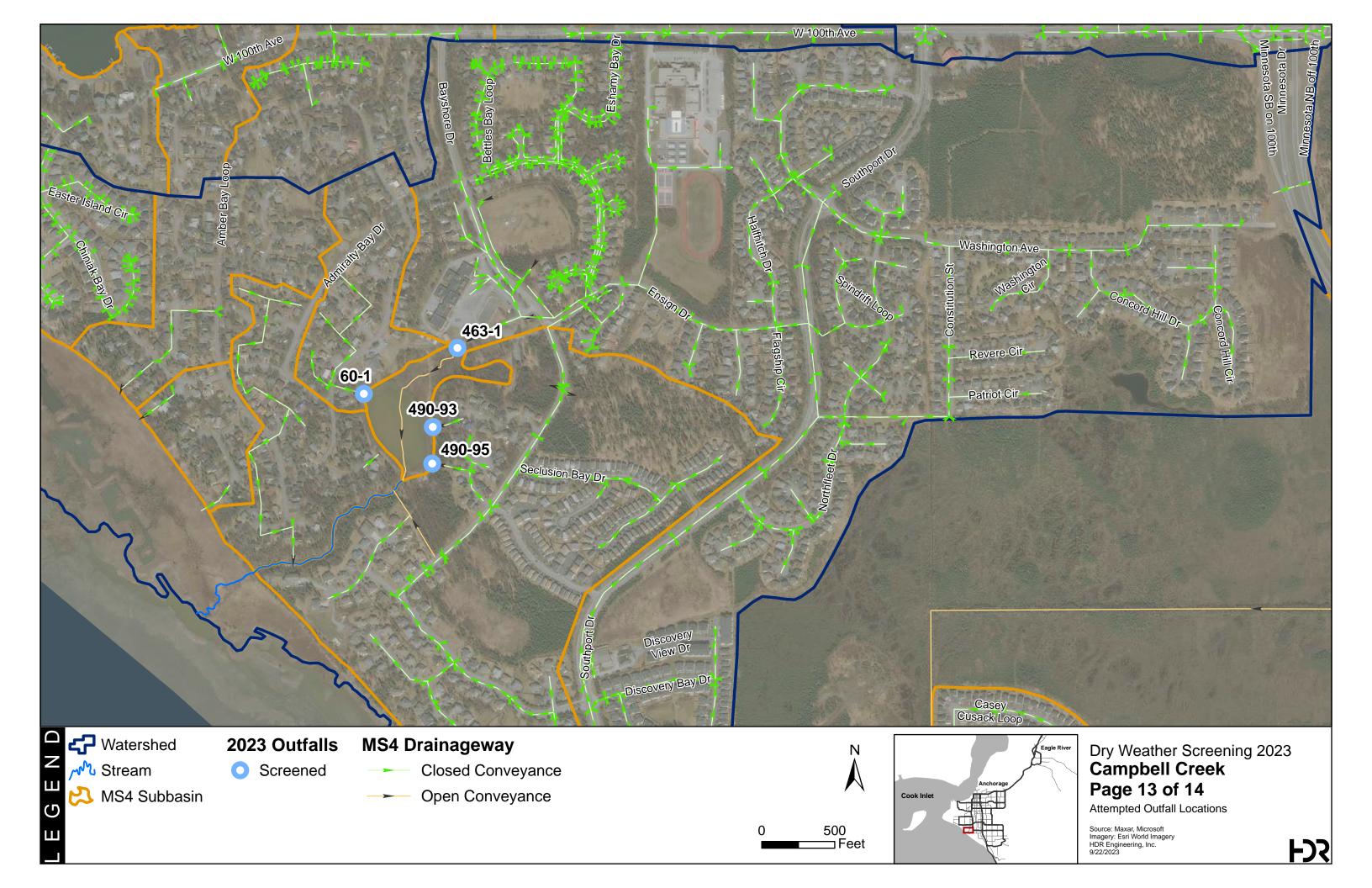


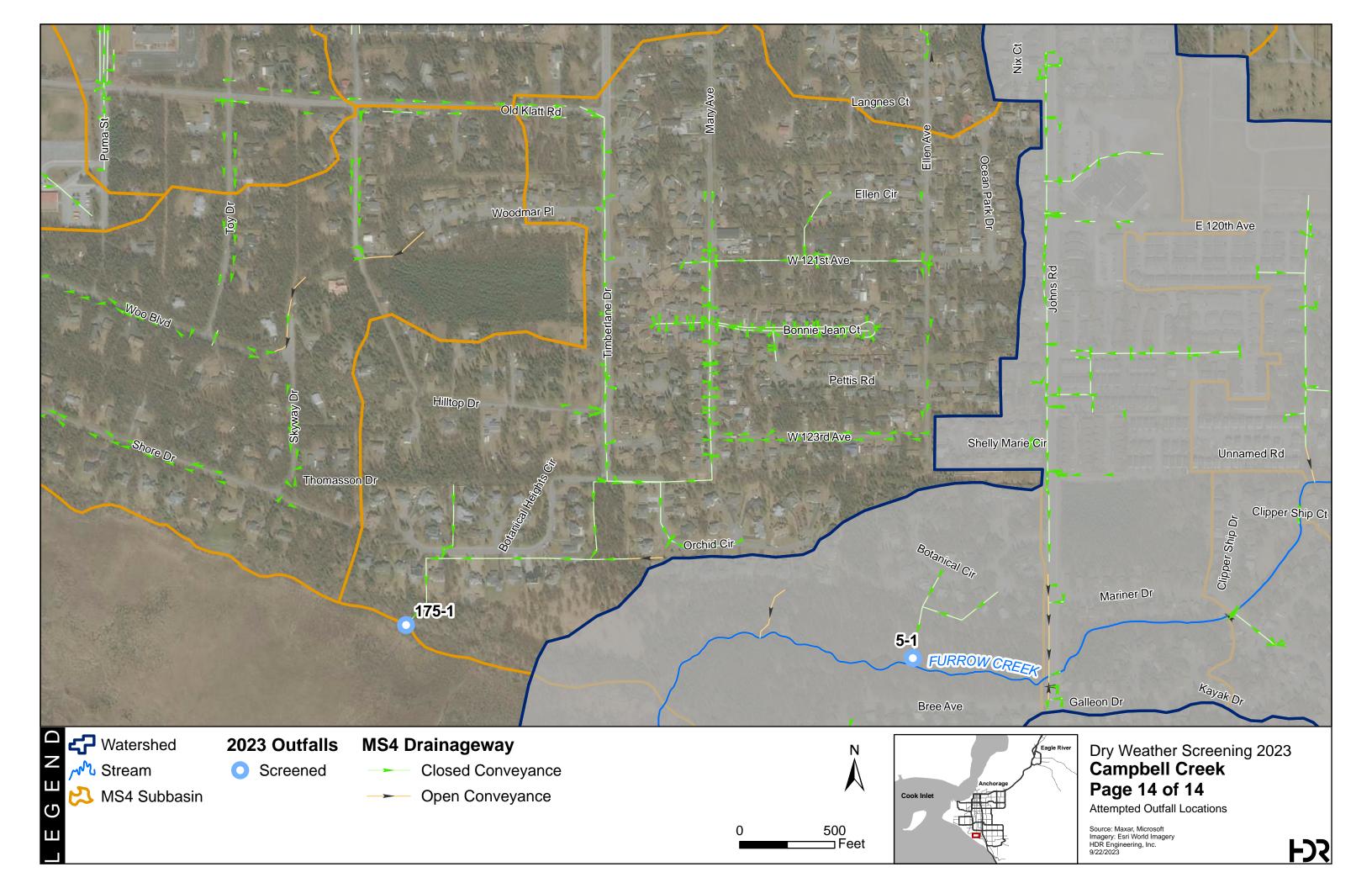


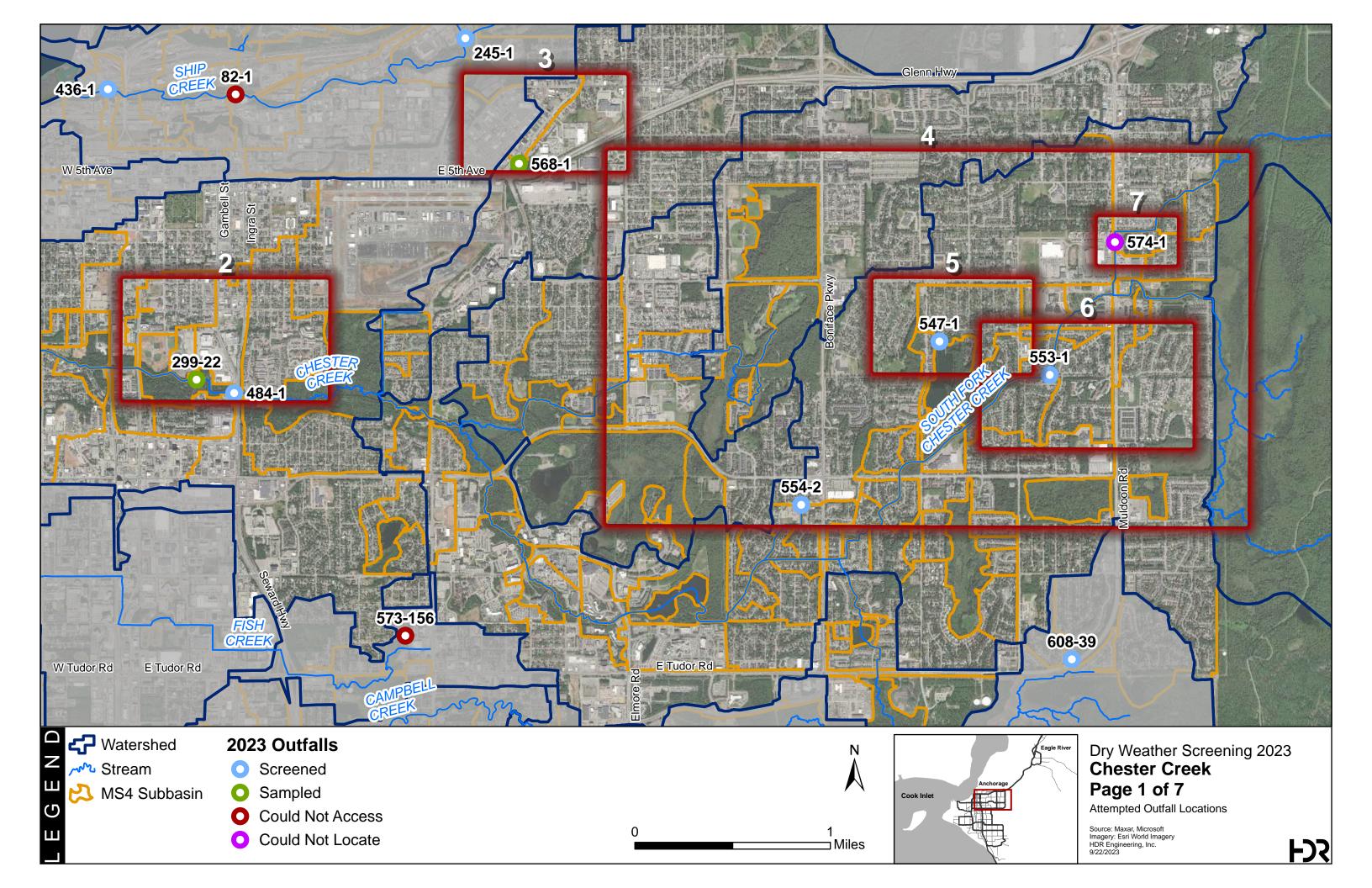


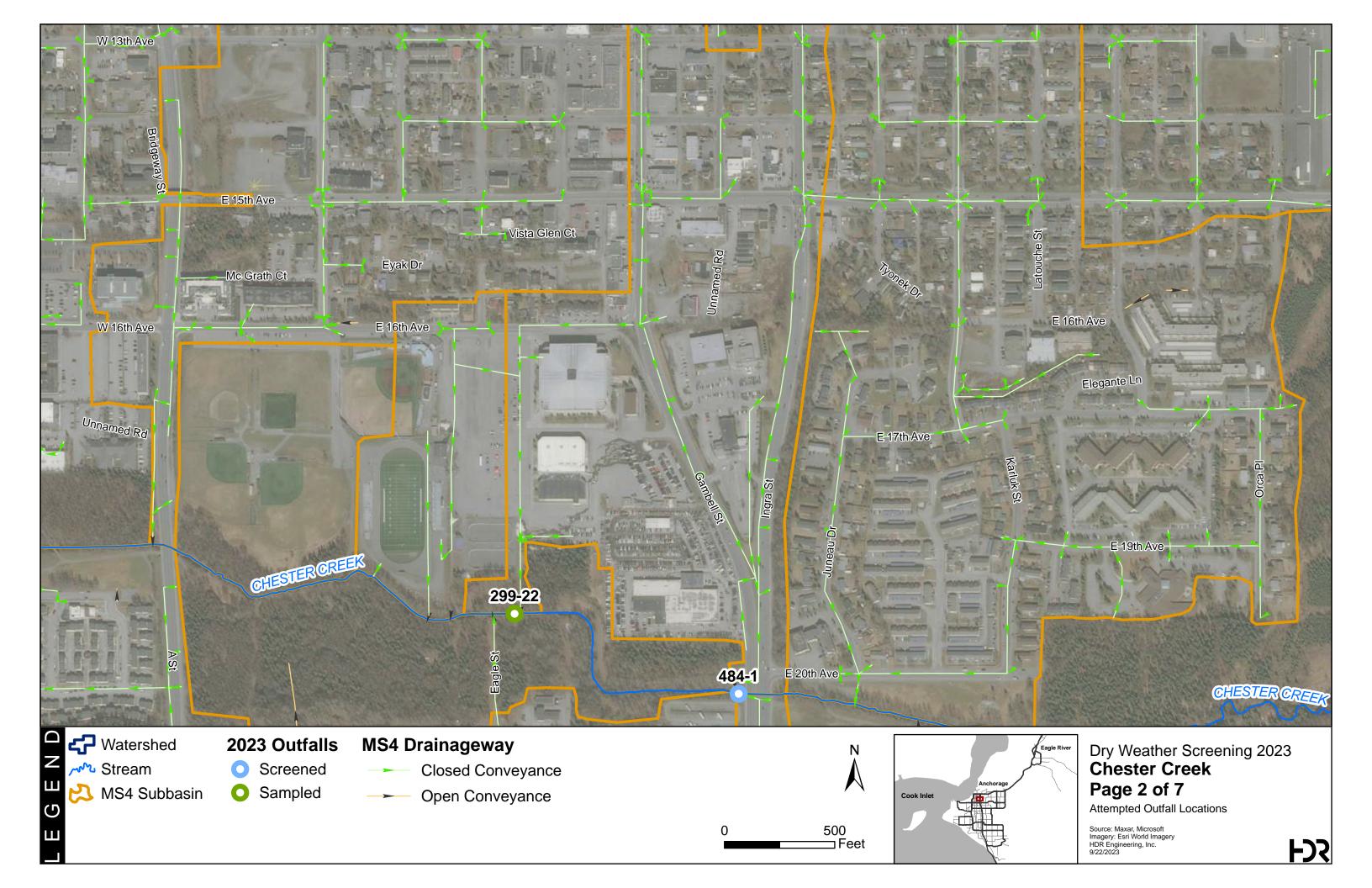


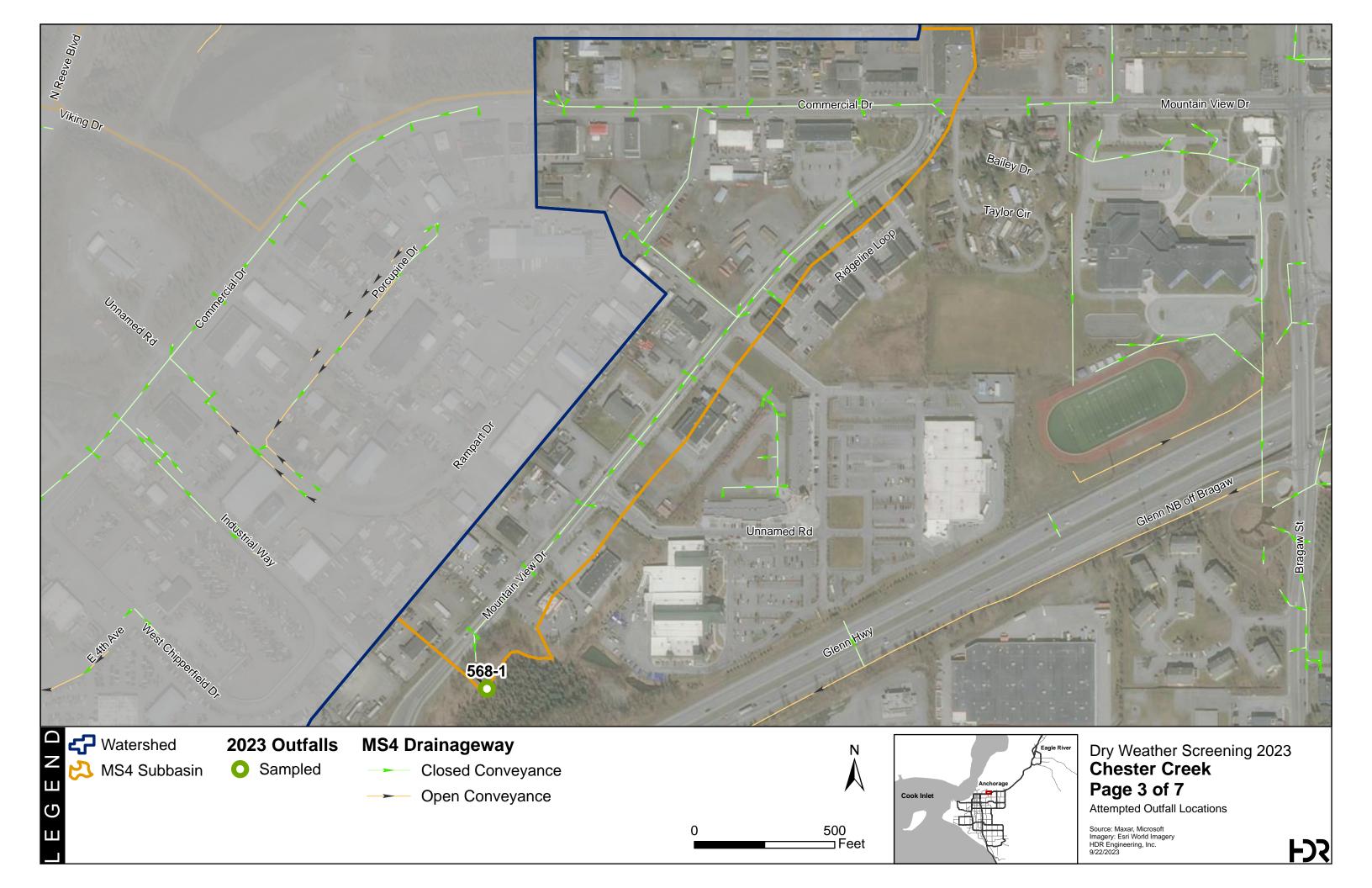


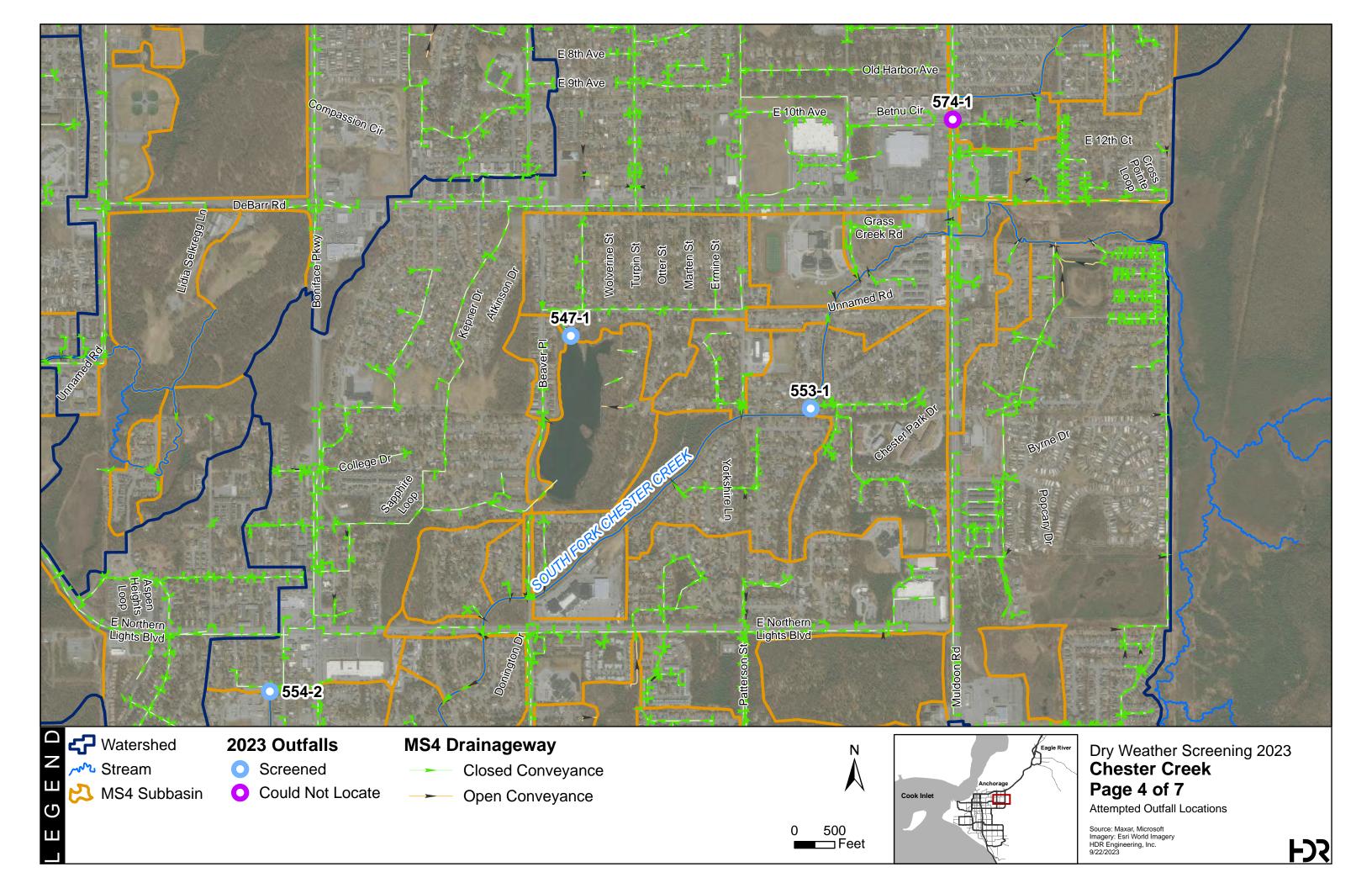


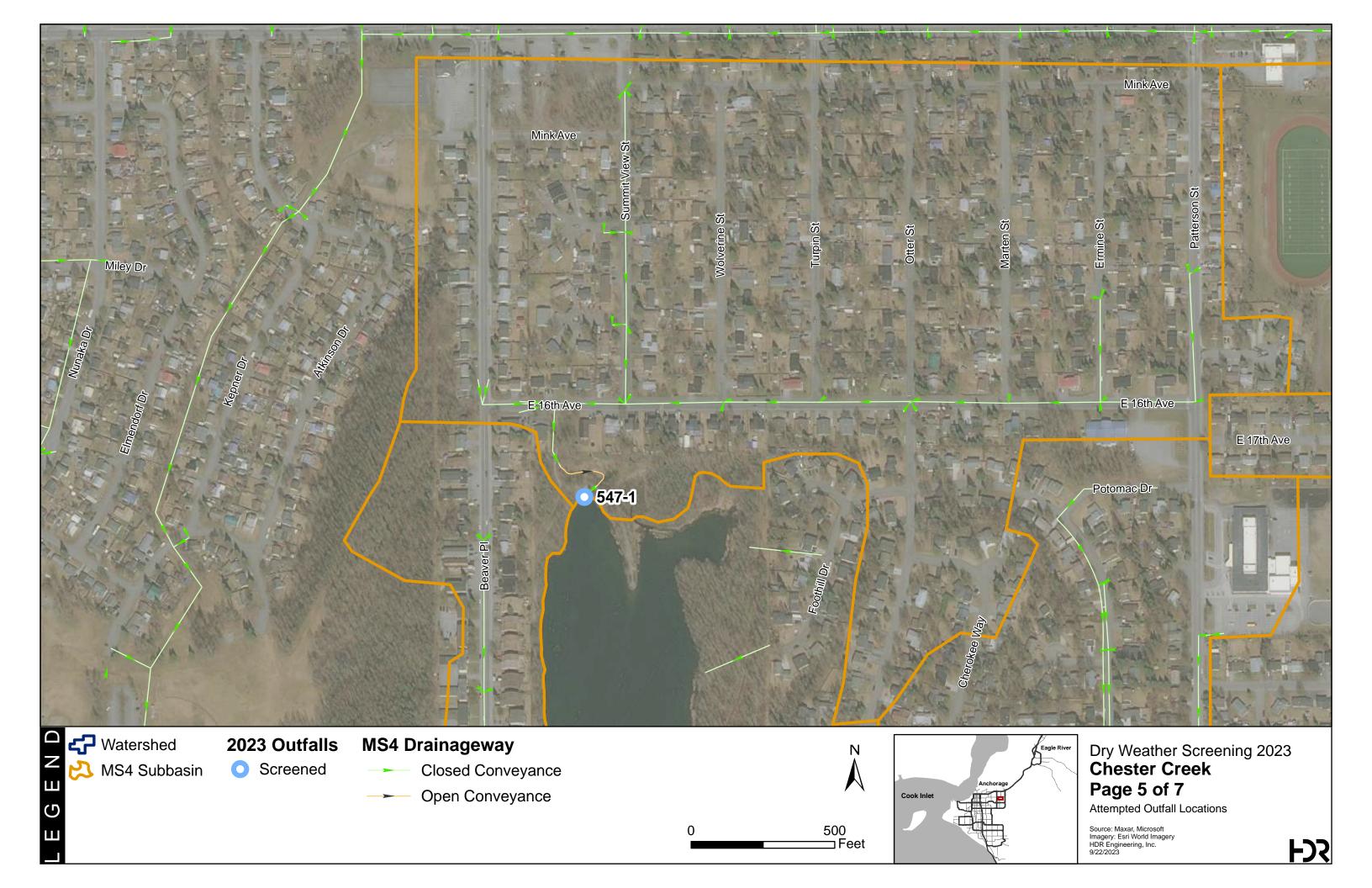


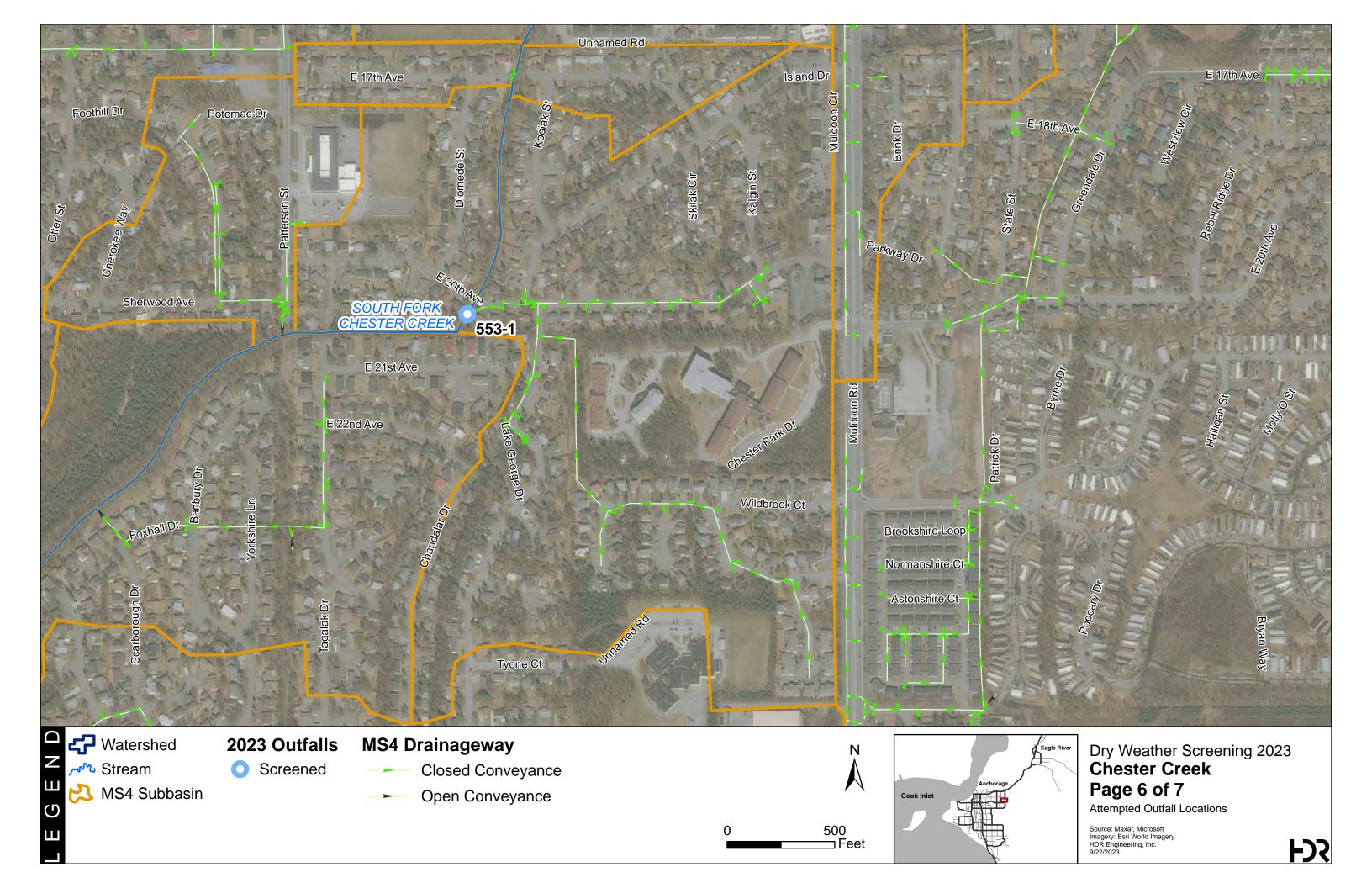


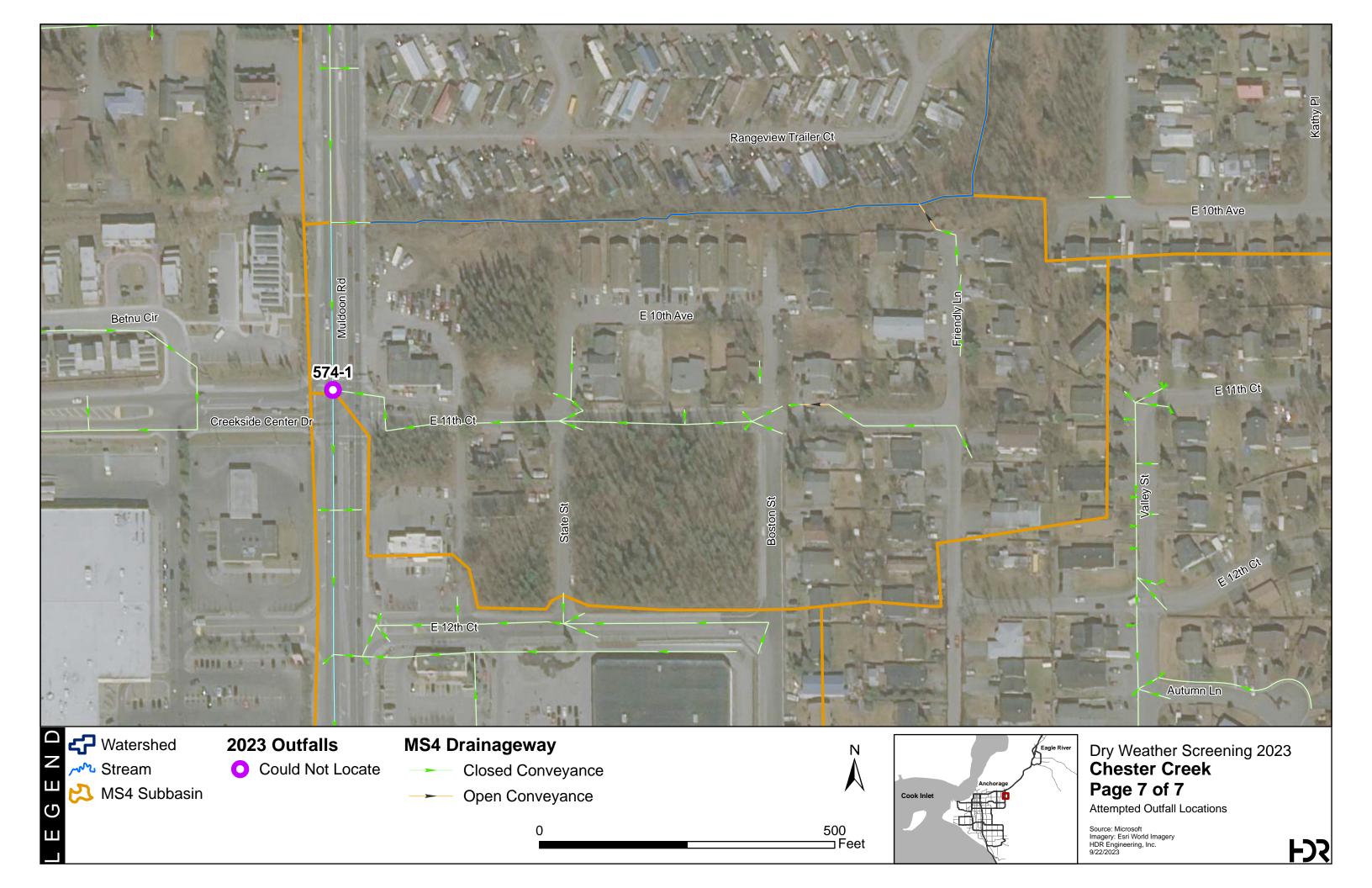


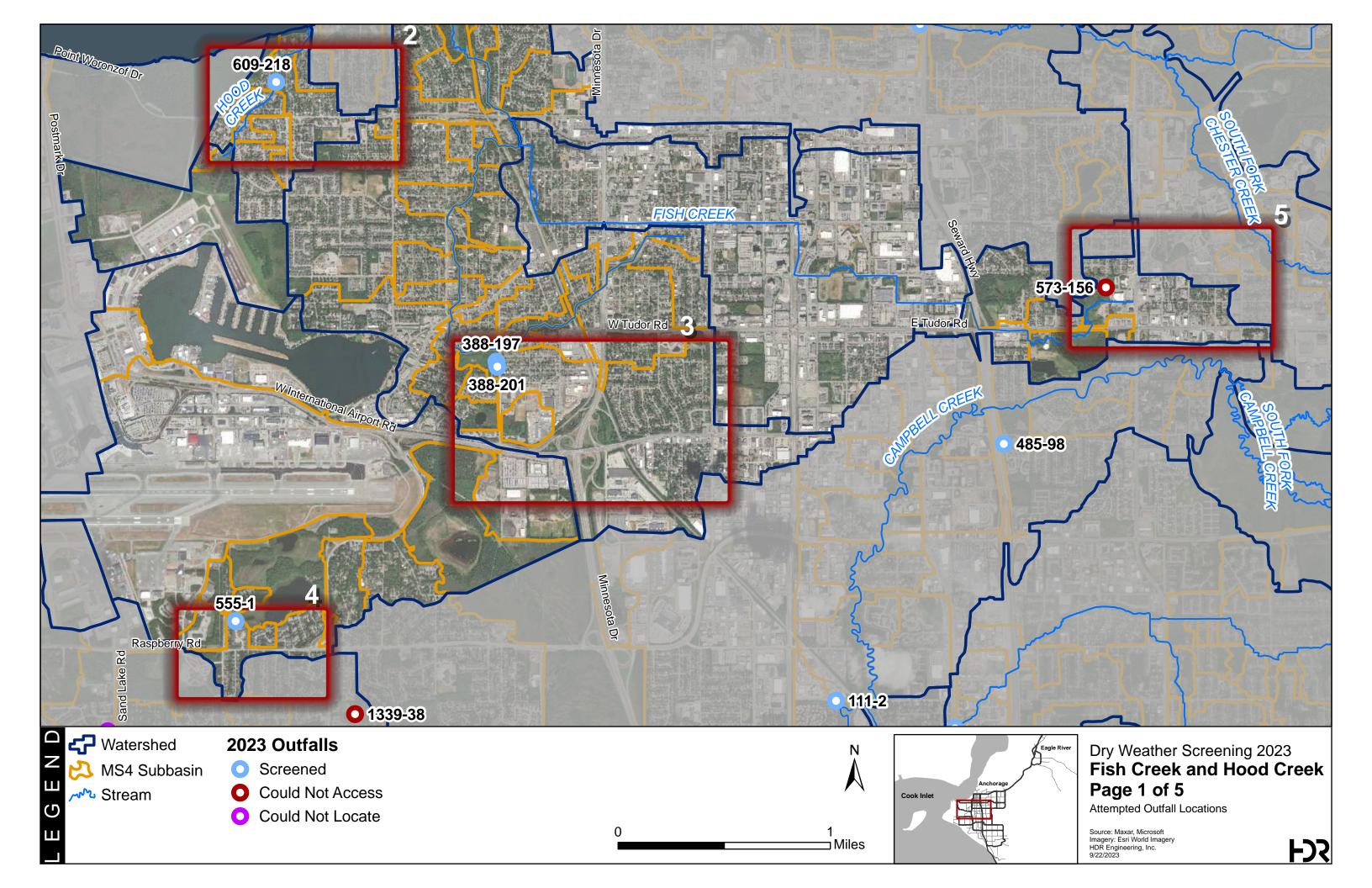


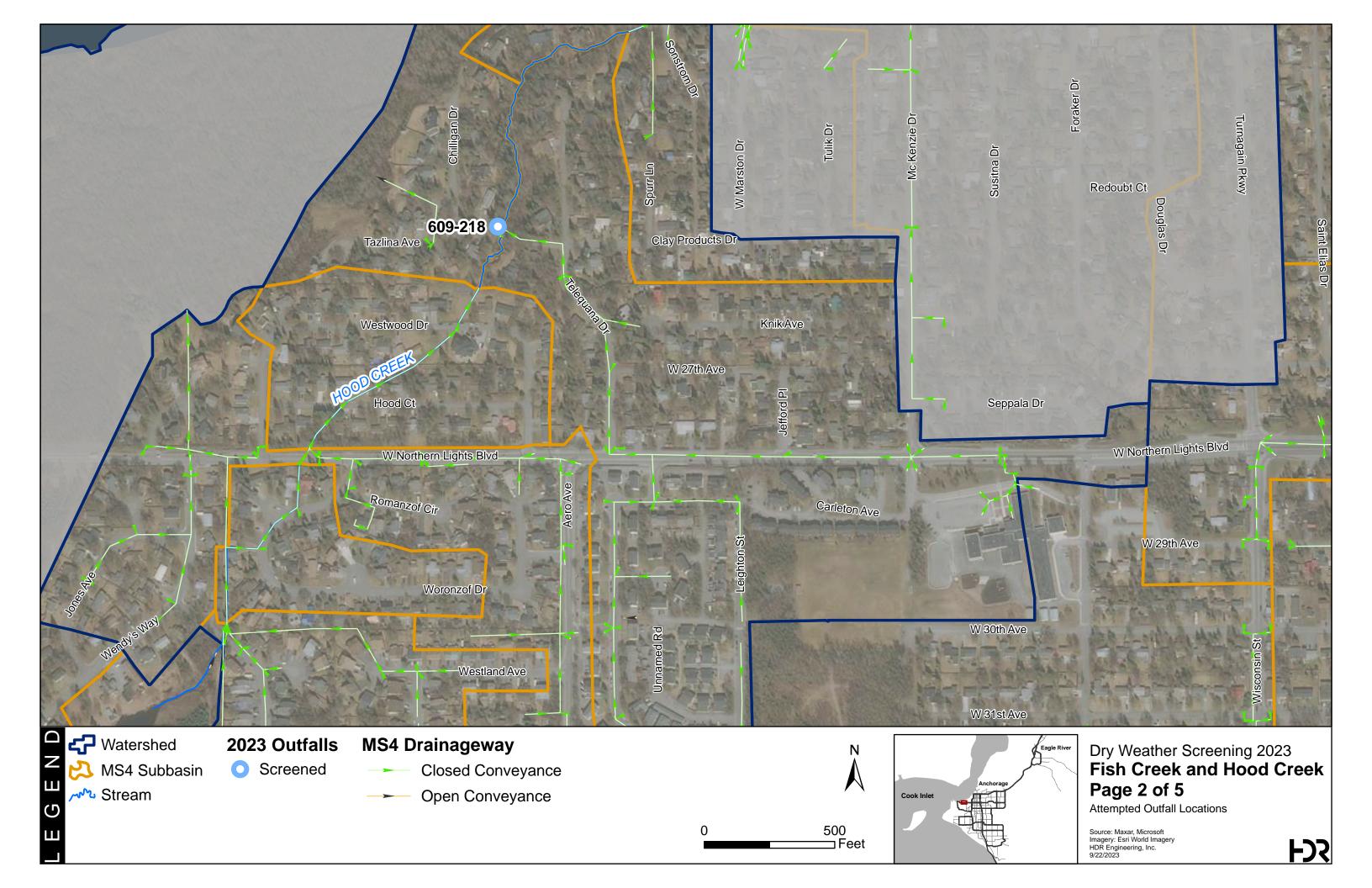


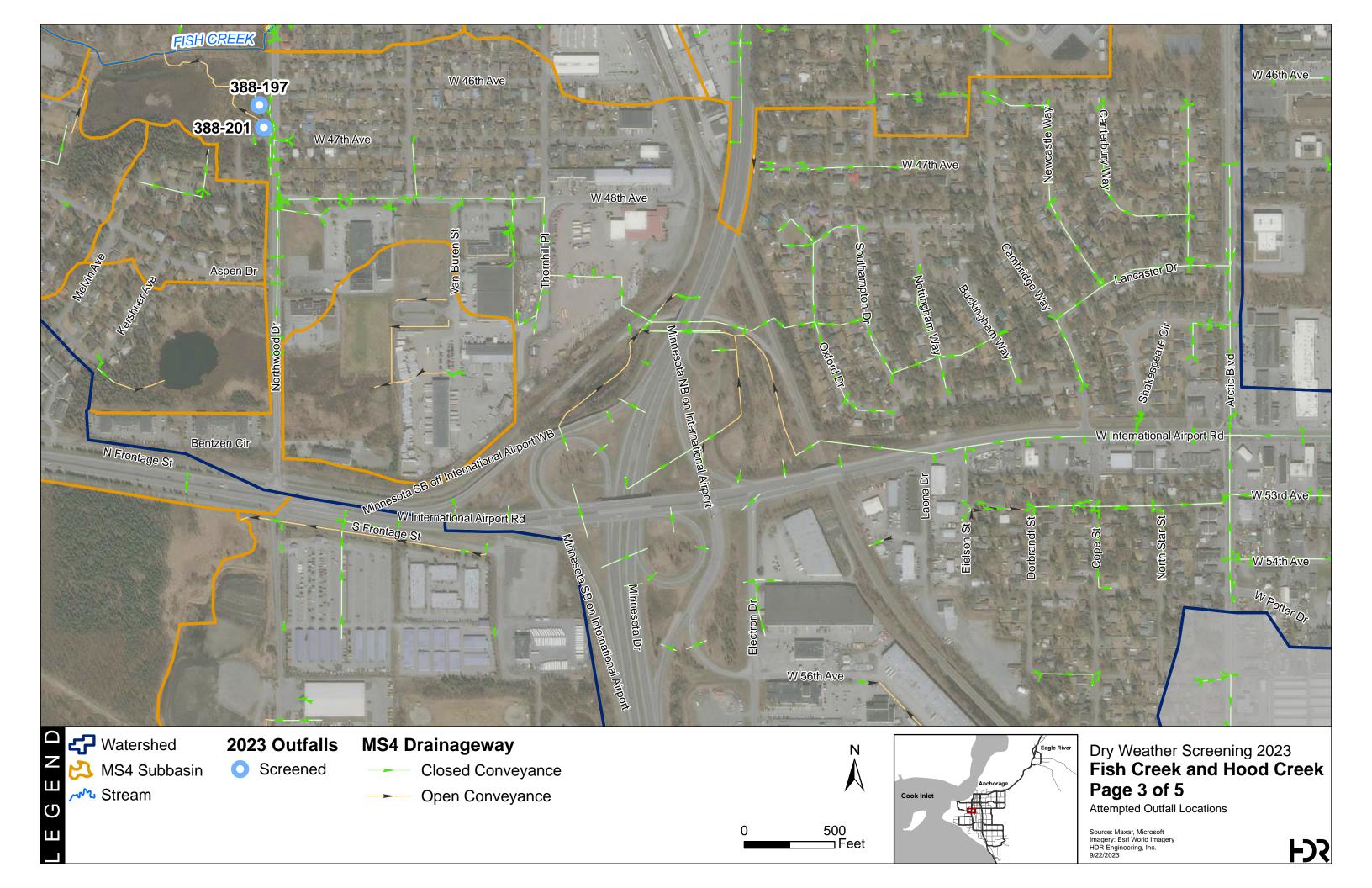


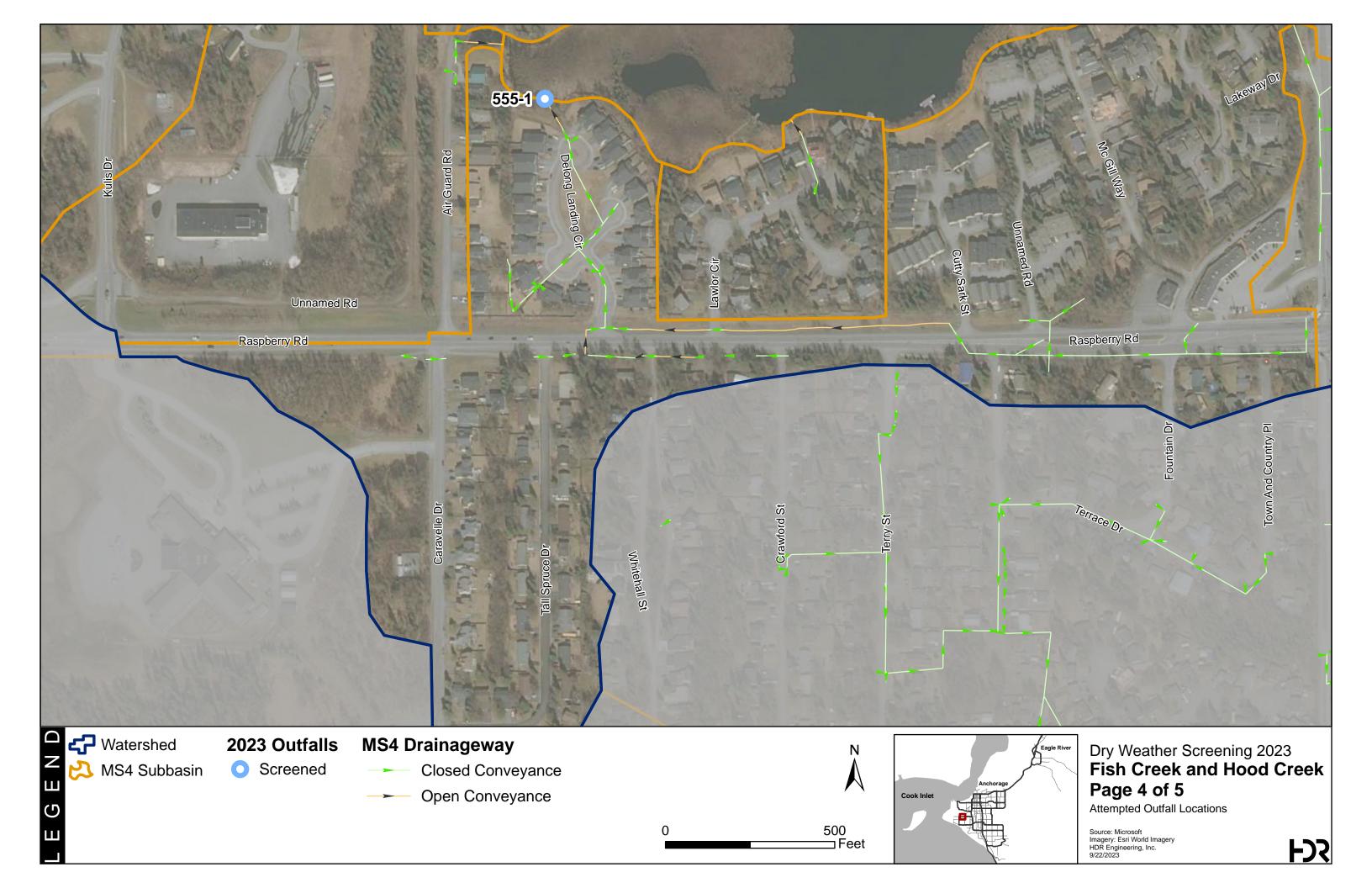


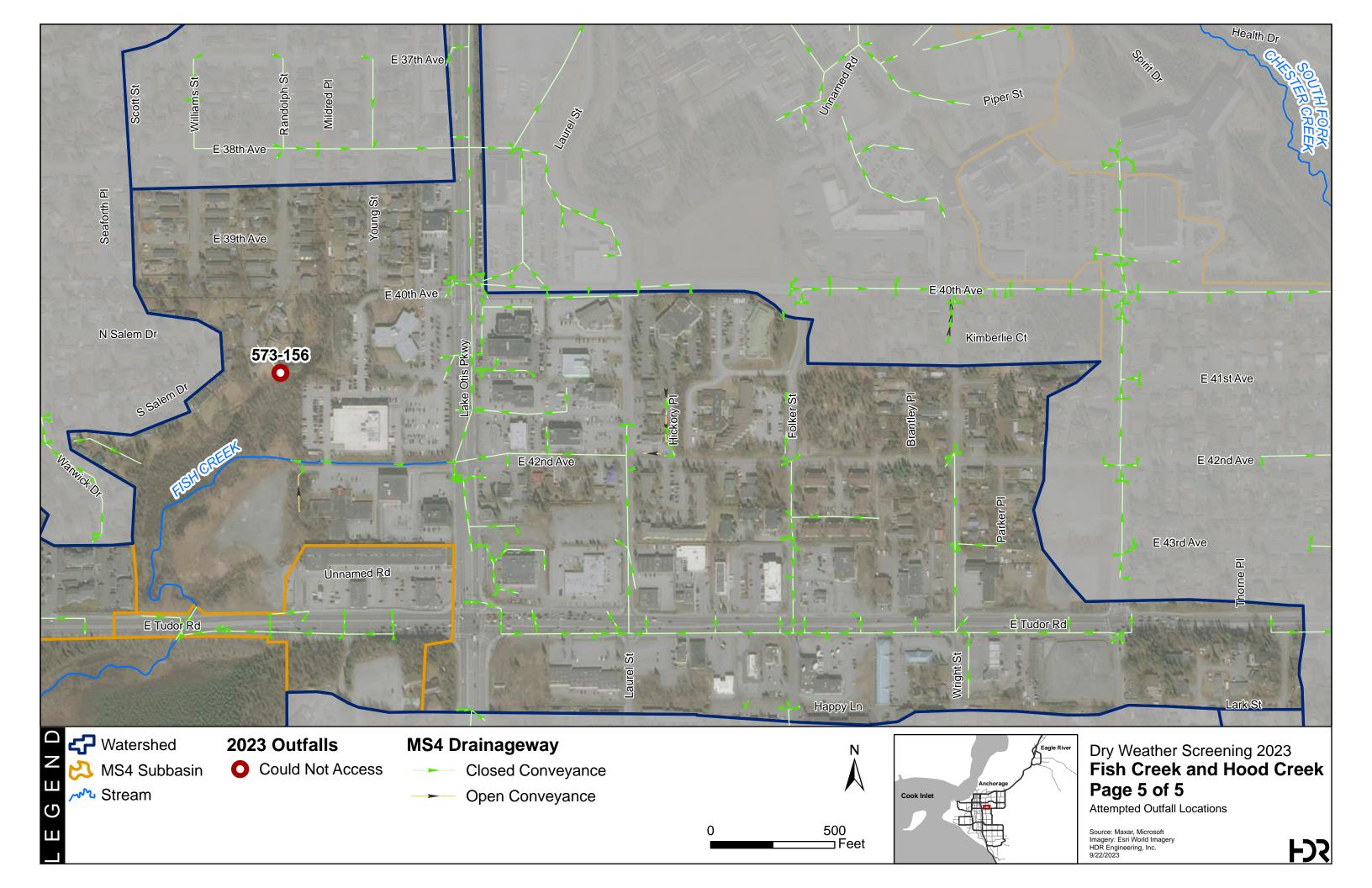


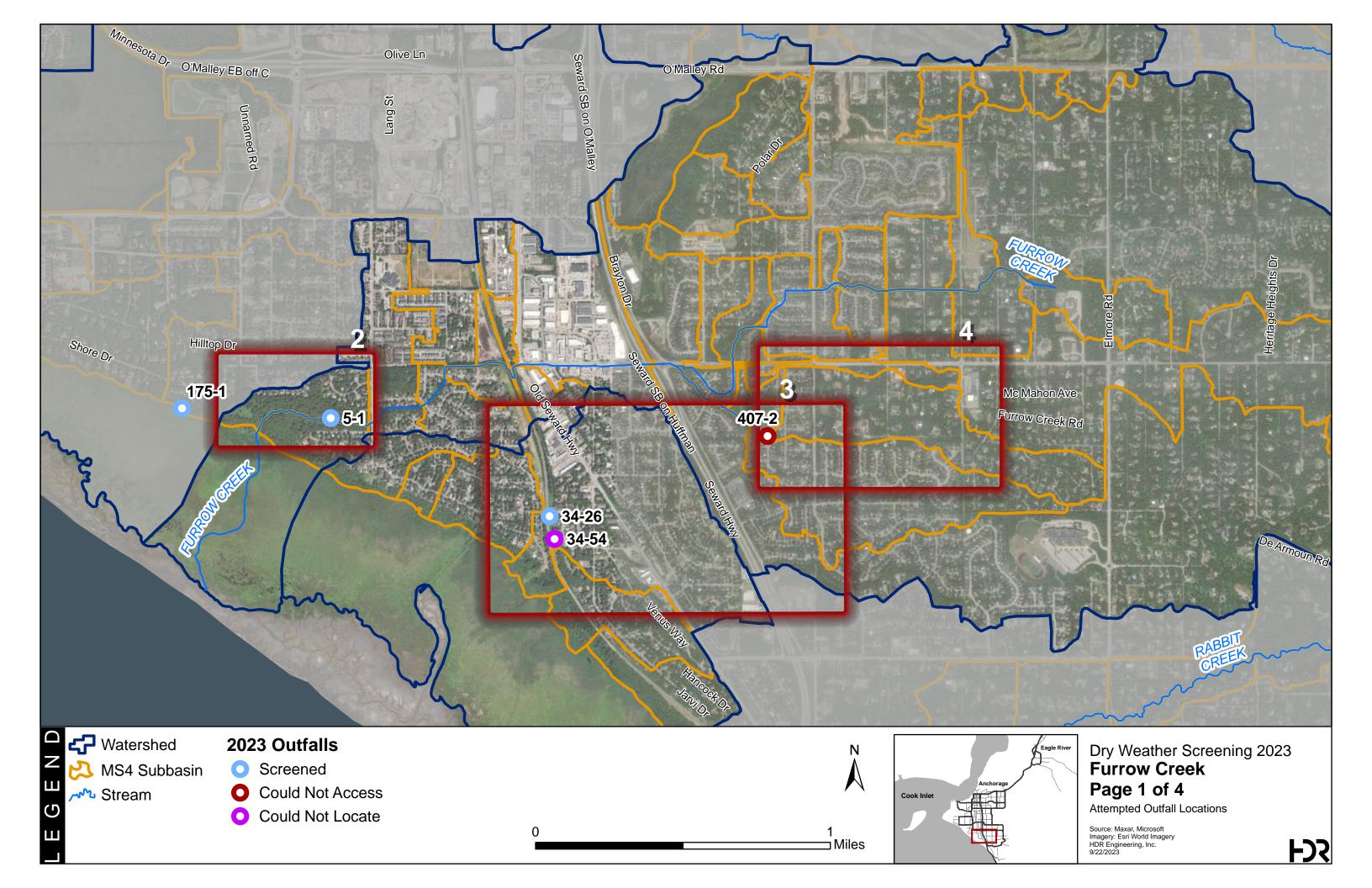


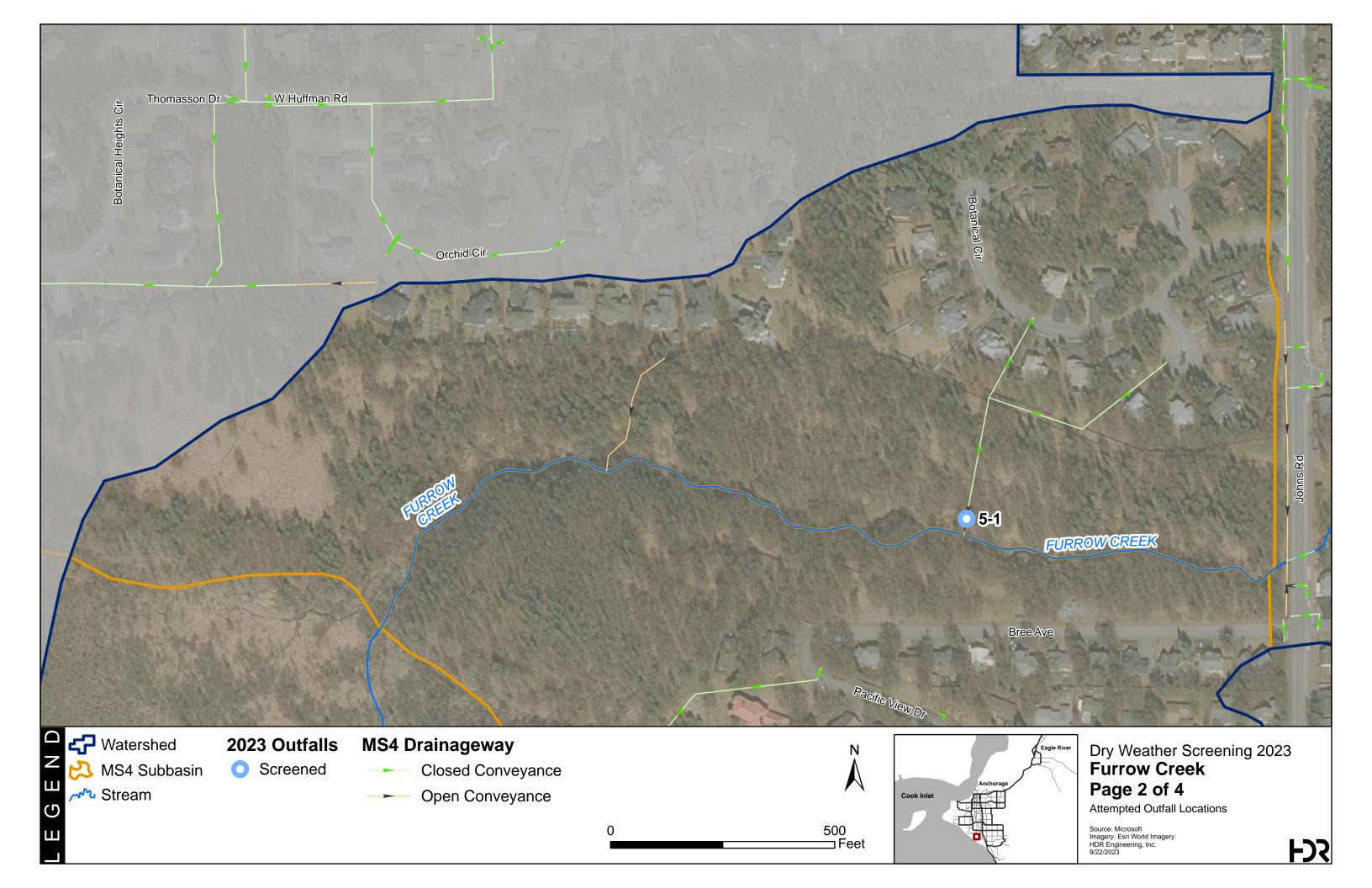


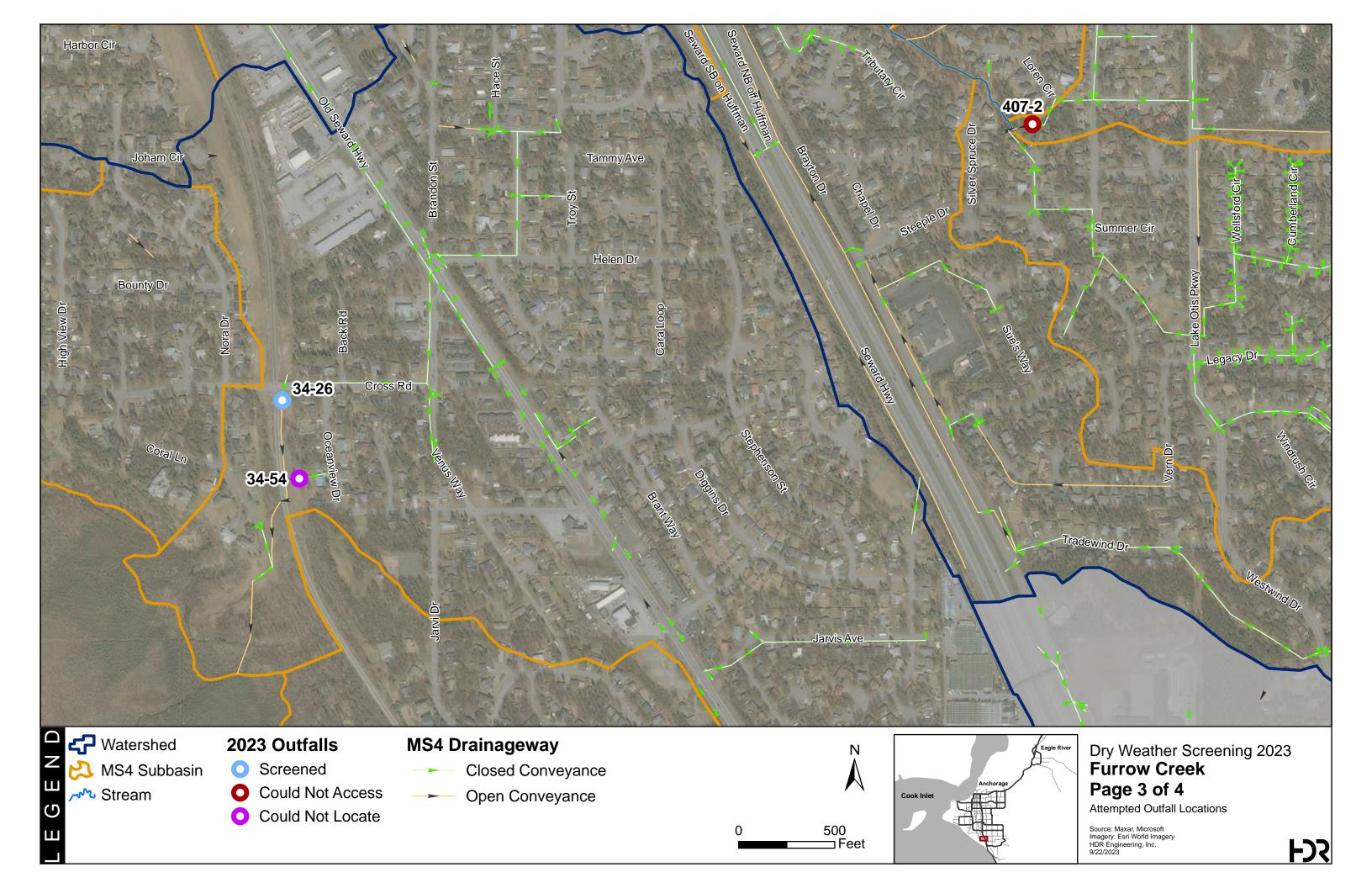


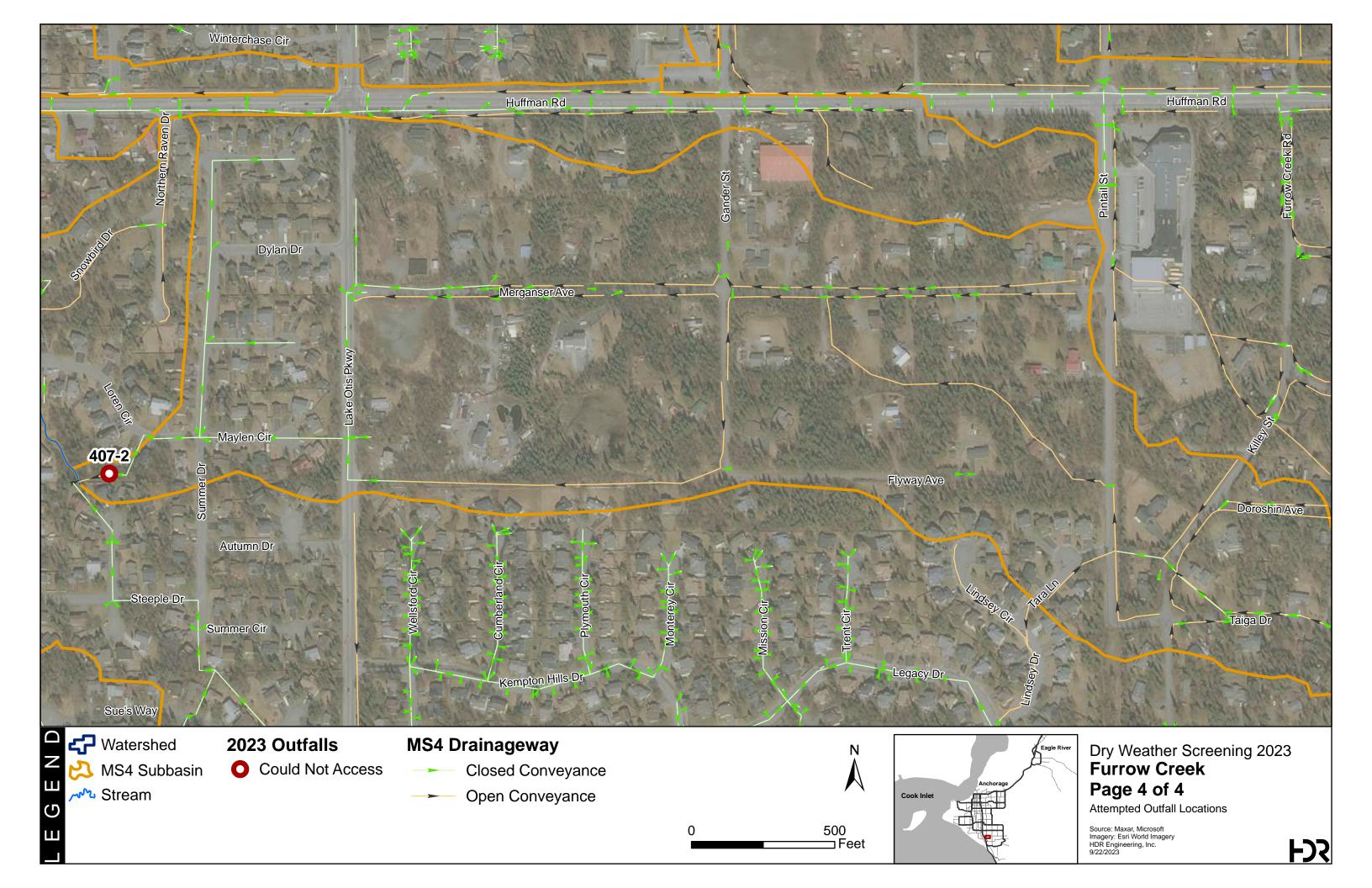


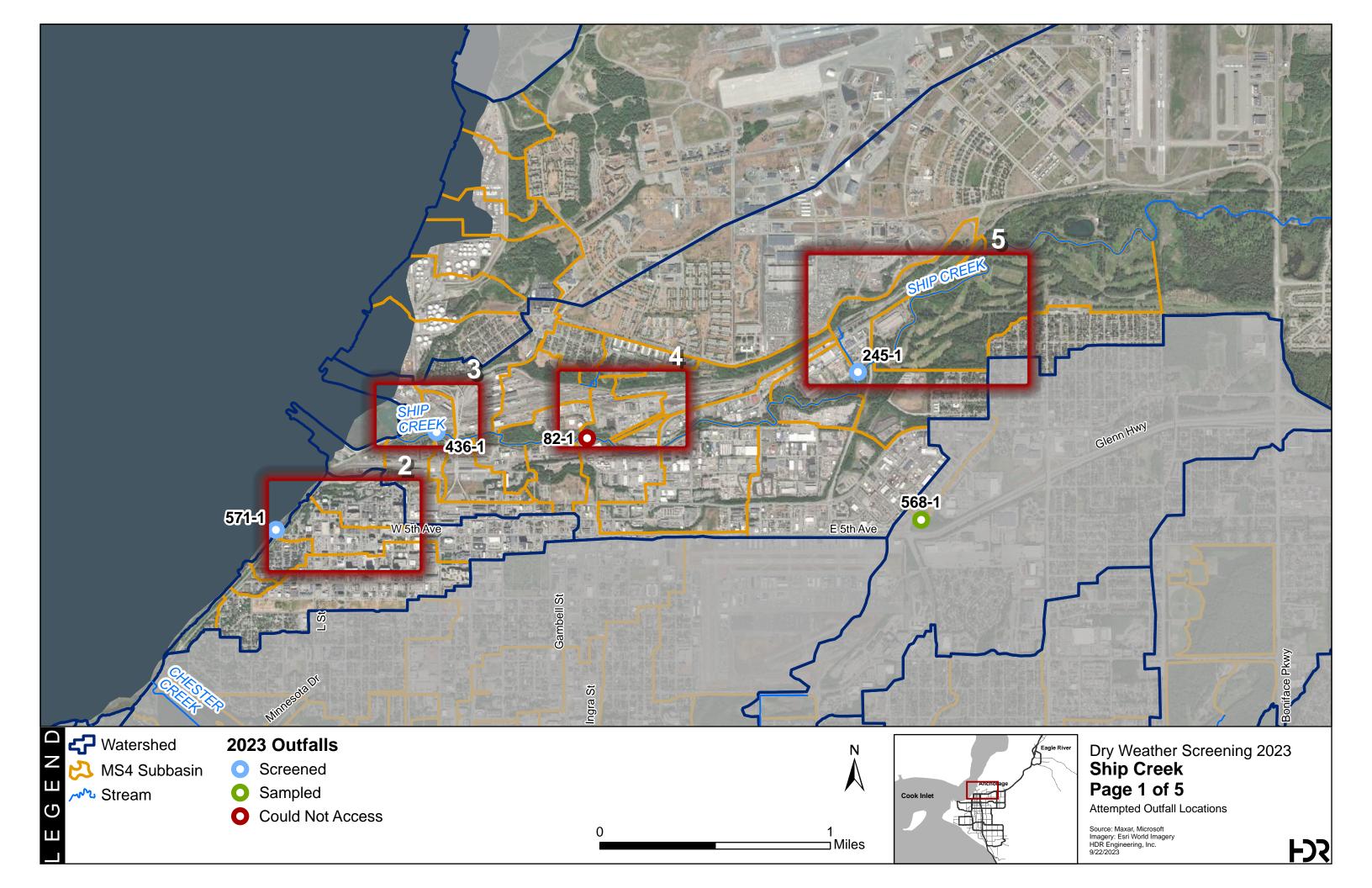


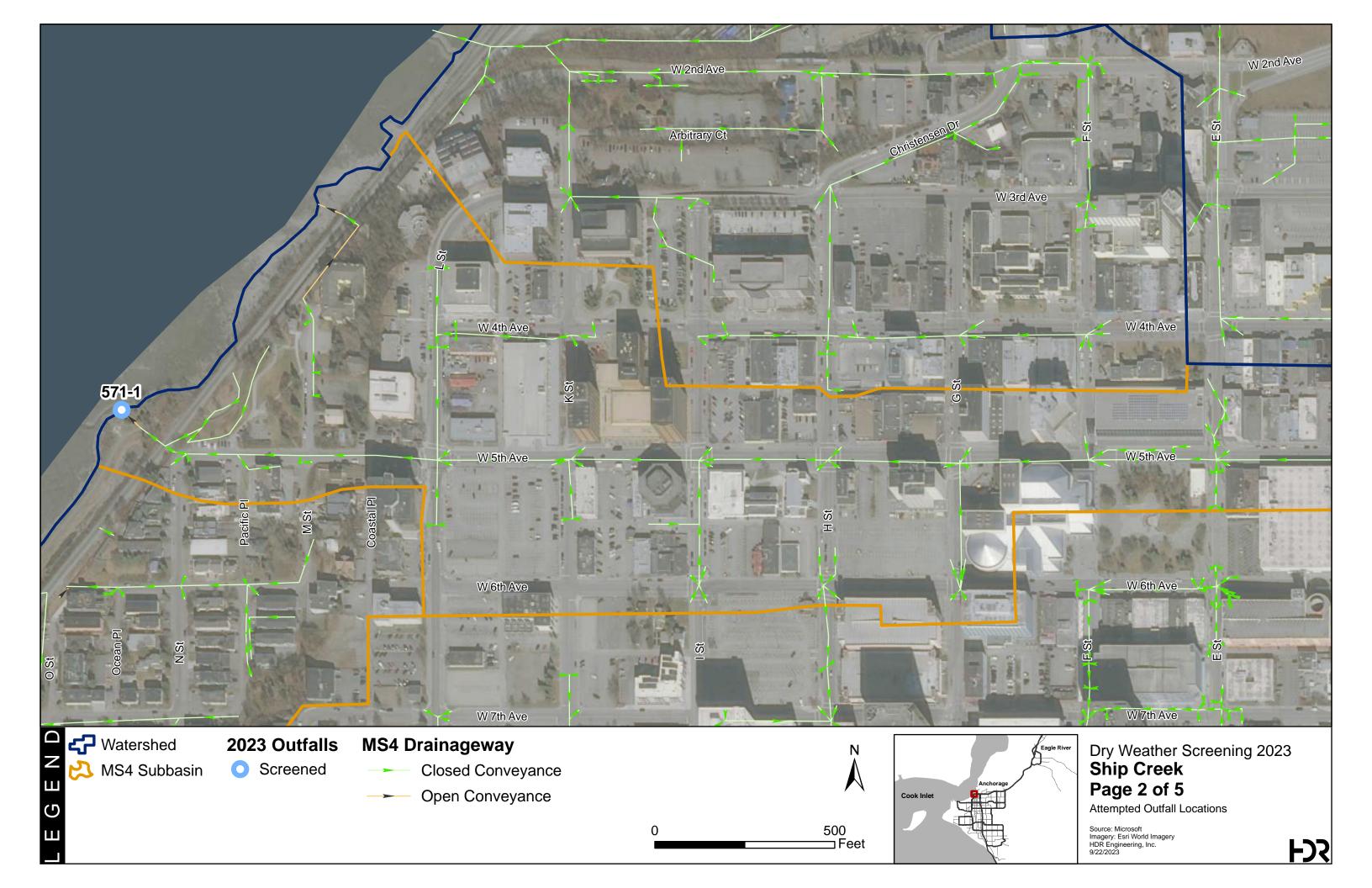


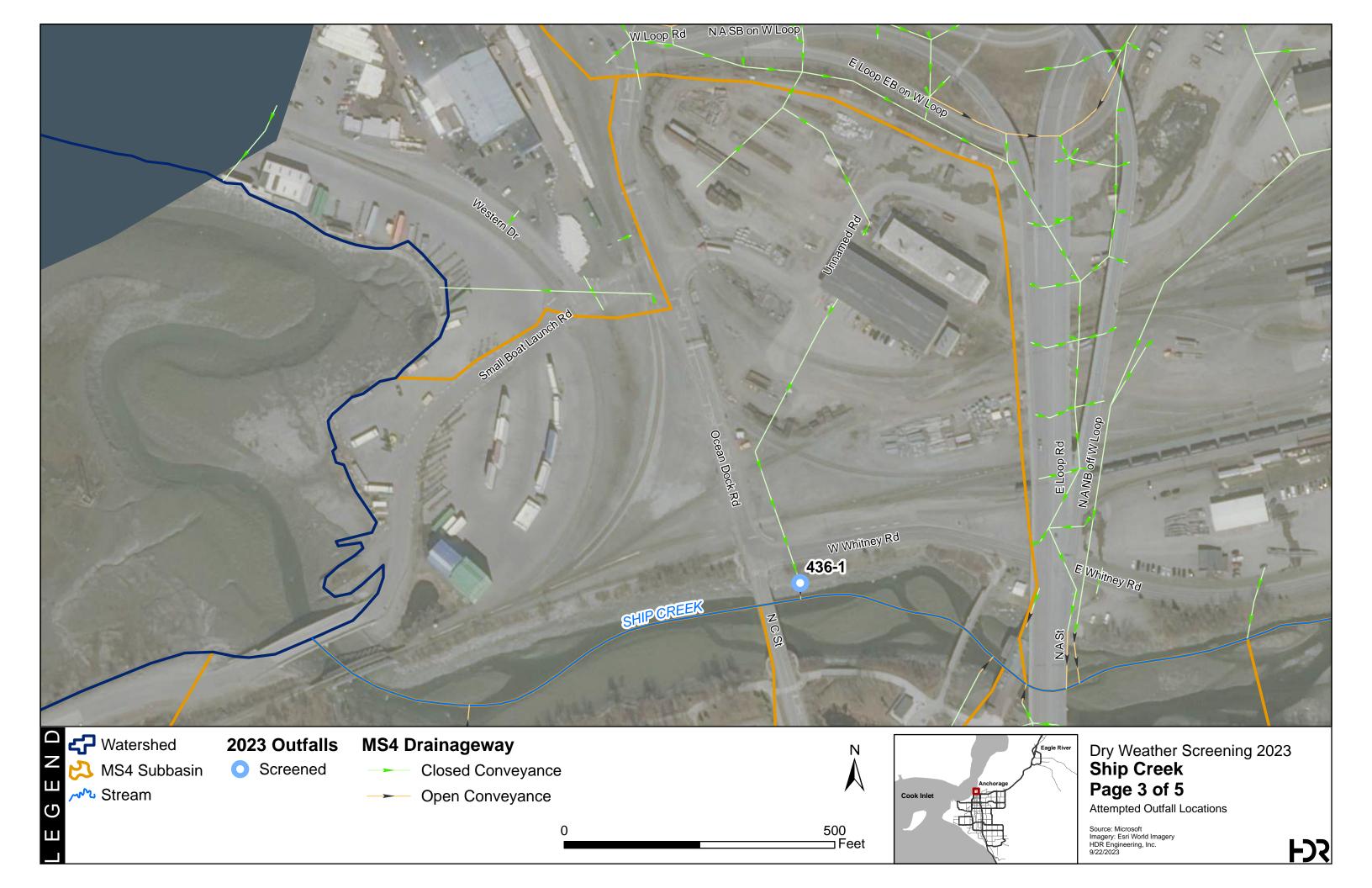


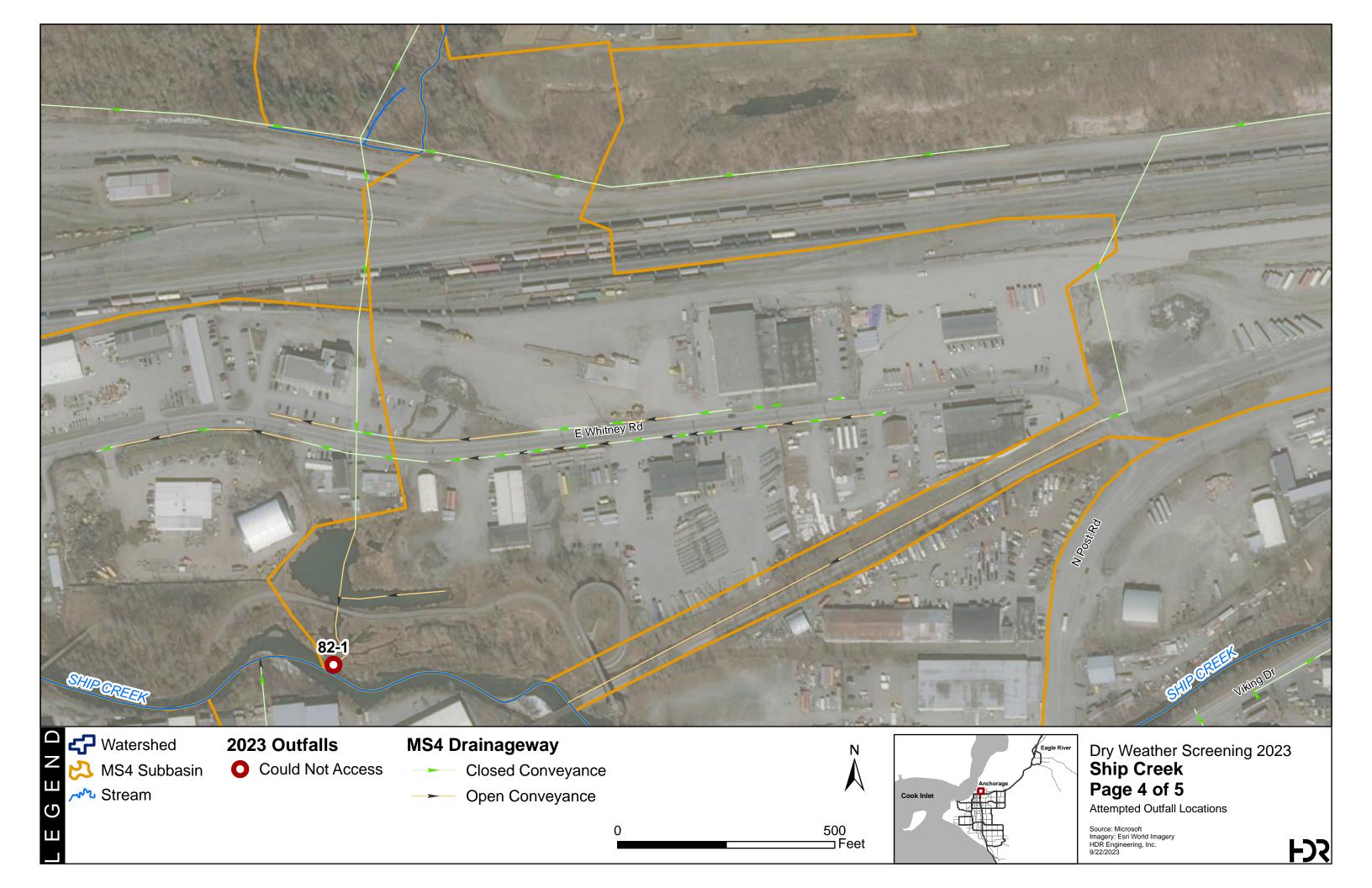


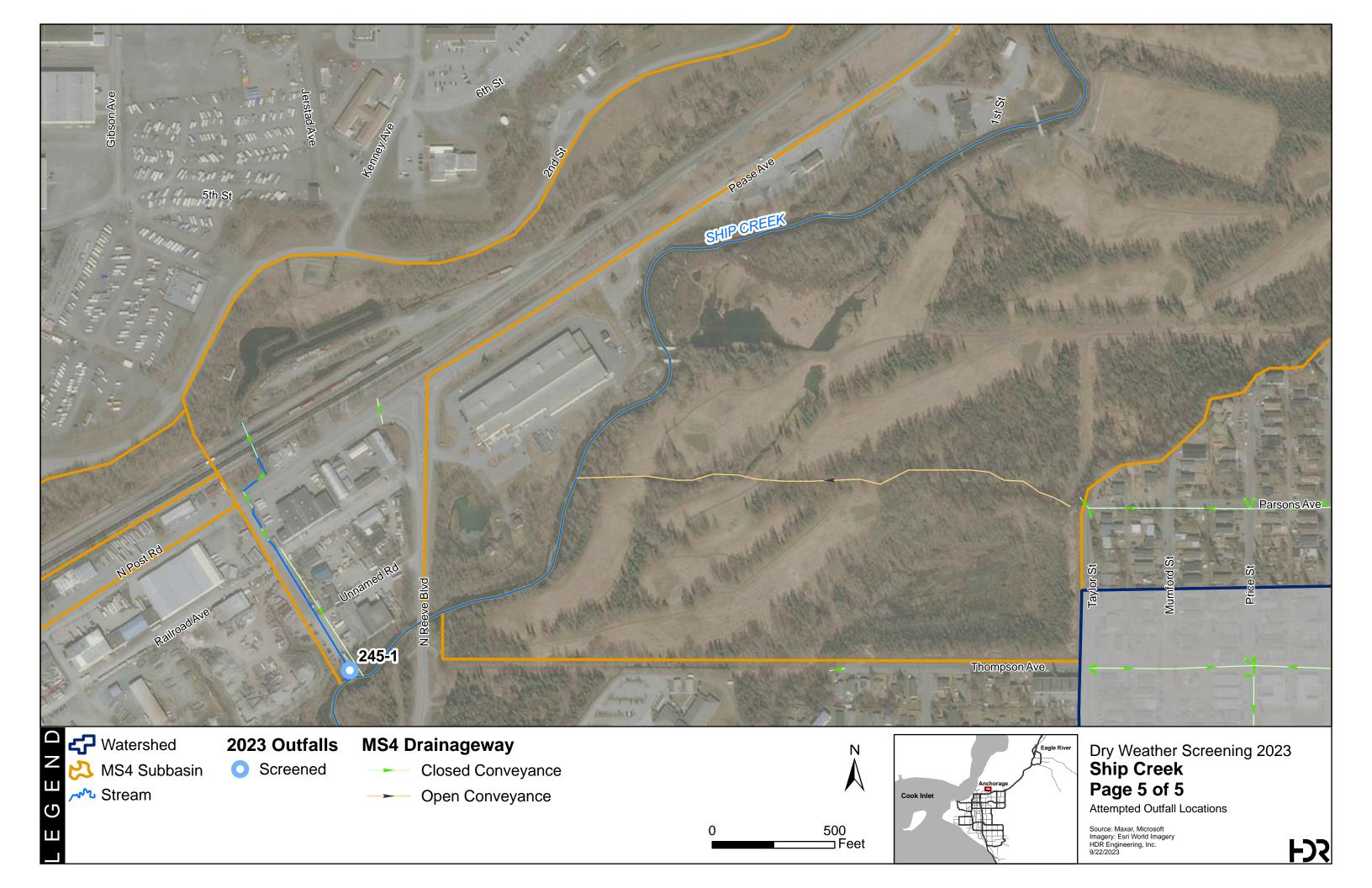












Appendix C Field Data Forms



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Watershed:	CAMP.	Out	fall Number: 00	There is a super
Part 1. General Inf	ormation.	· Z · Koma v J	gargar — ar ar galene i e-en d é-di sarrah Melloura - ar a sal	run - Game Laurengelie und mande Ushlod Audmidschafen
1. Date 00/2	26/23	Time	50 AM.	roement - a and - Mile
	aiABIJC.		analyses conducted by	AB.
3. Time since last ra	in event	nours Pless than 4	8 hours 06/25/23	@4Am.
4. Size of last rain ev	vent O·O inches		a regard - March III pel d'Agric Dia	
Part 2. Visual Obse	ervations	CMP	3 glu 30 361 3 - 136 - 137 -	BOTTOM CAROLL
6. End of pipe diame	eter18"		n: 900D FAIR	COPRODED.
8. Photographs (inc	lude camera name/#)	IPAD.		the state of the s
			LOWING.	
10. Water flowing fr	rom end of pipe? No [☐ Yes If yes, depth o	of water in end of pipe	TII SEDIMENT
If No. take photograp	phs of outfall and record any	pertinent observations in c	omments. If Yes. continue.	Albert Hope of 2
		72	The public of the second of	
	ging water exhibit any of the		and the second second	A STATE OF A PERSON OF THE PROPERTY OF THE PRO
	Yes Color? □ Cl			
Floatables? None	Moving oily sheen	Surface scum ☐ Soapy	suds Debris Othe	er (describe)
	DEAD GRASSE			La Hyar
Part 3. Field Analys	ses	a completico e aria holati. Arted Colo II sa mares filor	e legt my tot se sellett. Li rolevieu televisies	Samuel of Armington Long (1994) from hear of a share man one closed in
i.				
	gal/min OR □ Low			
15. Previous observa	tions of baseline dry weathe	er flow? NO TIST	DRICAL DATA.	Carly I Million Carl Pulm 40
16. Is an illicit discha	arge suspected at the outfal	I? ƊNo □ Yes	angele an agreement en grand an en visit en vis En visit en	n a contra yelek ji na a kwa kwa kwa kwa ma Malandi kina alika a kaji la ilia ili kwilika a Al
	t outfall. If Yes, continue. De	and of the business of the con-		comments.
17. Water Quality A	nalyses Dup	licate sample collected?	INo □Yes N/A	
Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold
рН	units	units	units	≤ 4.0 or ≥ 9.0
Total chlorine	mg/L	mg/L	.mg/L	≥ 1.0 mg/L
Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Total copper	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Total phenols	mg/L	mg/L	mg/L	≥ 0.5 mg/L
Turbidity	NTU	NTU	NTU	≥ 250 NTU

Part 4. Comments

WEATHER: OVER CAST. PUST-LINE 3/4 UP PIPE. OUT FALLS TO POND, POND MAY CONTRIBUTE TO PUST LINE

Revised January 2021

Watershed:		<u> </u>		
Part 1. General Info	ormation.			a tradition for the make restaura
1. Date 00/2	6/23	Time	15	
2. Field CrewA			ty analyses conducted by	Je
	n event □ More than	48 hours Less than	48 hours 00/25/2	304 AM
	ent <u>0-0 /</u> inche			orang Agenta and Antiques
Part 2. Visual Obser	rvations	21 12 900 22 300	direct constitution was seen	A the second of the man death of
6. End of pipe diame	ter 18"	7. Structural Conditi	on: Good, HOPE so	Hwelled
		ipad		
	TENDORY - 111 TO SIR RC (28)	m? □ No ☑ Yes	2 3 3 1 1 1 2 2 2 2 7 7 1 1 1 1 1 1 1 1 1 1 1	er Jakov, Perneholgus (1996) resingesitet avanste marke
10 Water flowing fr	om and of pine?	o 図 Yes If yes, depth	of water in and of nine	was all one
		a fact and fill research of the Wheel and the South State of the		
If No, take photograp	hs of outfall and record	d any pertinent observations in	comments. If Yes, continue	
11. Does the discharg	ing water exhibit any c	of the following (if yes, describe		Constitute of the constant formula of the construction of the constant formula of the constant
and silettate direct	r Bantorija i rekali -	and become and a few full com-	e in comments):	Colored
Odors? ⊠No □Y	'es Color?	☑ Cloudy/Muddy	e in comments): Clarity?	
Odors? ⊠No □Y	'es Color?	and become and a few full com-	e in comments): Clarity?	
Odors? ⊠No □Y Floatables? ☑ None	es Color? ☐ Moving oily shee	☑ Cloudy/Muddy	e in comments): Clarity?	er (describe)
Odors? ⊠ No □ Y Floatables? ☑ None	Tes Color? ☐ Moving oily shee un agae	☑/Clear □ Cloudy/Muddy n □ Surface scum □ Soap	e in comments): Clarity?	er (describe)
Odors? 図 No 口 Y Floatables? Ø None 12. Vegetation <u>Bro</u> Part 3. Field Analys	es Color? ☐ Moving oily shee ☐ Agae	☑ Clear ☐ Cloudy/Muddy n ☐ Surface scum ☐ Soap 13. Biology	e in comments): Clarity?	er (describe)
Odors? No Y Floatables? None 12. Vegetation 6 Part 3. Field Analys 14. Flow	es Color? Moving oily shee مر علومه es gal/min OR 🗆 L	☑/Clear □ Cloudy/Muddy n □ Surface scum □ Soap 13. Biology ow □ Medium □ High	e in comments): Clarity? ☑ Clear □ y suds □ Debris □ Oth	er (describe)
Odors? No Y Floatables? None 12. Vegetation 6 Part 3. Field Analys 14. Flow	es Color? Moving oily shee مر علومه es gal/min OR 🗆 L	☑ Clear ☐ Cloudy/Muddy n ☐ Surface scum ☐ Soap 13. Biology	e in comments): Clarity? ☑ Clear □ y suds □ Debris □ Oth	er (describe)
Odors? No Y Floatables? None 12. Vegetation 6 Part 3. Field Analys 14. Flow 7 15. Previous observat	es Color? Moving oily shee مر ماورد es gal/min OR □ L cions of baseline dry we	☑/Clear □ Cloudy/Muddy n □ Surface scum □ Soap 13. Biology ow □ Medium □ High	e in comments): Clarity? ☑ Clear □ y suds □ Debris □ Oth	er (describe)
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Odors? No Y Floatables? None 12. Vegetation Brown Part 3. Field Analys 14. Flow The service of the service o	Tes Color? Moving oily shee agae gal/min OR Lations of baseline dry we arge suspected at the outfall. If Yes, continu	☑Clear □ Cloudy/Muddy n □ Surface scum □ Soap 13. Biology ow □ Medium □ High eather flow? <u>2019 €1 m</u> utfall? ☑ No □ Yes	e in comments): Clarity? ©Clear □ y suds □ Debris □ Oth PLED ¬ NO Excentions in	er (describe)
Odors? No Y Floatables? None 12. Vegetation 6 Part 3. Field Analys 14. Flow 7 15. Previous observat 16. Is an illicit discha If No, proceed to next	Tes Color? Moving oily shee agae gal/min OR Lations of baseline dry we arge suspected at the outfall. If Yes, continu	☑Clear □ Cloudy/Muddy n □ Surface scum □ Soap 13. Biology ow □ Medium □ High eather flow? <u> </u>	e in comments): Clarity? ©Clear □ y suds □ Debris □ Oth PLED ¬ NO Excentions in	er (describe) CEE DANCES. n comments. Program Threshold
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Odors? No Y Floatables? None 12. Vegetation 6 Part 3. Field Analys 14. Flow 7 15. Previous observat 16. Is an illicit discha If No, proceed to next 17. Water Quality Ar Parameter pH Total chlorine	res Color? Moving oily shee agae gal/min OR Lagrage tions of baseline dry was rige suspected at the off outfall. If Yes, continuenalyses Primary Sample 1.8 ur mi	Clear Cloudy/Muddy Cloudy/Cloudy Cl	clarity?	er (describe) CEEDANCES. n comments. Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L
Odors? No Y Floatables? None 12. Vegetation 6 Part 3. Field Analys 14. Flow 7 15. Previous observat 16. Is an illicit discha If No, proceed to next 17. Water Quality Ar Parameter pH Total chlorine Detergents	res Color? Moving oily shee agae es gal/min OR L cions of baseline dry we arge suspected at the o coutfall. If Yes, continue nalyses Primary Sample 1.8 ur mi	Clear Cloudy/Muddy Clear Cloudy/Cloudy Clear Cloudy/Muddy Clear Cloudy/Cloudy Cloud	clarity?	er (describe) CECIMINATION COmments. Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L ≥ 1.0 mg/L
Odors? No Y Floatables? None 12. Vegetation 6 Part 3. Field Analys 14. Flow 7 15. Previous observat 16. Is an illicit discha If No, proceed to next 17. Water Quality Ar Parameter pH Total chlorine Detergents Total copper	res Color? Moving oily shee agae gal/min OR L cions of baseline dry we arge suspected at the of coutfall. If Yes, continue nalyses Primary Sample 1.8 ur mi	Clear Cloudy/Muddy Surface scum Soap 13. Biology 13. Biology Simple sample Soap 14. Biology Simple sample Soap 15. Biology Simple sample sample Soap Simple sample sample sample Soap Simple sample sampl	Clarity?	er (describe) CEC DINCES. n comments. Program Threshold $\leq 4.0 \text{ or } \geq 9.0$ $\geq 1.0 \text{ mg/L}$ $\geq 1.0 \text{ mg/L}$ $\geq 1.0 \text{ mg/L}$
Odors? No Y Floatables? None 12. Vegetation 6 Part 3. Field Analys 14. Flow 7 15. Previous observat 16. Is an illicit discha If No, proceed to next 17. Water Quality Ar Parameter pH Total chlorine Detergents	res Color? Moving oily shee agae gal/min OR L cions of baseline dry we arge suspected at the of coutfall. If Yes, continue nalyses Primary Sample 1.8 ur mi	Clear Cloudy/Muddy Clear Cloudy/Cloudy Clear Cloudy/Muddy Clear Cloudy/Cloudy Cloud	clarity?	er (describe) CECIMINATION COmments. Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L ≥ 1.0 mg/L

Part 4. Comments

weather - overcast

Good defined

Municipality of Anchorage APDES Monitoring Program

Part 1. General Info	rmation.	OWEGHAD		garanga katawa ya Garanga Ingaliya katawa 19 Mata	
L. Date 00/15/	2023	Time 9:	45		
2. Field Crew _ KC			/ analyses conducted by	KG	-Tri
	n event 🛮 More than 48 h		48 hours 6/13/23 3:001		
			Charles of Acros L. O'vieta	market for the Alberta School	
i. Size of last rain eve	ent0,23inches	5. Measured at weather	station Ted Stevens	TAIL PHIPPORT	
Part 2. Visual Obser	vations				
5. End of pipe diame	ter30 INCH	7. Structural Condition	on GOOD, CMP	w/ grate and coll	20
			· · · · · · · · · · · · · · · · · · ·	in seano di re seli na	Jan 1
	ude camera name/#)	/1	physique na cano. c	and the state of the state of	-
Suitable for sampli	ing under DWS Program? I	□ No 🌣 Yes <u>Gw in t</u>	iltration suspected.	a refin in the same of	
10. Water flowing fro	om end of pipe? 🗆 No 🛭 🖟	Yes If yes, depth	of water in end of pipe	LINCH	
	hs of outfall and record any		comments. If Yes, continue.	Mattern Clebrain on Ri	
in the last of the	ing water exhibit any of the		and how an illnear It far		
Odors? □No □Y	es Color? DCle	ear 🗆 Cloudy/Muddy	Clarity? ☐Clear ☐	Colored	
Floatables?	☐ Moving oily sheen ☐	☐ Surface scum ☐ Soapy	suds □ Debris □ Oth		
Floatables? None	Moving oily sheen D	Surface scum A Soapy	suds Debris Doth		
Floatables? None	ME, GRN HOSSIN (Surface scum A Soapy OLUTE 13. Biology	suds Debris Oth		
Floatables? None 12. Vegetation Soc Part 3. Field Analyse	ME GRN HOTSELANS	Surface scum A Soapy OLUPP 13. Biology	suds Debris Doth		
12. Vegetation Soc Part 3. Field Analyse	ME, GRN HOTSIN (Horsetals es KG, 918123	OLLAY 13. Biology	suds Debris Doth		
Part 3. Field Analyse 14. Flow	ME, AFN HOTSEN (HOTSELANS ES 14G, 9/18/23 gal/min OR □ Low	13. Biology	MONE MONE MARKET THE PROPERTY OF THE PROPERT		
Part 3. Field Analyse 14. Flow	ME, GRN HOTSIN (Horsetals es KG, 918123	13. Biology	MONE MONE MARKET THE PROPERTY OF THE PROPERT		
Part 3. Field Analyse 14. Flow 15. Previous observation	ME, AFN HOTSEN (HOTSELANS ES 14G, 9/18/23 gal/min OR □ Low	AMedium □ High	MONE MONE MARKET THE PROPERTY OF THE PROPERT		
Part 3. Field Analyse 14. Flow 15. Previous observation 16. Is an illicit dischar	es KG, YIBI23 gal/min OR Low ions of baseline dry weather rge suspected at the outfall	13. Biology AMedium	MONE	er (describe)	
Part 3. Field Analyse 14. Flow 15. Previous observation 16. Is an illicit discharged for the proceed to next	es KG, VIBLES gal/min OR Low ions of baseline dry weather rge suspected at the outfall outfall. If Yes, continue. Des	13. Biology Almedium	NONE	er (describe)	
Part 3. Field Analyse 14. Flow 15. Previous observation 16. Is an illicit discharged for the proceed to next	es KG, VIBLES gal/min OR Low ions of baseline dry weather rge suspected at the outfall outfall. If Yes, continue. Des	13. Biology AMedium	NONE	er (describe)	
Part 3. Field Analyse 14. Flow 15. Previous observation 16. Is an illicit discharged for the proceed to next	es KG, VIBLES gal/min OR Low ions of baseline dry weather rge suspected at the outfall outfall. If Yes, continue. Des	13. Biology Almedium	NONE	er (describe)	
Part 3. Field Analyse 14. Flow 15. Previous observation 16. Is an illicit dischart 17. Water Quality An	gal/min OR Low ions of baseline dry weather ge suspected at the outfall outfall. If Yes, continue. Denalyses Dupl	13. Biology Almedium	nont Nont toring recommendations in	er (describe) comments. Program Threshold ≤ 4.0 or ≥ 9.0	
2. Vegetation Soft Part 3. Field Analyse 4. Flow 5. Previous observation 6. Is an illicit discharate 7. Water Quality Analyse Parameter pH Total chlorine	gal/min OR Low ions of baseline dry weather rge suspected at the outfall outfall. If Yes, continue. De nalyses Primary Sample 7.0 units mg/L	13. Biology Medium	toring recommendations in PNO Pes N/A Equipment Blank units mg/L	er (describe) comments. Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L	
Part 3. Field Analyse 1.4. Flow 1.5. Previous observation 1.6. Is an illicit dischart 1.7. Water Quality Analyse 1.8. Parameter 1.9. Parameter 1.9. Ph	gal/min OR Low ions of baseline dry weather ge suspected at the outfall outfall. If Yes, continue. Denote the primary Sample Primary Sample 7-0 units mg/L mg/L	13. Biology Almedium	toring recommendations in PNO Pes N/A Equipment Blank units mg/L mg/L	er (describe) n comments. Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L ≥ 1.0 mg/L	
Part 3. Field Analyse 14. Flow 15. Previous observation 16. Is an illicit discharation 17. Water Quality Analyse Parameter pH Total chlorine	gal/min OR Low ions of baseline dry weather rge suspected at the outfall outfall. If Yes, continue. De nalyses Primary Sample 7.0 units mg/L	13. Biology Medium	toring recommendations in PNO Pes N/A Equipment Blank units mg/L	er (describe) Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L ≥ 1.0 mg/L ≥ 1.0 mg/L	
Part 3. Field Analyse 1.4. Flow 1.5. Previous observation 1.6. Is an illicit dischart 1.7. Water Quality Analyse 1.8. Parameter 1.9. Parameter 1.9. Detergents	gal/min OR Low ions of baseline dry weather ge suspected at the outfall outfall. If Yes, continue. Denote the primary Sample Primary Sample 7-0 units mg/L mg/L	13. Biology Almedium	toring recommendations in PNO Pes N/A Equipment Blank units mg/L mg/L	er (describe) n comments. Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L ≥ 1.0 mg/L	

CMP - FALLEN OF GRATE + COLLAR

GW INF SUSPECTED

FAMEN LEAVES MEDUND COLLAR 1/2 INCH DIOD SEDIMENT IN PIPE

RUST LINE 3 INCHES Revised January 2021 BROWN COUR

Watershed: <u>Cam</u>	obell	Out	fall Number: 285-1	ald a halle and by refer to
Part 1. General Info	ormation.	. ABD 15 VI	g, Gardin e megane grafi Biradin a Latameta Just	a modil natro de mino di 13
1. Date 6/9/2	3	Time <u>1345</u>		
2. Field Crew KG	CX		analyses conducted by	
	n event 🗵 More than 48 h	ours 🗆 Less than 4	48 hours 6/16/23 13	3:00
4. Size of last rain ev	ent <u>6.04</u> inches	5. Measured at weather		go William all and a second
Part 2. Visual Obse	rvations	ado para la como de la	v angressale sp. m	THE WALK SHEET AND PROPERTY.
6. End of pipe diame	ter (2"	7. Structural Condition	on: Plastic, Far	The file of the control of the contr
			,	sportantian di Anie
1,140,160,160,160	ude camera name/#) <u>i Pod</u>	National Control	Name of the second section of the second	TELEVISION OF THE PROPERTY OF SERVI
9. Suitable for sampl	ing under DWS Program?	□ No ☑ Yes if flowir	ng	orti o ngalajilitan linger
	om end of pipe? ☐ No 🏻 🗓	Yes If yes, depth	of water in end of pipe \mathscr{L}^{1}	-bockwater
	hs of outfall and record any		Annual Programme and American	
	ing water exhibit any of the		A - ARIVE TO SERVED	
				(
Odors? 🗹 No 🗆 Y	'es Color? ☑ Cle	ear Cloudy/Muddy	Clarity? ☐ Clear ☐	Colored Slight yellow
Floatables? ☐ None	☑ Moving oily sheen □	☐ Surface scum ☐ Soapy	suds □ Debris □ Oth	er (describe)
12. Vegetation ∆ি⊲	nge/brown Algoe p	reapate 13. Biology	None	- Y beg
Part 3. Field Analys		4/18/23	ner e a med kela ker e land.	<u>1986 billion de de la companya del companya del companya de la co</u>
	gal/min OR 🖾 Low		hoy get in the political	
15. Previous observat	tions of baseline dry weathe	er flow? 2014 Minitore	ed. 4 15 - Hirom andersola	
16. Is an illicit discha	rge suspected at the outfal	I? ☑ No ☐ Yes		garana ya masani mwa 1922. Pirintana ali Alio ali Mili.
	land the same and and		toring recommendations in	comments
	outfall. If Yes, continue. De	estate and the result for ser-	n - Promise della discon-	i comments.
17. Water Quality A	nalyses Dup	licate sample collected? [□No □Yes N/A	Haga John - Tel 941 al "Colla
Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold
рН	units	units	units	≤ 4.0 or ≥ 9.0
Total chlorine	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L
T	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Total copper	0/ -			
Total copper Total phenols	mg/L	mg/L	mg/L	≥ 0.5 mg/L

Part 4. Comments - Vegetation over	top/ front of	Pipe	makeo	condition	assessment
difficult.		rani.		er period and a second	rain yan bershiri wan birongalor yan

		Municipality	of Anchorage APDES	Monitoring Program	09/18/23 XG
Waters	hed: Camp	bell	Out	fall Number: <u>285 – 2</u>	HDR 15
Part 1.	General Info	ormation.	- Interest		35-1 Bapin, south side o
1. Date	6/19	1/23	Time <u>1335</u>		No "open" drainage connect Force not included in HI
2. Field	CrewK	G,CK	Water quality	analyses conducted by	priority.
3. Time	e since last rai	in event 🏻 More than 48 h	ours 🗆 Less than 4	18 hours 6/16/23	13:00
4. Size	of last rain ev	vent 0.04 inches	5. Measured at weather	station TSIA	A STATE OF THE STA
Part 2.	Visual Obse	rvations	And the second second	gaje sa seja na sa saja ng jara	A 64 - 1 Toy 1 million for all and a second second
6. End	of pipe diame	eter 24"	7. Structural Condition	n: HDPE w/collar	ager et er ekkenneder krije. De ekkenneder et er ekkenneder krije
		ude camera name/#) iPo			A - gargayge i gliophy - Ass
				2011 - 11 - 10 10 mm	are also were proportioned in
The state of		ling under DWS Program?	□ No □ Yes <u>17 TIGMIN</u>		
10. Wa	iter flowing fr	om end of pipe? 🗆 No 🛚	Yes If yes, depth	of water in end of pipe 6	- back watered
If No, ta	ike photograp	hs of outfall and record any		comments. If Yes, continue.	Letter bright b
11. Does	s the discharg	ging water exhibit any of the	following (if yes, describe	in comments):	
Odors?	S. Monte Co. S.	The second section of the second section of the section of the second section of the se	ear Cloudy/Muddy	e sala evidan kalandar	Colored
Floatabl	les? □ None	e ☐ Moving oily sheen ☐	☐ Surface scum ☐ Soapy	suds ☑ Debris ☐ Oth	er (describe)
	^	een algae		trash W	
	Field Analys	J		and the second second	Selve and the company of the
14. Flo	w	gal/min OR ☑ Low	□ Medium □ High	ov mulic reserve	
15. Prev	ious observat	tions of baseline dry weathe	er flow? As historical	l data	and a stranger of selection in
16. Is a	n illicit discha	arge suspected at the outfall	I? ☑ No □ Yes	gest this glain at a	
If No, pr	roceed to next	t outfall. If Yes, continue. De	escribe any additional moni	toring recommendations in	comments.
17. Wa	ater Quality A	nalyses Dup	licate sample collected?]No □Yes N/A	
Par	rameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold
pH		units	units	units	≤ 4.0 or ≥ 9.0
	tal chlorine	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Det	tergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L

Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold
рН	units	units	units	≤ 4.0 or ≥ 9.0
Total chlorine	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Total copper	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Total phenols	mg/L	mg/L	mg/L	≥ 0.5 mg/L
Turbidity	NTU	NTU	NTU	≥ 250 NTU

Part 4. Comments Trays in Bs channel Sediment built up in pipe

MOA GIS does not whow "open drainage" from this outfoll. HDR named this sike 285-2-HDR in 2023.

	WA	Outf	all Number:	403-1
Part 1. General Info	rmation.	www.si ⁶ oilea	tell record agency	ali mai ang kemaayan di 1900 da 1916. Mga Malanda ang kada ang balangan
1. Date 00/2	6/23	Time	-0 AM.	
2. Field Crew <u>FG</u>		Water quality	analyses conducted by	AB.
3. Time since last rain	n event		8 hours 06/25/23	
1. Size of last rain eve	ent <u>0-01</u> inches			par releficiality "visiting
Part 2. Visual Obser	vations	Crance - SW togstratespa - 1 x	COLCAP	SMASHED IN ON SELF
5. End of pipe diame	ter UNKNONN.	7. Structural Condition	n: POOR	and the series where the
	ıde camera name/#)			
	ing under DWS Program?	- No. 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Transfer 1840 representation	HER I CAN IN THE PERSON OF THE
10. Water flowing fro	om end of pipe? 🗆 No 🏃	Nes If yes, depth o	f water in end of pipe	MEASURED DS POO BACK WATERED.
f No, take photograpi	hs of outfall and record any	pertinent observations in c	omments. If Yes, continue.	
L1. Does the dischargi	ng water exhibit any of the	following (if yes, describe i	n comments):	The residence was a second to
odarca Dilla DV	colora Male		4	
JUUIS! LIMNO LI Y	es Color Lancie	ear 🗀 Cloudy/Muddy	Clarity? KI/Clear LI	Colored
			Clarity? ☑ Clear ☐	
Floatables?	☐ Moving oily sheen ☐	☐ Surface scum ☐ Soapy	suds □ Debris 🗷 Otho	er (describe) LOTS OF CUF
Floatables?		☐ Surface scum ☐ Soapy	suds □ Debris 🗷 Otho	
Floatables?	☐ Moving oily sheen ☐	☐ Surface scum ☐ Soapy	suds □ Debris Dotho	
Floatables? None 12. Vegetation Part 3. Field Analyse	☐ Moving oily sheen ☐ OR OF ORANGE A es	Surface scum ☐ Soapy	suds □ Debris Dotho	
Floatables? None 12. Vegetation Part 3. Field Analyse 14. Flow	☐ Moving oily sheen ☐ OR OF ORANGE A es gal/min OR ☐ Low	Surface scum □ Soapy 13. Biology Medium □ High	suds □ Debris DOtho	er (describe) LOTS OF CUF
Floatables? None 12. Vegetation Part 3. Field Analyse 14. Flow 15. Previous observation	☐ Moving oily sheen ☐ OF OFANGE A es gal/min OR ☐ Low ions of baseline dry weathe	Surface scum	suds □ Debris)©Othe	er (describe) LOTS OF CUF
Floatables? None 12. Vegetation Part 3. Field Analyse 14. Flow 15. Previous observation	☐ Moving oily sheen ☐ OR OF ORANGE A es gal/min OR ☐ Low	Surface scum	suds □ Debris DOtho	er (describe) LOTS OF CUF
Floatables? None 12. Vegetation Part 3. Field Analyse 14. Flow 15. Previous observation 16. Is an illicit dischar	☐ Moving oily sheen ☐ OF OFANGE A es gal/min OR ☐ Low ions of baseline dry weathe	Surface scum Soapy 13. Biology Medium High r flow? Yes	suds □ Debris)©Othe	er (describe) LOTS OF CUF
Floatables? None 12. Vegetation Part 3. Field Analyse 14. Flow 15. Previous observation 16. Is an illicit dischall the proceed to next	☐ Moving oily sheen ☐ OF OFANGE A es gal/min OR ☐ Low ions of baseline dry weather rge suspected at the outfall	Surface scum Soapy 13. Biology Medium High r flow? Yes scribe any additional monit	suds Debris Othe	comments.
Part 3. Field Analyse 14. Flow 15. Previous observation 16. Is an illicit dischart 17. Water Quality An	☐ Moving oily sheen ☐ OF OF ANAE es gal/min OR ☐ Low ions of baseline dry weather rge suspected at the outfall outfall. If Yes, continue. Des	Surface scum Soapy 13. Biology Medium High r flow? Yes scribe any additional monit	oring recommendations in	comments.
Floatables? None 12. Vegetation Part 3. Field Analyse 14. Flow 15. Previous observation 16. Is an illicit dischall the proceed to next	☐ Moving oily sheen ☐ OF O	Surface scum Soapy 13. Biology Medium High r flow? Yes scribe any additional monit icate sample collected?	suds Debris Othe	comments.
Part 3. Field Analyse 14. Flow 15. Previous observation 16. Is an illicit dischart 17. Water Quality Analyse 17. Water Quality Analyse	☐ Moving oily sheen ☐ OF O	Surface scum Soapy 13. Biology Medium High r flow? No Yes scribe any additional monit icate sample collected? Duplicate Sample	oring recommendations in NO	comments.
Part 3. Field Analyse 1.4. Flow 1.5. Previous observation 1.6. Is an illicit dischart f No, proceed to next 1.7. Water Quality Analyse 1.8 Parameter 1.9 Ph	□ Moving oily sheen □ OF OF ANGE es gal/min OR □ Low ions of baseline dry weather rge suspected at the outfall outfall. If Yes, continue. Declar allyses Dupl Primary Sample 7.5 units	Surface scum Soapy 13. Biology Medium High r flow? Yes scribe any additional monit icate sample collected? Duplicate Sample units	oring recommendations in No Yes NA Equipment Blank units	comments. Program Threshold ≤ 4.0 or ≥ 9.0
Part 3. Field Analyse 1.2. Vegetation 1.2. Vegetation 1.3. Field Analyse 1.4. Flow 1.5. Previous observation 1.6. Is an illicit discharate 1.7. Water Quality Analyse 1.8. Parameter 1.9. Parameter	□ Moving oily sheen □ OF OF ANAE es gal/min OR □ Low ions of baseline dry weather rge suspected at the outfall outfall. If Yes, continue. Declar alyses Dupl Primary Sample 7:5 units mg/L	Surface scum Soapy 13. Biology 14. Medium High 15. High 16. Flow? 17. Who Yes 18. Scribe any additional monit icate sample collected? 18. Duplicate Sample 19. Units 19. Medium High 19. H	oring recommendations in No	comments. Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L
Floatables? None 12. Vegetation Part 3. Field Analyse 14. Flow 15. Previous observation 16. Is an illicit dischart 17. Water Quality And Parameter pH Total chlorine Detergents	□ Moving oily sheen □ OS OF OFANGE A es gal/min OR □ Low ions of baseline dry weather rge suspected at the outfall outfall. If Yes, continue. Declar alyses Dupl Primary Sample 7.5 units mg/L mg/L	Surface scum Soapy 13. Biology 13. Biology Medium High r flow? Plow Yes scribe any additional monit icate sample collected? Duplicate Sample units mg/L mg/L	oring recommendations in No Yes MA Equipment Blank units mg/L mg/L	comments. Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L ≥ 1.0 mg/L

Part 4. Comments

WEATHER: OVER CAST PLASTIC COLLAR FLOWS INTO LARGE STREAM

Municipality of Anchorage APDES Monitoring Program

16,09 /18/23

Watershed:	PB. CPEEK	Out	fall Number:	445
Part 1. General Info	ormation.	Pierse Arts	galan ayah ala - era Me-ing Lablah alabah	a na an ing pangkatan sa ing mga an ing Kabupatan sa ing pangkatan sa i
1. Date 66 2	0/2023	Time q ·	22-AM.	
2. Field Crew K		Water quality	analyses conducted by	AB
3. Time since last rai	n event	ours Dess than	18 hours \ \(\rangle \rangle 25 \rangle 2	23 @4 AM
4. Size of last rain ev	rent <u>0.01</u> inches	5. Measured at weather		and the state of t
Part 2. Visual Obse		NO AR NO A TO-	The party secondary and the	- serie ambir - o serie - o se
6. End of pipe diame	eter 12 INCH	7. Structural Condition	on: POOP	e i prima prima prima prima della br>Colombia
	ude camera name/#)	- A		
	ling under DWS Program?		SIMICAG	
	under a difference un all	A		
10. Water flowing fr	om end of pipe? 🗆 No 🍹	Yes If yes, depth	of water in end of pipe	INC+.
If No, take photograp	hs of outfall and record any	pertinent observations in	comments. If Yes, continue	regignasii Nanty algeria d
11. Does the discharg	ing water exhibit any of the	following (if yes, describe	in comments):	
Harries Astronomy		The second secon		Colored Sciattzy Bran
Odors? △No □Y	with di			
Floatables? None	Moving oily sheen	☑ Surface scum ☐ Soapy	suds 🗆 Debris 🗆 Oth	er (describe)
12. Vegetation	ALL GRASSES	13. Biology	NO	dele de
Part 3. Field Analys	of Dok unless the wal and more	To be seen as a construction of the constructi		ville a production to the second
4 4	3m and the state of a			rky, h musikarye er boo er b
	gal/min OR 🖾 Low		by the formation of the last	
15. Previous observat	tions of baseline dry weathe	er flow? 2014 EXA	MINED NOT	SAMPLED.
	arge suspected at the outfall	- Filling - more Mind of a climate who	이 뭐 없는 것이 되어졌다면 이 없는 그녀, 작은이었다는 것	sat de estado a gual estado fue que nose funda disenta a cióncia de con-
To de local de la			ranaliskihi reaktaisa	
If No, proceed to next	t outfall. If Yes, continue. De	scribe any additional moni	toring recommendations ir	comments.
17. Water Quality A	nalyses Dup	licate sample collected?	□ No □ Yes NA·	
Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold
рН	units	units	units	≤ 4.0 or ≥ 9.0
Total chlorine	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Total copper	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Total phenols	mg/L	mg/L	mg/L	≥ 0.5 mg/L
Turbidity	NTU	NTU	NTU	≥ 250 NTU

Part 4. Comments

- . END OF PIPE EMBEDED | TUCKED IN UNDER CIPASS.
- · DRAINAGE MAR KER CBLUES
- · DS SOME ORANGE FLOCULANT.
- · FLOWS DIRECTLY INTO MAIN CHANNEZ.

Municipality of Anchorage APDES Monitoring Program

14.6 11.5				
art 1. General Info	ormation.	- 1931 M 571	ng garanto presigente. Na arte em la comunicación de	Hari And Land Chine
Date	9/23	Time 1300)	
Field Crew			analyses conducted by K	G
	in event 🛮 More than 48 h	200000000000000000000000000000000000000	18 hours 6/16/23	
Size of last rain ev	vent <u>o o u</u> inches	5. Measured at weather	kareja uz Arrigija kaj le ili sus	Conflict control
art 2. Visual Obse	rvations	A series of the	Commission of the Williams	ar and partition as
End of pipe diame	eter 48".	7. Structural Conditio	n: Good : CMP	
	ude camera name/#)			ar sengentere on
			Halam S. Isl	and the contraction of the contr
	ling under DWS Program?			A CARDON CONTRACTOR
). Water flowing fr	om end of pipe? 🗆 No 🏻 🗓	Yes If yes, depth of	of water in end of pipe $\frac{\lambda}{\lambda}$	
No, take photograp	ohs of outfall and record any	pertinent observations in c	comments. If Yes, continue.	
1. Does the dischard	ging water exhibit any of the	e following (if ves. describe	in comments):	
	A complete the state of the sta		The same to faithful house	e parellen e le cula
dored later in	/ac Color? IVI CI			
dors? ဩ No □ \			Clarity? ☑ Clear □	
oatables? □ None	e ☐ Moving oily sheen [☐ Surface scum ☐ Soapy	suds □ Debris □ Oth	
oatables? □ None	e ☐ Moving oily sheen [☐ Surface scum ☐ Soapy	suds □ Debris □ Oth	
oatables? ☐ None	e Moving oily sheen [ange/brown Algae	☐ Surface scum ☐ Soapy in DS 13. Biology	suds □ Debris □ Oth	
oatables? □ None 2. Vegetation ① art 3. Field Analys	Moving oily sheen I ange/brown Algae ses	Surface scum Soapy in DS Chronel 13. Biology	suds □ Debris □ Oth	
oatables? None None Section Graphs None e □ Moving oily sheen I ange/brown Algae ses gal/min OR □ Low	Surface scum Soapy in DS Chronel Medium High	suds Debris Oth		
oatables? None None Section Graphs None Moving oily sheen I ange/brown Algae ses	Surface scum Soapy in DS Chronel Medium High	suds Debris Oth		
oatables? None None Vegetation Art 3. Field Analys Flow Previous observa	e □ Moving oily sheen I ange/brown Algae ses gal/min OR □ Low	Surface scum Soapy in DS 13. Biology Chronel Medium High High er flow? No historica	suds Debris Oth	
oatables? None None Vegetation The control of th	Besseline dry weather arge suspected at the outfal	Surface scum Soapy in DS 13. Biology Change 14 Medium High High High High High Yes	suds Debris Other	er (describe)
oatables? None None Vegetation Art 3. Field Analys Flow Previous observation Solution of the content of t	Be Moving oily sheen In Algae Sees gal/min ORLow Itions of baseline dry weather arge suspected at the outfall toutfall. If Yes, continue. De	Surface scum Soapy in DS 13. Biology Chronel High er flow? No historica I? No Pes escribe any additional monit	suds Debris Othe	er (describe)
oatables? None None Vegetation Art 3. Field Analys Flow Previous observation Solution of the content of t	Besseline dry weather arge suspected at the outfal	Surface scum Soapy in DS 13. Biology Chronel High er flow? No historica I? No Pes escribe any additional monit	suds Debris Othe	er (describe)
oatables? None None Vegetation Art 3. Field Analys Flow Previous observation Solution of the content of t	Bes gal/min OR Low tions of baseline dry weather arge suspected at the outfall toutfall. If Yes, continue. De nalyses Dup	Surface scum Soapy in DS 13. Biology Chronel High er flow? No historica I? No Pes escribe any additional monit	suds Debris Othe	comments. Program Threshold
oatables? None 2. Vegetation art 3. Field Analys 4. Flow 5. Previous observa 6. Is an illicit discha No, proceed to next 7. Water Quality A Parameter pH	many Sample Moving oily sheen Ange / brown Algae Ses gal/min OR □ Low tions of baseline dry weather arge suspected at the outfall toutfall. If Yes, continue. Definallyses Dup Primary Sample Units	Surface scum Soapy in DS 13. Biology Chronel 13. Biology High er flow? No historica I? No Yes escribe any additional monitalicate sample collected? Duplicate Sample units	suds Debris Othe	er (describe) comments. Program Threshold ≤ 4.0 or ≥ 9.0
oatables? None None Vegetation The proceed to next No, proceed to next Water Quality A Parameter pH Total chlorine	mayer brown Algae gal/min OR Low tions of baseline dry weather arge suspected at the outfall toutfall. If Yes, continue. De nalyses Dup Primary Sample Units mg/L	Surface scum Soapy N DS 13. Biology Chronel 13. Biology Medium High er flow? No historica I? No Yes escribe any additional monitalicate sample collected? Duplicate Sample units mg/L	suds Debris Othe	er (describe) comments. Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L
oatables? None 2. Vegetation art 3. Field Analys 4. Flow 5. Previous observa 6. Is an illicit discha No, proceed to nex 7. Water Quality A Parameter pH Total chlorine Detergents	many Sample Primary Sample Primary Sample mg/L mg/L mg/L	Surface scum Soapy in DS 13. Biology Chronel 13. Biology Medium High er flow? No historica I? No Yes escribe any additional monitalicate sample collected? Duplicate Sample units mg/L mg/L	toring recommendations in Single Squipment Blank Equipment Blank units mg/L mg/L	er (describe) comments. Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L ≥ 1.0 mg/L
oatables? None 2. Vegetation art 3. Field Analys 4. Flow 5. Previous observa 6. Is an illicit discha No, proceed to next 7. Water Quality A Parameter pH Total chlorine Detergents Total copper	gal/min OR Low tions of baseline dry weather arge suspected at the outfall toutfall. If Yes, continue. De nalyses Primary Sample Primary Sample mg/L mg/L mg/L	Surface scum Soapy in DS 13. Biology Change 13. Biology Medium High er flow? No historica Per flow? No Pes escribe any additional monitalicate sample collected? Duplicate Sample units mg/L mg/L mg/L	toring recommendations in Squipment Blank Equipment Blank units mg/L mg/L	er (describe) Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L ≥ 1.0 mg/L ≥ 1.0 mg/L
oatables? None 2. Vegetation art 3. Field Analys 4. Flow 5. Previous observa 6. Is an illicit discha No, proceed to nex 7. Water Quality A Parameter pH Total chlorine Detergents	many Sample Primary Sample Primary Sample mg/L mg/L mg/L	Surface scum Soapy in DS 13. Biology Chronel 13. Biology Medium High er flow? No historica I? No Yes escribe any additional monitalicate sample collected? Duplicate Sample units mg/L mg/L	toring recommendations in Single Squipment Blank Equipment Blank units mg/L mg/L	er (describe) comments. Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L ≥ 1.0 mg/L

Rust line 15 - Ift deep Soapy suds look Organic Some debris in DS Channel

Access from Brayton Dr + Alpenhorn

Wa	tershed:	AMP.	Out	fall Number:	0-93	
Par	t 1. General Info	ormation.	: 1 SOOM 1	grange are a solution of a six Const. The set 150 of the conflict	and the second of the second of	Anria Anria
1.	Date <u>V (0 /2 (</u>	0/73	Time	37 Am		
	Field Crew 40		Water quality	analyses conducted by _	AB	2021
3.	Time since last rai	n event	ours Dess than 4	18 hours 00/25/2	3 @ 4 m	
		ent 6-01 inches	5. Measured at weather	station TSIA	ा चुंद्रहो भगेत्री स्था को ग्रह्माता संस्थान	1 TSg
Par	t 2. Visual Obse	rvations	offetter man or man first the man	BAC	Y WATERED.	-
6.	End of pipe diame	ter8INCH	7. Structural Conditio	n: FAIR	90% SUBMI	RIET
		ude camera name/#)			. Object Springs	Mi a
		ing under DWS Program? 【				
						111.7
		om end of pipe? 🗆 No 💃			Edition of the Control Age Con-	
If N	o, take photograp	hs of outfall and record any	pertinent observations in o	comments. If Yes, continue	mine and year three countries	
11.	Does the discharg	ing water exhibit any of the	following (if yes, describe	in comments):		4, 4
Odd	ors? 🖾 No 🗆 Y	es Color? Cole	ear 🗆 Cloudy/Muddy	Clarity?	l Colored	1901
		Moving oily sheen				
		NO		그림을 하는 걸 때에 모든 그와 되었다면 하다.		
12.	vegetation	the holder of a more than term of	13. Biology	one in greater to be a sufficient	It is her not med with	- 6-1
Par	t 3. Field Analys	es la comité de la susse d'in				
14.	Flow	gal/min OR Low	☐ Medium ☐ High			
15.	Previous observat	ions of baseline dry weathe	rflow? NO HISTO	PICAL PECORD	ally referred by	
			The religious making the responsibility of			(nw)
16.	is an illicit discha	rge suspected at the outfall	r Jai/No Li Yes			
If N	o, proceed to next	outfall. If Yes, continue. De	scribe any additional moni	toring recommendations in	n comments.	
17.	Water Quality Ar	nalyses Dupl	icate sample collected?	No □Yes N/A.	cent amore special as-	4 4
	Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold	
	pН	units	units	units	≤ 4.0 or ≥ 9.0	
- 10	Total chlorine	mg/L	mg/L	mg/L	≥ 1.0 mg/L	5-1
	Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L	
	Total copper	mg/L	mg/L	mg/L	≥ 1.0 mg/L	la care
	Total phenols	mg/L	mg/L	mg/L	≥ 0.5 mg/L	
= 10	Turbidity	NTU	NTU	NTU	≥ 250 NTU	A.

Part 4. Comments

CAN ACCESS MA SLEEPING LADY CN.

WEATTHER OVER CAST.

Revised January 2021

Watershed:	mp	Out	fall Number: 490	95
Part 1. General Info	rmation.	400 JUL 400	and the second of the second	red or reduced to the
1. Date 0/2(g/	2013	Time 12:	13 nm	
2. Field Crew 16		Water quality	analyses conducted by	
3. Time since last rai	n event	nours 💹 Less than 4	48 hours 6/25/2023	24AM
4. Size of last rain ev	ent 0.01 inches	5. Measured at weather	station 751A	
Part 2. Visual Obser	vations	Carolina Cabban	Good	w preparations of the
6. End of pipe diame	ter_12'Inch	7. Structural Condition		halled w/ collan
8. Photographs (inclu	ude camera name/#)	PAD		the national and the second
9. Suitable for sampl	ing under DWS Program?	□ No ☐ Yes	Tacker Day a reide sa	illar gwydd ei Meitud hyn yr a
		Yes If yes, depth		1.5 mch
		y pertinent observations in o		
		e following (if yes, describe		artic per 113 en 115 canalo. La martina de 116 canalo.
Odors? ☑ No □ Y	- T	ear 🛱 Cloudy/Muddy		Colored tan
/		Surface scum		
	S. D. District H. Stell Code St. Physics Physics 12		요즘 시계 16 모든 모든 16 기계 기계 [1]	er (describe)
12. Vegetation O	NI-CN	13. Biology	Vo	A Dec A
Part 3. Field Analys	es e	maring a great trade in radi	againse optrædjatore	or and concept to the first the
14. Flow	gal/min OR \ Low	☐ Medium ☐ High	renat e libe agli i "Lare).	
	THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SE	er flow? no histori	rd data	
		Control to the control of the contro		are and the first transfer of
	rge suspected at the outfal	which become an out to be		
If No proceed to nevt	outfall. If Yes, continue. De	escribe any additional moni	toring recommendations in	comments.
ij ivo, proceed to next			INO □Yes N/A	
17. Water Quality Ar	nalyses Dup	licate sample collected? L	- 1.50 01/1	the party of the second
17. Water Quality Ar	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold
	Minida de Line en la	<u> </u>	filtra a ment folker See See	Program Threshold ≤ 4.0 or ≥ 9.0
17. Water Quality Ar	Primary Sample	Duplicate Sample	Equipment Blank	
17. Water Quality Ar Parameter pH	Primary Sample 7.7 units	Duplicate Sample units	Equipment Blank units	≤ 4.0 or ≥ 9.0
17. Water Quality Ar Parameter pH Total chlorine	Primary Sample units mg/L	Duplicate Sample units mg/L	Equipment Blank units mg/L	≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L
17. Water Quality Ar Parameter pH Total chlorine Detergents	Primary Sample units mg/L mg/L	Duplicate Sample units mg/L mg/L	Equipment Blank units mg/L mg/L	≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L ≥ 1.0 mg/L

Part 4. Comments

· Weather 15 Cloudy · outfall is best accessable via Marathan Circle

Municipality of Anchorage APDES Monitoring Program

Wa	atershed:	AMP	Out	fall Number: 52	9.1
Pa	rt 1. General Info	rmation.	necial as	The state of the s	en en el del maiore es sons en el combination de la combination de
1.	Date 00/20	0/2023	Time_13; C	7	I A le nomelle d'Al monett. E le tite
	Field Crew 66		Water quality	analyses conducted by) C
		n event	ours 🖾 Less than 4	18 hours 6/25/2023	a 4Am
			5. Measured at weather		engele, der odlimmen zi
	rt 2. Visual Obser	(0	. Carrier and the contract of	Carlo Della Carlo Della Della State	A THE STATE OF THE
			7. Structural Conditio	m. for CMD 1	He motel collector
			A	11. 10.17 CITIP CO	THE THEORY WITH THE
٥.	Cuitable for seventi	ide camera name/#)	□ No ☑ Yes	tento esta (as estas est	to a sufficient of the Roses
9.	Suitable for sampli	ing under Dws Programs	☐ Yes If yes, depth o	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	lais undres
					and mores,
If N	lo, take photograpl	hs of outfall and record any	pertinent observations in c	comments. If Yes, continue.	al galaine and malignand
		A	following (if yes, describe		
Od	ors? □ No	estishy color? Dick	ear 🗆 Cloudy/Muddy	Clarity? ☒ Clear □	Colored
Flo	atables? □ None	☐ Moving oily sheen ☐	☐ Surface scum ☐ Soapy	suds □ Debris □ Oth	er (describe)
12.	Vegetation <u>O</u>	alses in collar	13. Biology	S COURTO BY fish	Y? NA
Pa	rt 3. Field Analyse	es li reporte de la destrucción.	At fan - in henrowie Aligner () Grad-Soliu Ministralik (r. 1571).	<u>anga, sagan daga biliku.</u> A dan baksa Baksa ah	<u>ik compressing sejik njiga strav</u> . I dinas ² sazem compressive ika
			□ Medium □ High औ	agricult	
15	Provious observati	ions of baseline dry weather	or flow? 2019 BACK	EWATERED BY JAK	e and diges the expension of a
10.	Is an illigit disaba	was suspected at the sutfall	er flow? 2019 BACK	EXAMINED, NOT	SAMPLED.
10.	is all filler discriai	ige suspected at the outlan	н дио штез		
			scribe any additional monit 	Strict Contract of the second second	comments.
17.	Water Quality An	alyses Dup	licate sample collected?	INo □Yes Ⅳ//	graph Sarrest Jan - 20 July 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19
	Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold
	pH	units	units	units	≤ 4.0 or ≥ 9.0
A.,	Total chlorine	mg/L	mg/L	mg/L	≥ 1.0 mg/L
	Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L
	Total copper	mg/L	mg/L	mg/L	≥ 1.0 mg/L
	Total phenols	mg/L	mg/L	mg/L	≥ 0.5 mg/L
	Turbidity	NTU	NTU	NTU	≥ 250 NTU
	ut A. Course outs	and a substitute of	electric triple of the second		der en der en state der der der state en der
Pa	rt 4. Comments	and color is the	→ ME	ETAL PIPE CONIST	RUCTION.
		zed rocks in the	Anna tan - Indiana		on total desires gigillaria i di cal
	backludere	of by lake is cloudy			nggiyang saagen baggaa jing Duri dakama kubani
	· Meather	is clarky			**************************************
		7000	with the state	en italia de finga e fega	00/18/03
				10 00	P. Lashallu- Replacing
	- Boring Co	nshudion to the	South, running	lines run	east /west.
Re	vised January 2021	7/1/23, (KG)	Storm pipe (conget	ed cmp) visible and	Patentially Replacing east twest. in fact in edge of shuction cut slope.

Municipality of Anchorage APDES Monitoring Program

rt 1. General Info				Appropriate the second
^				
Date 6/16,	12023	TimeQ	:53	1
				VG
Field Crew	, AB, KG	Water quality	analyses conducted by	7 (3) (3) (3) (5) (5 (5)
Time since last rain	event 🛚 More than 48 h	ours 🛮 Less than 4	18 hours 6/15/23 12	: 60Pm
Size of last rain ove	ent <u>0.0 </u> inches	5. Measured at weather		Maria da
Size of last falli eve	ent <u>o, o, </u>	J. Weasured at Weather	Station	
rt 2. Visual Obser				
End of pipe diamet	ter2411	7. Structural Conditio	n: HDPE, SMO	oth walled, 100
Photographs (inclu	ide camera name/#)	100	- 11 p 14 12 to 10	OJ producti in tak
Suitable for sampli	ng under DWS Program?	□ No XYes Gw in-	f. possible.	Same to produce and
Water flowing fro	m and of nine?	Ves If yes denth	of water in end of nine	14"
. Water nowing no	om end of pipe? No	p res il yes, depuir	or water in end or pipe	Table 1 by Linds was a
Vo, take photograph	ns of outfall and record any	pertinent observations in o	comments. If Yes, continue.	
. Does the dischargi	ng water exhibit any of the	following (if yes, describe	in comments):	
	es Color? Cle	and the second s	and the first of the control of the	Colored
	•		. 8	
atables? None	☐ Moving oily sheen ☐	☐ Surface scum ☐ Soapy	suds □ Debris □ Oth	er (describe)
the state of the s	Same Ovanso	algae 13 Biology	NJA	
Vegetation				
. Vegetation	<u> </u>	in pile	ALMERICA TOTAL	
. Vegetation	Some orange	in pipe	mediane i distriction	Karanga Karang Karanga Karanga Karang
rt 3. Field Analyse	ester a constate a significa		Andrews I was the sale	Server of the se
rt 3. Field Analyse . Flow	es gal/min OR Low	☐ Medium ☐ High	Taker is the form omiget " have the property the design of the control	V. A. a.l. office
rt 3. Field Analyse . Flow	ester a constate a significa	☐ Medium ☐ High	Taker is the form omiget " have the property the design of the control	selled gole/fine.
rt 3. Field Analyse . Flow . Previous observati	es gal/min OR Low lons of baseline dry weathe	☐ Medium ☐ High er flow? 2019 could no	Taker is the form omiget " have the property the design of the control	sched gole/ fince.
rt 3. Field Analyse Flow Previous observati Is an illicit dischar	gal/min OR Low ions of baseline dry weatherge suspected at the outfall	□ Medium □ High er flow? <u>2019 could nou</u> 1? □ No □ Yes	+ access due to la	
. Flow . Previous observati . Is an illicit dischar	gal/min OR Low lons of baseline dry weather ge suspected at the outfall outfall. If Yes, continue. De	☐ Medium ☐ High er flow? <u>2019 coud nou</u> I? ☐ No ☐ Yes escribe any additional moni	toring recommendations in	
rt 3. Field Analyse Flow Previous observati Is an illicit dischar	gal/min OR Low lons of baseline dry weather ge suspected at the outfall outfall. If Yes, continue. De	□ Medium □ High er flow? <u>2019 could nou</u> 1? □ No □ Yes	toring recommendations in	
. Flow . Previous observati . Is an illicit dischar No, proceed to next . Water Quality An	gal/min OR Low lons of baseline dry weather ge suspected at the outfall outfall. If Yes, continue. De	☐ Medium ☐ High er flow? <u>2019 cond no</u> I? ☐ No ☐ Yes escribe any additional moni	toring recommendations in	
. Flow . Previous observati . Is an illicit dischar	gal/min OR Low gal/min OR Low cons of baseline dry weather rge suspected at the outfall outfall. If Yes, continue. De palyses Duple	☐ Medium ☐ High er flow? <u>2019 coud nou</u> I? ☐ No ☐ Yes escribe any additional moni	toring recommendations in	comments.
. Flow . Previous observati . Is an illicit dischar . No, proceed to next . Water Quality An	gal/min OR Low lons of baseline dry weather ge suspected at the outfall outfall. If Yes, continue. De lalyses Dupl	☐ Medium ☐ High er flow? 2019 could no fl? No ☐ Yes scribe any additional monitational monitation of the collected? ☐ Duplicate Sample	toring recommendations in No □ Yes ▷/♠ Equipment Blank	comments. Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L
. Flow . Previous observati . Is an illicit dischar . No, proceed to next . Water Quality An Parameter pH Total chlorine Detergents	gal/min OR Low cons of baseline dry weather rge suspected at the outfall outfall. If Yes, continue. De alyses Dupl Primary Sample	☐ Medium ☐ High er flow? 2019 could no I? ☐ No ☐ Yes escribe any additional monitational monitation of the collected? ☐ ☐ Duplicate Sample ☐ Units ☐ mg/L ☐ mg/L	toring recommendations in No Yes NA Equipment Blank units mg/L mg/L	comments. Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L ≥ 1.0 mg/L
. Flow . Previous observati . Is an illicit dischar . Vo, proceed to next . Water Quality An Parameter pH Total chlorine Detergents Total copper	gal/min OR Low ions of baseline dry weather ge suspected at the outfall outfall. If Yes, continue. De alyses Dupl Primary Sample mg/L mg/L mg/L	☐ Medium ☐ High er flow? 2019 could no Presseribe any additional monitational sample collected? ☐ Duplicate Sample units mg/L mg/L mg/L	toring recommendations in No Yes NA Equipment Blank units mg/L mg/L mg/L	comments. Program Threshold $\leq 4.0 \text{ or } \geq 9.0$ $\geq 1.0 \text{ mg/L}$ $\geq 1.0 \text{ mg/L}$ $\geq 1.0 \text{ mg/L}$
. Flow Previous observati . Is an illicit dischare Water Quality An Parameter	gal/min OR Low ions of baseline dry weather ge suspected at the outfall outfall. If Yes, continue. De alyses Dupl Primary Sample units mg/L mg/L mg/L mg/L mg/L	□ Medium □ High er flow? 2019 could no Presservibe any additional monitate sample collected? □ Duplicate Sample units mg/L mg/L mg/L mg/L	toring recommendations in No Yes N/A Equipment Blank units mg/L mg/L mg/L mg/L	comments. Program Threshold $\leq 4.0 \text{ or } \geq 9.0$ $\geq 1.0 \text{ mg/L}$ $\geq 1.0 \text{ mg/L}$ $\geq 1.0 \text{ mg/L}$ $\geq 0.5 \text{ mg/L}$
. Flow . Previous observati . Is an illicit dischar . Vo, proceed to next . Water Quality An Parameter pH Total chlorine Detergents Total copper	gal/min OR Low ions of baseline dry weather rge suspected at the outfall outfall. If Yes, continue. De alyses Dupl Primary Sample Indicate the mg/L M	☐ Medium ☐ High er flow? 2019 could no Presseribe any additional monitational sample collected? ☐ Duplicate Sample units mg/L mg/L mg/L	toring recommendations in No Yes NA Equipment Blank units mg/L mg/L mg/L	comments. Program Threshold $\leq 4.0 \text{ or } \geq 9.0$ $\geq 1.0 \text{ mg/L}$ $\geq 1.0 \text{ mg/L}$ $\geq 1.0 \text{ mg/L}$

by weather: drizzling
by is in fenced area but fonce unlocked

Municipality of Anchorage APDES Monitoring Program

Watershed:CF	AMP. CREEK	Out	fall Number: <u>675</u>	to done or other all other persons
Part 1. General Info	ormation.	a " IROSHEJI	pare treatment to the torus	man in the second of the second
1. Date	20/2023	Time 9	40 AM.	
	Ka, ABIJC	Water quality	analyses conducted by	AB. and middless, and
3. Time since last rai	n event	ours Less than 4	18 hours 00/25/20	23 @4AM
	ent 0.0\ inches	5. Measured at weather	A	
Part 2. Visual Obser	rvations	the same agreeming my	rang a porago na no radio	SCIP LINED
6. End of pipe diame	ter_ 18.1NCH.	7. Structural Condition	on: 000D +	TOPE, SMOOTH WY COLEAR
8. Photographs (inclu	ude camera name/#)	IPAD.	4.1	W/ COLEAR
	ing under DWS Program?		NE SUSPECTED.	The second of the second
				r semerija i te matricos e e
10. Water flowing from	om end of pipe? 🗆 No 🏻 🗖	1Yes If yes, depth	of water in end of pipe	INCH
If No, take photograp	hs of outfall and record any	pertinent observations in o	comments. If Yes, continue.	
11 Does the discharge	ing water exhibit any of the	following (if yes, describe	in comments):	to constant to the
A	M Short P. A. Part W. or provide a con-	russia in Talaha san Sasah d	dinter or heavistable	
Odors? ♥\No □ Y	es Color? LCle	ear 🗆 Cloudy/Muddy	Clarity? Clear	Colored
Floatables? None	☐ Moving oily sheen ☐	☐ Surface scum ☐ Soapy	990 suds □ Debris □ Oth	er (describe)
	POWN ALGAE ON			
12. Vegetation <u>*//</u>	dutte it earliers age. Elses	(WPOTH 15. BIOLOGY	Charles and a second of the	January Company Co. 13 c. 53
Part 3. Field Analys	es de la minace publicada de pilo	seed a payment of modernment	endors and margarithe	
14. Flow	gal/min OR Low	Medium □ High		
	ions of baseline dry weathe	A STATE OF THE STA	LED - NO FX	CEGO ANICES
		. (1		- CEDENACE S
16. Is an illicit discha	rge suspected at the outfall	? №No □ Yes	and of This order was	ter fait Jewin hal till exp
If No, proceed to next	outfall. If Yes, continue. De	scribe any additional moni	toring recommendations in	comments.
	nalyses Dupl			
1,241.30	ach literatur dhana a-astan a	microscopic entire and other series of	It been not believed at classic.	<u>, in tim to a stadendari éli</u>
Parameter	Primary Sample 1.0 units	Duplicate Sample	Equipment Blank	Program Threshold ≤ 4.0 or ≥ 9.0
pH Total chlorine	mg/L	units mg/L	units mg/L	≥ 1.0 mg/L
Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L ≥ 1.0 mg/L
Total copper	mg/L	mg/L	mg/L	≥ 1.0 mg/L ≥ 1.0 mg/L
Total phenols	mg/L	mg/L	mg/L	≥ 1.0 mg/L ≥ 0.5 mg/L
Turbidity	9.81 NTU	NTU	0.72 NTU	≥ 250 NTU
TEMAR	10 8			

Part 4. Comments

WEATHER: OVER CAST.

PUST STAIN ON COLLAR.

FIP NEAP DS CHANNEL

Municipality of Anchorage APDES Monitoring Program

Watershed: <u>Cam</u>	phell	Outf	fall Number: 1001-16	Harris Sales
Part 1. General Info	rmation.	I Special	And our of but seed	The state of the s
1. Date 6/19/	2.3	Time 1430	7. 5	
2. Field Crew CV			analyses conducted by	Guran Anna Jahin and
	n event 🖾 More than 48 h	nours Less than 4	8 hours 6/16/23	13:00
	ent <u>0,84</u> inches		and the property of the second	And the control of the control
Part 2. Visual Obser	vations	a recei, as a roman is a received	Fair	wing the first of the sets
6. End of pipe diame	ter 3011	7. Structural Condition		m holes in sides?
8. Photographs (inclu	ude camera name/#) <u>i Po</u>	4	Dent in top	ip of pipe.
		□ No □ Yes	residente de la companio del companio de la companio del companio de la companio del companio de la companio de la companio de la companio del companio de la companio del companio de la companio del co	and the second of the second o
alth de la life e a baile				2 11
10. Water flowing fro	om end of pipe? 🗆 No 🏻	☑ Yes If yes, depth o	of water in end of pipe $\frac{1}{2}$	4
If No, take photograpi	hs of outfall and record any	pertinent observations in c	omments. If Yes, continue.	
11. Does the dischargi Odors? □ No ☑ Y	Auch	e following (if yes, describe i	to a define a constant of a dealer by Land.	Colored
^				
Floatables? M None		☐ Surface scum ☐ Soapy		er (describe)
12. Vegetation No	one.	13. Biology _	Tes i fish fry	
Part 3. Field Analys	es	ragina ngakang manancan Pagina ngakang	material resident particle	nitral tell og telkning og
14. Flow	gal/min OR ☑ Low	☐ Medium ☐ High	once that the	
		erflow? 2019 was back	watered.	
		The following of the ben	化水子合同 网络 网络	Paleyle, China
Is an illicit discha	rge suspected at the outfal	l? ☑ No ☐ Yes	fundadas Shall by sea	
affect of decision	outfall. If Yes, continue. De	escribe any additional monit	coring recommendations in	comments.
If No, proceed to next		Alteria - Seria Acemente en marra relativa	And the second s	comments.
If No, proceed to next	nalyses Dup	licate sample collected?	No □ Yes №/A	de en
If No, proceed to next 17. Water Quality An Parameter	Dup Primary Sample	Alteria - Seria Acemente en marra relativa	And the second s	Program Threshold ≤ 4.0 or ≥ 9.0
If No, proceed to next 17. Water Quality An Parameter pH	Primary Sample 1.5 units	Duplicate Sample units	No □ Yes №/A Equipment Blank	Program Threshold
If No, proceed to next 17. Water Quality An Parameter pH Total chlorine	Primary Sample 1.5 units mg/L	Duplicate Sample units mg/L	No ☐ Yes №/A Equipment Blank units	Program Threshold ≤ 4.0 or ≥ 9.0
If No, proceed to next 17. Water Quality An Parameter pH Total chlorine Detergents	Primary Sample 1.5 units mg/L mg/L	Duplicate Sample units	No ☐ Yes №/A Equipment Blank units mg/L	Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L
If No, proceed to next 17. Water Quality An Parameter pH Total chlorine	Primary Sample 1.5 units mg/L	Duplicate Sample units mg/L mg/L	No ☐ Yes №/A Equipment Blank units mg/L mg/L	Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L ≥ 1.0 mg/L

Part 4. Comments

3" depth to mud (rust line)
Flows directly into main Stream w/slight perch
Drainage marker at Site

Do not COUNT

Dry Weather Screening Field Data Form Municipality of Anchorage APDES Monitoring Program

Watershed:	Campbell	Out	fall Number: 133°	1-38
Part 1. General	Information.	A. 193. F.	7 7 7 7 W LE LE	ghiera et in parti
1. Date	119/2023	Time	1:02	
2. Field Crew	WN, CT	Water quality	y analyses conducted by	Legisla Carta and Markey
3. Time since las	st rain event More than 48 h	hours 🗆 Less than	48 hours 6/16/23	13:00
4. Size of last rai	in event <u>o.o 4</u> inches	5. Measured at weather	Principles of Classics	ra si jedili sa gil Margi.
Part 2. Visual O	bservations	x stations at the state of	The springs of the second	Caldaya ba Baya ge
6. End of pipe di	ameter could not occur	7. Structural Condition	on:	skah maji kalika Ma
	(include camera name/#)			
	ampling under DWS Program?			
		The Justines will be	du le Light in Shirtage shirt h	
to. Water nown	ng from end of pipe? ☐ No ☐	Ties ONE il yes, deptil	or water in end or pipe	
f No, take photo <u>c</u>	graphs of outfall and record any	y pertinent observations in	comments. If Yes, continue	and the first of the second
11. Does the disch	harging water exhibit any of the	e following (if ves. describe	in comments):	
		et deur in Letenius - " ini ie 4 h	office a firm of the second	on a disease and see and ever on
Odors? 🗆 No	☐ Yes Color? ☐ Cl	ear □ Cloudy/Muddy	Clarity? L. Clear L.	Colored
Floatables? 🗆 N	one	☐ Surface scum ☐ Soapy	suds 🗆 Debris 🗆 Oth	er (describe)
	Same to the second seco			
a yellor — wilden onel v	Succession on Survey			de la la contraction de la con
Part 3. Field Ana	alyses			
14. Flow	gal/min OR 🗆 Low	☐ Medium ☐ High	NA	The small address of
L5. Previous obse	ervations of baseline dry weathe	erflow? <u>No historica</u>	il data.	a distancing when the dis-
.6. Is an illicit dis	scharge suspected at the outfal	II? □ No □ Yes +	(A	
and the second of the second				
f No, proceed to	next outfall. If Yes, continue. De	escribe any additional moni	toring recommendations in	i comments.
	ty Analyses Dup	licate sample collected?	INo □Yes N/k	
10	a se malightes with poor exclusion	h-1	a translation and beautiful	- Charles of the Control of the Cont
Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold
pH Total chlorin	units mg/l	units mg/l	units mg/L	≤ 4.0 or ≥ 9.0
Detergents	mg/L mg/L	mg/L		≥ 1.0 mg/L
Total copper		mg/L mg/L	mg/L mg/L	≥ 1.0 mg/L ≥ 1.0 mg/L
Total phenol		mg/L	mg/L	≥ 1.0 mg/L ≥ 0.5 mg/L
Total prienti	J IIIg/L	IIIg/L	IIIg/L	≥ 0.5 Hig/L

Part 4. Comments

Municipality of Anchorage APDES Monitoring Program

	n pidell	×	fall Number: 1493	and the second second
rt 1. General Info	rmation.		2	elmini dengo, sednam
Date	19/2025	Time	15:24	
Date	IN, CT		analyses conducted by	Total indicate
Time since last rain	n event ' More than 48 h	ours 🗆 Less than 4	48 hours 6/16/23	3:00
Size of last rain eve	ent <u>०.०५</u> inches	5. Measured at weather	station TSTA	gisalon hossi yazo, i yile c. Azon o <u>si</u>a aliqua, hili yosh
rt 2. Visual Obser	rvations	produce and beauty	TODAY - USAN	A. A. L. (1997) A. A. (1997) 1. (1997)
End of pipe diame	ter could not locate	7. Structural Condition	on:	ignation of the second of the
Photographs (inclu	ude camera name/#)	'N EPhone	Tenine of the control of the	- Gran wordspieler
Suitable for sample	ing under DWS Program?	☑ No ☐ Yes	i demonstrativa	desires to a tournate
. Water flowing fro	om end of pipe? 🗆 No 🗆	Yes Unk If yes, depth	of water in end of pipe	Antieri e wy ku to Silays Je
No, take photograpi	hs of outfall and record any	pertinent observations in o	comments. If Yes, continue.	i pringerske steate fil
. Does the dischargi	ing water exhibit any of the	following (if yes, describe	in comments):	
Ara Cifelia for.	a North or danabased attention			
lors? □ No □ Y	es Color: Li Cie	ear □ Cloudy/Muddy	Clarityr Li Clear Li	Colored
oatables? None	☐ Moving oily sheen ☐	☐ Surface scum ☐ Soapy	suds Debris Oth	er (describe)
. Vegetation	The state of the s	13. Biology	12 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	
ort 3. Field Analys	date site despression and a second	na liga — magazi Sanda Sand	they seem about absorb	
	Committee Commit			
	gal/min OR □ Low	softwar of agreement for it as	provident to he was as a let be to	
. Previous observat	ions of baseline dry weathe	erflow? No historical	l dota.	State of the state
. Is an illicit discha	rge suspected at the outfall	l? ⊠No, □Yes ≀	1/A31	Tapa ti dhac wata
	outfall. If Yes, continue. De			comments
	a may have a large	AND THE RESERVE OF THE PARTY OF	Total state mention state at	
. Water Quality An	nalyses Dup	licate sample collected?	□No □Yes N/A	
Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold
pH	units	units	units	≤ 4.0 or ≥ 9.0
Total chlorine	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Total chiornic	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Detergents	The second secon	mg/L	mg/L	≥ 1.0 mg/L
Detergents Total copper	mg/L	6/ -		
Detergents	mg/L mg/L	mg/L	mg/L	≥ 0.5 mg/L
Detergents Total copper			mg/L NTU	≥ 0.5 mg/L ≥ 250 NTU
Detergents Total copper Total phenols	mg/L	mg/L	At the second se	

La beenive upstream

In quality of water indicates that if pipe outlet could be found, no sampling would be required

Revised January 2021

	Outfall Number:
Part 1. General Information. 1. Date	Time 14:36 Water quality analyses conducted by
3. Time since last rain event More than 48 hou 4. Size of last rain event <u>の, の</u> inches 5	irs
Part 2. Visual Observations	
6. End of pipe diameter Could not local-	7. Structural Condition:
8. Photographs (include camera name/#)	openion per a company of the company
9. Suitable for sampling under DWS Program?	No Yes
10. Water flowing from end of pipe? ☐ No ☐ \	es Onk If yes, depth of water in end of pipe
If No, take photographs of outfall and record any pe	ertinent observations in comments. If Yes, continue.

11. Does the discharging water exhibit any of the following (if yes, describe in comments):

Odors? □ No □ Yes Color? □ Clear □ Cloudy/Muddy Clarity? □ Clear □ Colored ______

13. Biology

Part 3. Field Analyses

12. Vegetation

14. Flow	gal/min OR 🗆 Lo	v □ Medium □ High /	N/A		Majarah saka ya majar
15. Previous o	bservations of baseline dry wea	ther flow? No historical	dota	dogi njaviri	militarily bushes,
		vall, married and a second			

If No, proceed to next outfall. If Yes, continue. Describe any additional monitoring recommendations in comments.

17. Water Quality Analyses

Duplicate sample collected? ☐ No ☐ Yes N/A

Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold
pH	units	units	units	≤ 4.0 or ≥ 9.0
Total chlorine	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Total copper	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Total phenols	mg/L	mg/L	mg/L	≥ 0.5 mg/L
Turbidity	NTU	NTU	NTU	≥ 250 NTU

Part 4. Comments

Ly could not find outlet

16. Is an illicit discharge suspected at the outfall? ☐ No ☐ Yes 戶/♣

Vatershed:		Outfall Number: 1495-1	
art 1. General Info	ormation.	The state of the s	10 (20 T 1991) 20 (20 T 1991)
. Date OV O		Time 13:26 Water quality analyses conducted by	- m. 3 Librari - j. florin
	n event		
. Size of last rain ev	ent <u>(), ()</u> inches	5. Measured at weather station	i i i i i i i i i i i i i i i i i i i
art 2. Visual Obse		1)	A STATE OF THE STATE OF
. End of pipe diame	eter 121nch	7. Structural Condition: HDP, Smooth Interior,	fair condi
. Photographs (incl	ude camera name/#)	TPAD	A migripolitario
. Suitable for samp	ling under DWS Program?	□ No Yes If flowing	<u> </u>
0. Water flowing fr	om end of pipe? ☒ No □	☐ Yes If yes, depth of water in end of pipe	Inch Sedim
	all and the second of the seco	y pertinent observations in comments. If Yes, continue.	
No, take photograp	hs of outfall and record any	and the companion of the contract of the contr	
f <i>No, take photograp</i> 1. Does the discharg	hs of outfall and record any ing water exhibit any of the	y pertinent observations in comments. If Yes, continue.	
f No, take photograp 1. Does the discharg Odors? 口 No 口 \ loatables?	ing water exhibit any of the 'es NA Color? Cle Moving oily sheen	y pertinent observations in comments. If Yes, continue. e following (if yes, describe in comments):	
f No, take photograp 1. Does the discharg Odors? 口 No 口 \ loatables?	ing water exhibit any of the Yes NA Color? Cle Moving oily sheen	y pertinent observations in comments. If Yes, continue. e following (if yes, describe in comments): lear □ Cloudy/Muddy ○ Clarity? □ Clear □ Colored □ Surface scum □ Soapy suds □ Debris □ Other (describe)	
f No, take photograph 1. Does the discharge Odors? □ No □ No loatables? ☒ None 2. Vegetation ☑ Part 3. Field Analys	ing water exhibit any of the Yes NA Color? Cle Moving oily sheen C	y pertinent observations in comments. If Yes, continue. e following (if yes, describe in comments): lear □ Cloudy/Muddy ○ Clarity? □ Clear □ Colored □ Surface scum □ Soapy suds □ Debris □ Other (describe)	
f No, take photograph 1. Does the discharge Odors? □ No □ None Ioatables? ☒ None 2. Vegetation ☑ Part 3. Field Analys 4. Flow	ing water exhibit any of the Yes NA Color? Cle Moving oily sheen Ces Moving oily sheen Ces Moving oily sheen Ces Moving oily sheen	y pertinent observations in comments. If Yes, continue. e following (if yes, describe in comments): lear □ Cloudy/Muddy □ Clarity? □ Clear □ Colored □ Surface scum □ Soapy suds □ Debris □ Other (describe) □ 13. Biology □ □ Medium □ High □ Medium High □ Medium □ High □ Medium High □ Med	
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No, take photograph 1. Does the discharge 1. Does the discharge 2. No □ No 2. Vegetation ☐ 2. Vegetation ☐ 2. Field Analys 4. Flow ☐ 5. Previous observat 6. Is an illicit discharge 7. Water Quality A Parameter pH Total chlorine Detergents	ing water exhibit any of the res NA Color? □ Cle □ Moving oily sheen □ es □ gal/min OR □ Low cions of baseline dry weather arge suspected at the outfall toutfall. If Yes, continue. December 1998 Primary Sample units mg/L mg/L	y pertinent observations in comments. If Yes, continue. e following (if yes, describe in comments): lear □ Cloudy/Muddy NA Clarity? □ Clear □ Colored □ Surface scum □ Soapy suds □ Debris □ Other (describe) □ 13. Biology NA □ Medium □ High NO ler flow? NO □ Yes escribe any additional monitoring recommendations in comments. policate sample collected? □ No □ Yes NA □ Duplicate Sample Equipment Blank Program Thr □ units units ≤ 4.0 or □ mg/L mg/L ≥ 1.0 r □ mg/L ≥ 1.0 r	eshold ≥ 9.0 mg/L
1. Does the discharged of No, take photograph of No 1. Does the discharged of No 2. Vegetation 2. Vegetation 2. Vegetation 3. Field Analyse 4. Flow 5. Previous observation 6. Is an illicit discharged of No, proceed to next 7. Water Quality A Parameter pH Total chlorine	ing water exhibit any of the res NA Color? □ Cle □ Moving oily sheen □ □ Low □ I Low	y pertinent observations in comments. If Yes, continue. e following (if yes, describe in comments): lear □ Cloudy/Muddy □ Clarity? □ Clear □ Colored □ □ Surface scum □ Soapy suds □ Debris □ Other (describe) □ 13. Biology □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	eshold ≥ 9.0 mg/L mg/L mg/L

. 10 costed at and of pipe instead of node, under

Municipality of Anchorage APDES Monitoring Program

3. Time since last rain event More than 48 hours	lumber: <u>299 - 22</u>
2. Field Crew KG CK Water quality anal 3. Time since last rain event More than 48 hours Less than 48 hours 4. Size of last rain event 6.04 inches 5. Measured at weather stationary and 6. End of pipe diameter DWS Program? No Measured 1. Measur	The second procedure through the second of the
3. Time since last rain event More than 48 hours	2 ma 36 m = 2 1 / 2 mag 1 / 2 mag 1 / 2
4. Size of last rain event	yses conducted by KG
Part 2. Visual Observations 6. End of pipe diameter 24	urs 6/16/23 13:00
6. End of pipe diameter	''
9. Suitable for sampling under DWS Program? \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	HOPE, smooth welled w/ grate plack what plack what cold good rip forp Collar
10. Water flowing from end of pipe? \Bo \Bo Yes If yes, depth of war If No, take photographs of outfall and record any pertinent observations in common 11. Does the discharging water exhibit any of the following (if yes, describe in conditions) of Yes Color? \Bo Clear \Bo Cloudy/Muddy Colors? \Bo None \Bo Moving oily sheen \Bo Surface scum \Bo Soapy suds 12. Vegetation \Bo Yee \Bo Algae,	er Infiltration suspected
If No, take photographs of outfall and record any pertinent observations in common 11. Does the discharging water exhibit any of the following (if yes, describe in conditions) No	to be well a 1990 by a ready or Autorian and a second or a second
11. Does the discharging water exhibit any of the following (if yes, describe in cord of the following (if yes, describe in closed) (if yes, describe in cord of the following (if yes, describe in closed) (if yes, describe scum) (if yes, describe in cord of the following (if yes, describe in closed) (if yes, describe in closed) (if yes, describe in cord of yes, describe in cord of yes, describe in cord of yes, describe in closed (if yes, describe in cord of yes, desc	
Odors? No Yes Color? Clear Cloudy/Muddy Floatables? None Moving oily sheen Surface scum Soapy suds 12. Vegetation Green algore 13. Biology Part 3. Field Analyses 14. Flow	ents. If Yes, continue.
Odors? □ No □ Yes Color? □ Clear □ Cloudy/Muddy Complete Surface Scum □ Soapy Suds □ Surface Scum □ Suds □ Surface Scum □ Surface Scum □ Soapy Suds □ Surface Scum □ Surface Scum □ Suds □ S	nments):
Floatables? None Moving oily sheen Surface scum Soapy suds 12. Vegetation 13. Biology 13. Biology 13. Biology 14. Flow	clarity? ☑ Clear ☐ Colored
14. Flowgal/min OR □ Low ☑ Medium □ High 15. Previous observations of baseline dry weather flow?	□ Debris □ Other (describe)
15. Previous observations of baseline dry weather flow? Menitored In 16. Is an illicit discharge suspected at the outfall? □ No □ Yes Possibly If No, proceed to next outfall. If Yes, continue. Describe any additional monitoring 17. Water Quality Analyses Duplicate sample collected? ☒ No Parameter Primary Sample Duplicate Sample Equation Primary Sample Duplicate Sample Dupl	pulgar and third carbon may appropriate the company. Don
15. Previous observations of baseline dry weather flow? Menitored In 16. Is an illicit discharge suspected at the outfall? □ No □ Yes Possibly If No, proceed to next outfall. If Yes, continue. Describe any additional monitoring 17. Water Quality Analyses Duplicate sample collected? ☒ No Parameter Primary Sample Duplicate Sample Equation Primary Sample Duplicate Sample Dupl	paragraph on a figure to the attract ato as on spanic a
16. Is an illicit discharge suspected at the outfall? ☐ No ☐ Yes Possibly If No, proceed to next outfall. If Yes, continue. Describe any additional monitoring 17. Water Quality Analyses Duplicate sample collected? ☒ No Parameter Primary Sample Duplicate Sample Equation Primary Sample Duplicate Sample Duplic	2012 and calle fly who and
If No, proceed to next outfall. If Yes, continue. Describe any additional monitoring 17. Water Quality Analyses Duplicate sample collected? ☑ No Parameter Primary Sample Duplicate Sample Equality pH 7 ⋅ 2 units units Total chlorine 0 ⋅ 0 mg/L mg/L	and the SP CA well in the control of
If No, proceed to next outfall. If Yes, continue. Describe any additional monitoring 17. Water Quality Analyses Duplicate sample collected? ☑ No Parameter Primary Sample Duplicate Sample Equality pH 7. 2 units units Total chlorine 0.0 mg/L mg/L	-Sulfer smell + DS scom
Parameter Primary Sample Duplicate Sample Equation pH 7 • 2 units units Total chlorine 0 • 0 mg/L mg/L	10 분위 10 HO 10 HO - LOUIS UNION SOUND NO SERVICE NO SERVICE NO SERVICE NO SERVICE NO SERVICE NO SERVICE NO SER
pH 7.2 units units Total chlorine 0.6 mg/L mg/L	□Yes
pH 7.2 units units Total chlorine 0.6 mg/L mg/L	ipment Blank Program Threshold
5.	— units ≤ 4.0 or ≥ 9.0
	○ mg/L ≥ 1.0 mg/L
	O mg/L ≥ 1.0 mg/L
	O /T=O mg/L ≥ 1.0 mg/L
Total phenols mg/L mg/L	0 mg/L ≥ 0.5 mg/L
Turbidity 3.20 NTU NTU	0,48 NTU ≥ 250 NTU

Part 4. Comments Some trash in D5 Channel. Homeless camps in area. Grange brown algae for veg.

Municipality of Anchorage APDES Monitoring Program

Wa	itershed: <u>CHS</u>	4	Out	fall Number: 484 - (The same of the sa	
Pai	rt 1. General Info	rmation.	· · · · · · · · · · · · · · · · · · ·	manga Persig Services of IREARCH Johnney College	meg tir een een en bond verden. Meg did te Stoot van 'n vala antwe	
1.	Date 6/19	123	Time 1120	1		
	. Field Crew KG, CK Water quality analyses conducted by N/A					
		n event 🛛 More than 48 h	The state of the s	8 hours 6/16/23 13:0		
		ent <u> </u>	5. Measured at weather		g is shown noble	
Pai	rt 2. Visual Obser	vations	Completed on a sign of	The second of th	Takipas - Maggaran	
6.	End of pipe diame	ter <u>2411</u>	7. Structural Conditio	n: Good; top is d	iented; CMP	
		ude camera name/#) <u>iPo</u>			principal investments and by	
9	Suitable for sampli	ing under DWS Program?	TNO Myes if Flow	uin@		
					Aggregate to a great latter of	
		om end of pipe? 🖾 No 🗆		of water in end of pipe		
If N	lo, take photograpi	hs of outfall and record any	pertinent observations in c	comments. If Yes, continue.	otta amik se yani arrang ili alam otta ili Mis atta Misabilia ili be	
11.	Does the dischargi	ing water exhibit any of the	following (if yes, describe	in comments): N/A, n	o Plow	
	ors? □ No □ Y		ear 🗆 Cloudy/Muddy			
		☐ Moving oily sheen ☐			er (describe)	
12.	Vegetation	See A former on the boundary of	13. Biology	and the state of t		
Pa	rt 3. Field Analys	es, er	- regulari sprinist fyld	arajor , helped v jaza	e projekterný vytor i vytor i	
1/1	Flow N/A No	Flow gal/min OR □ Low	□ Medium □ High			
15.	Previous observat	ions of baseline dry weathe	rflow? Mondored 2	012, 2015, and 2016.	Dry in 2012.	
16.	Is an illicit discha	rge suspected at the outfall	? ØNo □Yes	i ir ei bygalfapir és, m. i		
If N	lo, proceed to next	outfall. If Yes, continue. De	scribe any additional monit	torina recommendations in	comments.	
-		duar infrantarymens			CONTRACTOR (CARDON CONTRACTOR)	
17.	Water Quality Ar	nalyses Dupl	icate sample collected?	INO LIYES N/ A	opin and the U.S.	
	Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold	
	pH	units	units	units	≤ 4.0 or ≥ 9.0	
	Total chlorine	mg/L	mg/L	mg/L	≥ 1.0 mg/L	
	Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L	
	Total copper	mg/L	mg/L	mg/L	≥ 1.0 mg/L	
	Total phenols	mg/L	mg/L	mg/L	≥ 0.5 mg/L	
	Turbidity	3-10 NTU	NTU	NTU	≥ 250 NTU	

Part 4. Comments
Rust line 1" deep

Some trash DS of channel Riprap in DS Channel

	Municipality of Anchorage APDES Monitoring I	Program	Q.VS EC
Charlow		long / l	e, 05 L
itershed: <u>Nester</u>	Outfall Number:	041.1	match was the

vva	tersnea: V	0 3 1 0 1	Out	rall Number:	the strain of th
	t 1. General Info Date 6 / VG		Time9:	05	is make the artifactor managing by Tilbert for artifactor my from Milholdorf arms a market contractor of the contractor
2. 1	Field Crew	G AB CT	Water quality	analyses conducted by _	N/A
3.	Time since last rain	n event 🏻 More than 48 h	ours 🛭 Less than 4	18 hours	
4. 5	Size of last rain eve	ent <u>0.01</u> inches	5. Measured at weather	station TSIA	a miller state of delivers in the
Par	t 2. Visual Obser	vations		the halforn St. Timbodian e feet	AND HARDON CONTRACTOR OF THE PARTY OF THE PA
6. I	End of pipe diame	ter <u>36</u> ide camera name/#)	7. Structural Condition	on: Fine CA	MP in grate 3 (a
9. 5	Suitable for sampli	ng under DWS Program?	□ No \Yes_if ()	owing	rung sarah koretenik sarah sa India metana distrik komuni
		om end of pipe? No D		of water in end of pipe	
		ns of outfall and record any	District Control of the Control of t		Alberta Carrier and Carrier in
11. l	Does the dischargi	ng water exhibit any of the	e following (if yes, describe	in comments): Clarity? ☐ Clear [☐ Colored
Floa	ntables? None Vegetation gre	Moving oily sheen I some states and gr	☐ Surface scum ☐ Soapy	suds □ Debris □ Ot	her (describe)
	t 3. Field Analyse		entropy of the	obalijelov – i by s jestov	Sail Petr Strong Listen 1973
14.	Flow	gal/min OR □ Low	☐ Medium ☐ High 人	love	
15.	Previous observati	ons of baseline dry weathe	erflow? no firstore	al data	
16.	Is an illicit dischar	ge suspected at the outfall	I? ⊠No □ Yes		
If No	o, proceed to next	outfall. If Yes, continue. De	scribe any additional moni	toring recommendations	in comments.
17.	Water Quality An	alyses Dup	licate sample collected?	No □Yes N/A	an in the second section of
-[Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold

Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold
pH	units	units	units	≤ 4.0 or ≥ 9.0
Total chlorine	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L ·
Total copper	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Total phenols	mg/L	mg/L	mg/L	≥ 0.5 mg/L
Turbidity	NTU	NTU	NTU	≥ 250 NTU

Part 4. Comments

- Weather is do 1771ing

- riprop in DS channel

- MOA ONM to clean out grate.

Municipality of Anchorage APDES Monitoring Program

	es fer	Out	fall Number: 553	The state of the states when
Part 1. General Info	rmation.	a distributed		
1. Date	6/2023	Time \mathcal{A} :	28	the last and a second
2. Field Crew K			analyses conducted by	K G
3. Time since last rain	event	ours 🗈 Less than 4	18 hours 6/15/23	2:00 pm
		5. Measured at weather		rape the Createst Harrier et
Part 2. Visual Obser	vations	SAN TOUR STAN AND AND AND AND AND AND AND AND AND A	A section of the sect	CIL E GELLO : CONTRACTO
		7. Structural Conditio	n! CNP, VI A	etargular weit
8. Photographs (inclu	de camera name/#)K	Es brand		
O C.:t-bl-f	day DMC Dya 1	TN= HV== (5W)	ME	
10 Water flowing fro	m end of nine?	Ves If yes denth of	of water in end of nine	, veir 12" wid
io. Water nowing no	in end of pipe: 12 No 3	res in yes, deptile	or water in end of pipe	
lf No, take photograph	s of outfall and record any	pertinent observations in c	comments. If Yes, continue.	
11. Does the dischargi	ng water exhibit any of the	following (if yes, describe	in comments):	
Odors? MNo DV	color? MCle	ear 🗆 Cloudy/Muddy	Clarity? ☑ Clear □	Colored
			v 14	
		☐ Surface scum ☐ Soapy		er (describe)
12. Vegetation $\frac{9}{2}$	LOGIN MOSS ON	Mr 13. Biology	NA	Technology .
Part 3. Field Analyse		to become a financial transported to	and a story part of the state o	
Annual Control of the		Mandian Duich		
	gal/min OR □ Low		-COAR 1 054	agreed to the latest
15. Previous observati	ons of baseline dry weathe	r flow? Yes 2015	Janipled, 2016 r	nontored.
				in pater Statement of the
16. Is an illicit dischar	ge suspected at the outfall	r Dano Lites		
16. Is an illicit dischar				Tele Balan Mana Arvat (18) July 1 - Majarah Beldandi, ata
		r ᆺ No		comments.
If No, proceed to next	outfall. If Yes, continue. De		toring recommendations in	comments.
f No, proceed to next	outfall. If Yes, continue. De	scribe any additional monit	toring recommendations in	comments. Program Threshold
f No, proceed to next	outfall. If Yes, continue. Dealyses Primary Sample 7 2 units	scribe any additional moniticate sample collected? □ Duplicate Sample ついろり units	toring recommendations in	organista i gradi speciali Organista i gradi speciali s Organista i gradi speciali spe
Parameter pH Total chlorine	Primary Sample 7 . Z units Heap 1256 mg/L	Duplicate Sample Units Market Collected Coll	Toring recommendations in No Yes NA Equipment Blank units mg/L	Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L
Parameter pH Total chlorine Detergents	Primary Sample 7 3 units Helling 12 de mg/L mg/L	Duplicate Sample 7.34 units mg/L mg/L	Equipment Blank units mg/L mg/L	Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L ≥ 1.0 mg/L
Parameter pH Total chlorine Detergents Total copper	Primary Sample To Sunits mg/L mg/L mg/L	Duplicate Sample Duplicate Sample Duplicate Sa	Equipment Blank units mg/L mg/L mg/L	Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L ≥ 1.0 mg/L ≥ 1.0 mg/L
If No, proceed to next 17. Water Quality An Parameter pH Total chlorine Detergents Total copper Total phenols	Primary Sample 7 2 units Htmp 12 40 mg/L mg/L mg/L mg/L	Duplicate Sample Outplicate Sam	Equipment Blank units mg/L mg/L mg/L mg/L	Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L ≥ 1.0 mg/L ≥ 1.0 mg/L ≥ 0.5 mg/L
If No, proceed to next of the second	Primary Sample To Sunits mg/L mg/L mg/L	Duplicate Sample Duplicate Sample Duplicate Sa	Equipment Blank units mg/L mg/L mg/L	Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L ≥ 1.0 mg/L ≥ 1.0 mg/L

Ly Access from West property, outland on Eastern side of stream

Watershed:						1-2	
Part 1. General Info	rmation.		nesti sa v		86.7	()	- I lowers
1 Data 6	19/23	Tir	no 4:	46 Saw	ipled o	H 10:05	
1. Date	19/23 V, CT, KG,	C.V	ine	analyses condu	merican E	1474	
2. Field Crew	V, () , (C)	Wa	ater quality	analyses condu	cted by	10 10	0, 10- 10-
3. Time since last rain	event 🖾 More than	48 hours □	Less than 4	8 hours 6/16/	23 13	3:00	
4. Size of last rain eve	ent <u>0,04</u> inche	s 5. Measured	at weather	station TSI	A	ers , is rel pi	
Part 2. Visual Obser		Angelor Activity Services (67)	er a solito	THE BRIDGE TO	-40.00	** a 4 9 9 14	BEED-IV I'.
	ter 5 ff / 1		ral Conditio	n: <u>asso</u> wed	half	buried, cor	cicte
8. Photographs (inclu	ide camera name/#)	IPad				and the	za poly
O Cuitable for seventi	ng under DWS Prograr	m2 □No ₩Vos	GW i	a filtration	suspect	. los	
9. Sultable for sampli	ng under DWS Prograf	mr пио ж res_		dela Pini Ri	bu neoffd i	00011	- No. 2 TA 2 H
10. Water flowing fro	om end of pipe? 🗆 No	Yes If y	yes, depth o	of water in end o	of pipe	2015	backwate
	hs of outfall and record						
	Company of the Compan		VULIONS III C	comments. If Yes	, continue		
44 5 11 11 1	1.11.16			Am magazi a	, continue	ed the introduce	
	ng water exhibit any o	of the following (if yes	s, describe	in comments):			
		of the following (if yes	s, describe	in comments):			
Odors? 🗖 No 🗆 Yo	es Color? [of the following (if yes	s, describe	in comments): Clarity? 风	Clear □	l Colored	Lourand C
Odors? Ď No □ Yo Floatables? Ø None	es Color? [of the following (if yes	s, describe 'Muddy □ Soapy	in comments): Clarity? suds Debri	Clear □	l Colored	minimal a transparer
Odors? Ď No □ Yo Floatables? Ø None	es Color? [of the following (if yes	s, describe 'Muddy □ Soapy	in comments): Clarity? suds Debri	Clear □	l Colored	minimal s transpavev
Odors? ÄNo □ Yo Floatables? A None 12. Vegetation <u>▷</u>	es Color? [Moving oily sheer rown Algar	of the following (if yes	s, describe 'Muddy □ Soapy	in comments): Clarity? suds Debri	Clear □	l Colored	9 Minimal 9 Franspavev
Odors? ANO YO Floatables? Mone 12. Vegetation Part 3. Field Analyse	es Color? [Moving oily sheer rown Algar es	of the following (if yes	s, describe /Muddy □ Soapy 3. Biology	in comments): Clarity? suds Debri	Clear □	l Colored) minimal o transpavev
Odors? No UYO Floatables? None 12. Vegetation Part 3. Field Analyse 14. Flow	es Color? [Moving oily sheer OWN Algae es gal/min OR Lo	of the following (if yes clear	s, describe /Muddy Soapy Biology	in comments): Clarity? suds Debri	Clear □ s □ Oth	l Colored er (describe) ^L	9 Minimal 3 Franspavev
Odors? No Your None 12. Vegetation Part 3. Field Analyse 14. Flow 15. Previous observation	es Color? [Moving oily sheer Own dagag es gal/min OR □ Lo tions of baseline dry we	of the following (if yes clear Cloudy/ n Surface scum 13 ow Medium Cloudy/	s, describe in /Muddy □ Soapy 3. Biology _ □ High	in comments): Clarity? □ suds □ Debri	Clear □ s □ Oth	l Colored er (describe) / L	Transparer
Odors? No Your Your None 12. Vegetation Part 3. Field Analyse 14. Flow 15. Previous observation	es Color? [Moving oily sheer Own dagag es gal/min OR □ Lo tions of baseline dry we	of the following (if yes clear Cloudy/ n Surface scum 13 ow Medium Cloudy/	s, describe in /Muddy □ Soapy 3. Biology _ □ High	in comments): Clarity? □ suds □ Debri	Clear □ s □ Oth	l Colored er (describe) / L	Transparer
Odors? No Your None Floatables? None 12. Vegetation Part 3. Field Analyse 14. Flow 15. Previous observation 16. Is an illicit dischar	es Color? [Moving oily sheer Own AgaR es gal/min OR Date ions of baseline dry we rge suspected at the ou	of the following (if yes clear Cloudy/ n Surface scum 13 ow Medium Cloudy/ Medium Cloudy/ n Surface scum 13 ow Medium Cloudy/ n Surface scum	s, describe in American Ameri	in comments): Clarity? Suds Debri	Clear Doth	or (describe) Levelered.	ming out
Odors? No Your None Floatables? None 12. Vegetation Part 3. Field Analyse 14. Flow 15. Previous observation 16. Is an illicit dischar	es Color? [Moving oily sheer Own dagag es gal/min OR □ Lo tions of baseline dry we	of the following (if yes clear Cloudy/ n Surface scum 13 ow Medium Cloudy/ Medium Cloudy/ n Surface scum 13 ow Medium Cloudy/ n Surface scum	s, describe in American Ameri	in comments): Clarity? Suds Debri	Clear Doth	or (describe) Levelered.	ming out
Odors? No Your None Floatables? None 12. Vegetation Part 3. Field Analyse 14. Flow 15. Previous observation 16. Is an illicit discharation, proceed to next	es Color? [Moving oily sheer Own AgaQ es gal/min OR Lo ions of baseline dry we rge suspected at the ou outfall. If Yes, continue	of the following (if yes clear Cloudy/ n Surface scum 13 ow Medium Cloudy/ Medium Cloudy/ n Surface scum 13 ow Medium Cloudy/ n Surface scum	s, describe in American Ameri	in comments): Clarity? Suds Debri	Clear Doth	or (describe) Levelered.	ming out
Odors? No Your None Floatables? None 12. Vegetation Part 3. Field Analyse 14. Flow 15. Previous observation 16. Is an illicit dischalled in the content of the conten	es Color? [Moving oily sheer Mown dad es gal/min OR Lo ions of baseline dry we rge suspected at the ou outfall. If Yes, continue alyses	of the following (if yes clear Cloudy/ n Surface scum 13 ow Medium Cloudy/ n Surface scum 43 ow Medium Cloudy/ n Describe any addit Duplicate sample co	S, describe in American Americ	in comments): Clarity? Suds Debri	Clear De Oth	vetered. "sheen" Con the comments.	ming out
Odors? No Your None Floatables? None 12. Vegetation Part 3. Field Analyse 14. Flow 15. Previous observation 16. Is an illicit discharation of the proceed to next 17. Water Quality Analyse Parameter	es Color? [Moving oily sheer Mown dad es gal/min OR Lo ions of baseline dry we rge suspected at the ou outfall. If Yes, continue alyses Primary Sample	of the following (if yes clear Cloudy/ n Surface scum 13 ow Medium Cloudy/ n Surface scum 2021, ow Medium Cloudy/ eather flow? 2021, outfall? No Cloudy/ e. Describe any addit Duplicate sample co	Soapy Soapy Soapy High Also med Yes Coler Sional monit	in comments): Clarity? Suds Debri	Clear Decker	rer (describe) A westered. "sheen" Con flowing n comments.	ming out we ter
Odors? No OYO Floatables? None 12. Vegetation Part 3. Field Analyse 14. Flow 15. Previous observati 16. Is an illicit dischar If No, proceed to next 17. Water Quality An Parameter pH	es Color? [Moving oily sheer outfall. If Yes, continue alyses Primary Sample un	of the following (if yes clear Cloudy/ n Surface scum 13 ow Medium Cloudy/ n Surface scum 2021, ow Medium Cloudy/ eather flow? 2021, utfall? No Cloudy/ e. Describe any addit Duplicate sample co	S, describe of Muddy Soapy Soapy High Also meditional monitional monitional monitional monitional monitional monitional monitional monitional monitis	clarity? Suds Debri	Clear Decker	rer (describe) A Westered. "sheen" Con Aliwing n comments.	reshold
Odors? No OYO Floatables? None 12. Vegetation Part 3. Field Analyse 14. Flow 15. Previous observati 16. Is an illicit dischar If No, proceed to next 17. Water Quality An Parameter pH Total chlorine	es Color? [Moving oily sheer Ball Mark Moving oily sheer Ball Mark Moving oily sheer Ball Mark Moving oily sheer Ball Moving	of the following (if yes clear Cloudy/ n Surface scum 13 ow Medium Deather flow? 2021 / utfall? No Duplicate sample co Duplicate Sample co Duplicate Sample Co	s, describe in American services of the Ameri	in comments): Clarity? Suds Debri	becker becker mak units mg/L	Colored describe) describe) describe d	reshold or ≥ 9.0 mg/L
Odors? No Your None Floatables? None 12. Vegetation Part 3. Field Analyse 14. Flow 15. Previous observation 16. Is an illicit dischart 17. Water Quality Analyse Parameter pH Total chlorine Detergents	es Color? [Moving oily sheer M	of the following (if yes clear Cloudy/ n Surface scum 13 ow Medium Cloudy/ n Surface scum utfall? No Cloudy/ utfall? No Cloudy/ c. Describe any addit Duplicate sample co Duplicate Sample co	S, describe in American Muddy Soapy Soapy High Also med Yes Coler Sional monit Silected? mple units mg/L mg/L	clarity? Suds Debri	Clear D s Decke m of head one in ank units mg/L mg/L	Colored Lered "sheen" Continuing in comments. Program Th	reshold or ≥ 9.0 mg/L mg/L
Odors? No OYO Floatables? None 12. Vegetation Part 3. Field Analyse 14. Flow 15. Previous observati 16. Is an illicit dischar If No, proceed to next 17. Water Quality An Parameter pH Total chlorine	Moving oily sheer Moving oily	of the following (if yes clear Cloudy/ n Surface scum 13 ow Medium Deather flow? 2021 / utfall? No Duplicate sample co Duplicate Sample co Duplicate Sample Co	s, describe in American services of the Ameri	in comments): Clarity? suds Debri	Clear De Oth be of Commander of the Com	rer (describe) L Westered "sheer" Con flowing n comments. Program Th \$\leq 4.0 c \$\geq 1.0 \$\geq 1.0 \$\geq 1.0 \$\geq 1.0 \$\geq 1.0	reshold or ≥ 9.0 mg/L

Part 4. Comments

5 Clear weather

Do Good Do channel / "rectangular

Watershed: Ches	ter	Outf	all Number:568	Plan whenter
Part 1. General Infor	mation.		SERVICE CONTRACTOR OF THE SERVICE CONTRACTOR	handeli e gger pgog reg
1. Date 6/16/	23	Time	5	
2. Field Crew KG,			analyses conducted by	B, CT
3. Time since last rain	event	ours 🔯 Less than 4	8 hours 6/15/23 /	2:60 PM 1 1 20 1 1 1 1 1 1 1 1
4. Size of last rain eve	nt <u>0.01</u> inches	5. Measured at weather	station TS 1A	
Part 2. Visual Observ		The second secon	and the second s	
6. End of pipe diameters. 8. Photographs (include)	er 24 de camera name/#) i	7. Structural Condition	1: Good, HDPE	, smooth welled open flume
		□ No Yes		
		Yes If yes, depth o		
and the state of t		pertinent observations in c		
Odors? 디No 접Ye Floatables? 접None	metallically, "car exhaus s Color? D'Cle	following (if yes, describe i +'' ar	Clarity?	Colored <u>ter/ light brown</u> er (describe)
Part 3. Field Analyse	She, and Value is a light of	on St. Chin and Ongo lab	- an any office of the	and the proofing the entry of the
14. Flow	gal/min OR ØLow	☐ Medium ☐ High	seering with the highest	The second second second second
15. Previous observation	ons of baseline dry weather	rflow? no historical	data.	
16. Is an illicit dischar	ge suspected at the outfall outfall.	? 🗆 No 🔲 Yes 🥦 ഉം. പോ scribe any additional monit	entially Metal so orld have metal US oring recommendations in	mell from plastic pripe in system. comments.
17. Water Quality Ana	- mile view mile	icate sample collected?	KIND OF SELECTIONS	al james br>1914. <u>james james ja</u>
Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold
pH	7.1 units	6.8 units	units	≤ 4.0 or ≥ 9.0
Total chlorine	0 mg/L	() mg/L	0 mg/L	≥ 1.0 mg/L
Detergents	<1.2 mg/L	41.2 mg/L	O mg/L	≥ 1.0 mg/L
Total copper	f=0 /r=0 mg/L	F=0 /T=0 mg/L	free O/total Omg/L	≥ 1.0 mg/L
Total phenols	o mg/L الابارا NTU	ち mg/L りち NTU	mg/L 143 NTU	≥ 0.5 mg/L ≥ 250 NTU
Turbidity			UIN CFU	2 250 NTU
Temp 10,6°C	10.60°C	9.00€		Market selection of

Part 4. Comments

Flume down side slope, into

Weather - drizzle.

Resemple

Municipality of Anchorage APDES Monitoring Program

Watershed: _ Che.	ster	Out	fall Number: <u>568</u>	-1 Resemple
Part 1. General Info	ormation.	1 N -4 5 0		the strong of the same proof of
1. Date <u>6/19/</u>	2 3	Time 1635	ar annual mer says o	· parada para 1 to
2. Field Crew <u>KG</u> ,	ck	Water quality	analyses conducted by	y KG
3. Time since last rai	n event 🖄 More than 48 h	ours 🗆 🗆 Less than 4	18 hours 6/16/23	13:003Pm
4. Size of last rain ev	rent <u>0.64</u> inches	5. Measured at weather	station TSIA	August 1994 - Coulles ins
Part 2. Visual Obse	rvations	original and the second	and of the second	a vieta i ragionio se stat
 End of pipe diame Photographs (incl 	eter <u>24"</u> ude camera name/#) <u>i Pod</u>	7. Structural Conditio	n: Good, HDPE, S	open flume.
	ling under DWS Program?		garana ya jengay Magazaran	า ค.ศ. 16 การ - พ รุสสาธาราช 190 สิทธิภาพิธี 1700 ริสาทิสาราสาธาราช
	om end of pipe? 🗆 No 🗓		of water in end of pipe	1 1 1
	hs of outfall and record any		or well-consisted Libertine in the	
Odors? □ No	ing water exhibit any of the Wash water Vestreatment Color? Cle Smell Moving oily sheen A None	ear 🖾 Cloudy/Muddy	Clarity? ☑ Clear	the state of the s
Part 3. Field Analys	es	San Strain on Charles	er, karang wang ka	Seading Wille a series
14. Flow	gal/min OR Low	☐ Medium ☐ High		i. Pad koa i sambina men
			-1 -1-1	ing digression in the construction and
	tions of baseline dry weathe	1 10 90 ve 1/1 100 100		ant my to dia an ani indian
16. Is an illicit discha	arge suspected at the outfall	I? □ No □ Yes, Ke;	sampling	ay bada gayas ono shor
Call at the party and	t outfall. If Yes, continue. De	scribe any additional moni	toring recommendation	ns in comments.
If No, proceed to next		licate sample collected? D	No □Yes ⋈/A	safe hall, arrows a color harrow
	nalyses Dup	5 "Ulfollow we sturn book on a magnitude.		
	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold
17. Water Quality A	STATE OF STA	An Addition additions as a	Equipment Blank uni	Program Threshold
17. Water Quality A	Primary Sample	Duplicate Sample		Program Threshold its ≤ 4.0 or ≥ 9.0
17. Water Quality An Parameter pH	Primary Sample units	Duplicate Sample units	uni	Program Threshold
17. Water Quality Al Parameter pH Total chlorine	Primary Sample units mg/L	Duplicate Sample units mg/L	uni O mg	Program Threshold ts ≤ 4.0 or ≥ 9.0 /L ≥ 1.0 mg/L /L ≥ 1.0 mg/L
17. Water Quality Al Parameter pH Total chlorine Detergents	Primary Sample units mg/L >1.2 mg/L	Duplicate Sample units mg/L mg/L	uni o mg o mg	Program Threshold

Part 4. Comments

lower flow during resample than primary & duplicate on 6/16/23

Municipality of Anchorage APDES Monitoring Program

Do not

Watershed:	ester	Out	fall Number: 574	The charge of hear
Part 1. General Infor	mation.	40.0	and way	er kala bilbali in na etil sytt
1. Date	2023	Time_\0.1	5	
2. Field Crew K6	AB CT	Water quality	analyses conducted by	N/A
3. Time since last rain	event	ours 🖫 Less than 4	18 hours 6/15/23	12:00PM
4. Size of last rain eve	nt <u>0.01</u> inches	5. Measured at weather	station TSTA	199 - Halley of the leaf
Part 2. Visual Observ	ations	A 0	12 - 13 M	esser i i repayore di profes
6. End of pipe diamete	er_N/A	7. Structural Condition	n: HDPE	Harris de Maria de Paris de Propinsión de Propinsión de Propinsión de Propinsión de Propinsión de Propinsión d En companya de Propinsión
8. Photographs (include	de camera name/#)	sad	· · · · · · · · · · · · · · · · · · ·	, promotynak i kie
		☑No ☐Yes <u>Co-mut</u>	ed w/ skeam	Albani Soula Pro lea del
	m end of pipe? ☐ No ☐		of water in end of pipe	
If No, take photograph	s of outfall and record any	pertinent observations in o	comments. If Yes, continue.	
		following (if yes, describe		
	To Subant to Distance		an miligi it lend big gja silgjes	The Administration of the Administration
Odors? ☐ No ☐ Ye	s Color? □ Cle	ear 🗆 Cloudy/Muddy	Clarity? □ Clear □	Colored
Floatables? ☐ None	☐ Moving oily sheen ☐	☐ Surface scum ☐ Soapy	suds □ Debris □ Oth	er (describe)
12. Vegetation	28 No. 2 10 10 10 10 10 10 10	13. Biology	. 1981 pelada atras Francis	distributed a literal
Part 3. Field Analyse	State of the North American State of the Sta	a tima podovene <u>sa 47 s</u> Sonta da esta podra da 1980 in	dis ann san a stairt backnall a cliga an ad tallagia	to maga antique i ausa sals. grif (66 - 21 man <u>a</u> 11 fe C1 - 4
1 1 1		☐ Medium ☐ High	N/A . Florage	the field of account
				and a series of the series
15. Previous observation	ons of baseline dry weathe	er flow? no historical	deta.	and the state of the second
16. Is an illicit discharg	ge suspected at the outfall	? □ No □ Yes	MA . The state of	
If No. proceed to next of	outfall. If Yes. continue. De	scribe any additional moni	torina recommendations in	comments.
	harman friedrich	a menter result in the real agenticity	Street of the second of the second	
17. Water Quality Ana	alyses Dup	licate sample collected?	No □ Yes NA	of Earth Charles of Charles of
Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold
pН	units	units	units	≤ 4.0 or ≥ 9.0
Total chlorine	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Total copper	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Total phenols	mg/L	mg/L	mg/L	≥ 0.5 mg/L
Turbidity	NTU	NTU	NTU	≥ 250 NTU

Part 4. Comments

Ly Went to conver of Deborr 3 Mildoon
by storm co-routed up chester creek
by did not investigate current

Municipality of Anchorage APDES Monitoring Program

Wa	ntershed:	& Fish	Out	fall Number: 389	5-197	
Par	rt 1. General Info	rmation.		- pareral rag tun		alle at
	Date 6/10		Time BA	BAN 1334 13	:.34	
	Field Crew		Water quality	analyses conducted by	Part of the state	1
3.	Time since last rain	n event 🖾 More than 48 h	ours 🗆 Less than 4	8 hours 6/16/23	3:00	
4.	Size of last rain eve	ent <u>0.04</u> inches	5. Measured at weather	to ware a charge this describes	a na , statut si sa samua ———————————————————————————————————	
Par	rt 2. Visual Obser		रुक्त स्थाप्त हो या अस्तात स्थापना स्थापना	Good pipe conditi	On	07.7
6.	End of pipe diame	ter36 \\	7. Structural Condition	n: lined Clay, rus	tin collar	(148)
8.	Photographs (inclu	ude camera name/#)WN	r	10.1346	Age Charles as grant	
9.	Suitable for sample	ing under DWS Program? [□ No XYes	Figure 25 cuest survey.		146.14
		om end of pipe? No	Alian Maria Maria and Carlo Carlo Carlo	of water in end of pipe $\frac{9}{2}$		
		hs of outfall and record any	illing and the second of the s			
		ing water exhibit any of the wetallic seconds Color? ACle	following (if yes, describe ≤ 1 cloudy/Muddy	in comments): Clarity? □ Clear	Stistly Stistly	yelo
Floa	atables? 🗆 None	☐ Moving oily sheen	¶Surface scum ☐ Soapy	suds □ Debris □ Oth	er (describe) thick oi	NSK
		teadsgrand an edge e			da Sin	
	rt 3. Field Analys		a deport i pries bent	erat reigio actions e e z	di Panalle, South	od Th
14.	Flow	gal/min OR □ Low	□ Medium □ High	I/A		
		ions of baseline dry weathe			back watered.	
			. /	2014 83301 2021	descripting to the engineering	L. j. k
16.	Is an illicit discha	rge suspected at the outfall	? ☑No ☐ Yes	outstand and an any		
If N	lo, proceed to next	outfall. If Yes, continue. De.	scribe any additional moni	toring recommendations in	comments.	
17.	Water Quality Ar	nalyses Dupl	icate sample collected? □] No □ Yes 宀/♠		
	Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold	10.481
	рН	units	units	units	≤ 4.0 or ≥ 9.0	
	Total chlorine	mg/L	mg/L	mg/L	≥ 1.0 mg/L	71
	Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L	1 18
	Total copper	mg/L	mg/L	mg/L	≥ 1.0 mg/L	real real
	Total phonois	ma/l	mg/l	mg/l	>05 mg/l	

≥ 250 NTU

Part 4. Comments

Turbidity

Ly Clear - weather

Collar is in poor condition

Municipality of Anchorage APDES Monitoring Program

Watershed:	5N	-	Out	fall Number: _	388	-201
Part 1. General Info	ormation.				The IP's series	When I have been a suppressed
1. Date	19/2023		Time 4	DA 13:17	2	
2. Field Crew		1 =	3 A2500	v analyses condu	cted by	WN
3. Time since last rai	SP 1911	than 19 ha		18 hours 6/16		
				Committee and City	ka esaggio	
4. Size of last rain ev	vent <u>૦.૦૧</u> i	nches	Measured at weather	stationTS	EA	un en the see that the form of the
Part 2. Visual Obse	rvations		Arthur Lieby Lieb British	1000 5	fructural	coude, collar is rusted
			7. Structural Condition	in tots of	alumin	um depoits lined da
6. End of pipe diame	eter	l /	1.1 T Dhong			K6,04/18
8. Photographs (incl	ude camera name,	/#)	IN, I phone	or right at the fe		(See note below
9. Suitable for samp	ling under DWS Pr	ogram? □	No Yes	La procil senti	l in albada	i ^a mari yan dia ya hasaran
10. Water flowing fr		rajeri in ing p	Yes If yes, depth	of water in end o	f pipe	9" back watered.
If No. take photogram	hs of outfall and re	ecord any r	pertinent observations in (
	,				Military 1977	
11. Does the discharg	ging water exhibit a	any of the f	ollowing (if yes, describe ight) yellow r Cloudy/Muddy	in comments):		i i paring iljumang i saydiredi. Teresalida dalah kesala salah salah sa
Odors? 🗆 No 💢	res Metalic Colo	or? DClea	r 🗆 Cloudy/Muddy	Clarity? 🗖	Clear 🗆	Colored
Maritine . A comme	Stagnant	oily sh	Surface scum Soapy 13. Biology	DUA	Se Think	ranang ingilik sahi
12. Vegetation	Charles Several and Assets	d madama Leli	13. Biology	050		Adding ad
Part 3. Field Analys	es in a labeled to be	out relation	ni y seram iok) Imisi		a de car	sinigerada apara sa a a a
					I be for	
14. 110W	gai/IIIII OK	Arow .	□ Medium □ High	my, son o miles	d authori	s crop worth to large out to come
15. Previous observa	tions of baseline di	ry weather	flow? montored 201	4, 2017, 202	I, book	watered.
16. Is an illicit discha	arge suspected at t	he outfall?	No □ Yes			
			cribe any additional moni	taring racommar	dations in	comments
ij No, proceed to next	outjuit ij res, con	itinue. Desc	.ribe any additional moni	toring recommen	iuutions in	comments.
17. Water Quality A	nalyses	Duplio	cate sample collected?	I No □ Yes		
Parameter	Primary Sampl	e	Duplicate Sample	Equipment Bla	ank	Program Threshold
pН	B. 7.0	units	units		units	≤ 4.0 or ≥ 9.0
Total chlorine	0.0	mg/L	mg/L	0	mg/L	≥ 1.0 mg/L
Detergents	0	mg/L	mg/L	0	mg/L	≥ 1.0 mg/L
Total copper	F=0 T=0	mg/L	mg/L	F=0 T=0	mg/L	≥ 1.0 mg/L
Total phenols	0	mg/L	mg/L	0	mg/L	≥ 0.5 mg/L
Turbidity	23.4	NTU	NTU	0.48	NTU	≥ 250 NTU

Part 4. Comments

La tlear weather

Iron deposits around outfall

Some sort of pipe liner present, perhaps a ceramic type material.

Municipality of Anchorage APDES Monitoring Program

Wa	atershed:	Sigh	Out	fall Number:5	55-1
	rt 1. General Info		Time DC	13/14:13	mir mir om group Go. 1885 het gerin stijk to
	Field Crew	4		analyses conducted by	
3.	Time since last rai	n event More than 48 h	ours 🗆 Less than 4	18 hours 6/16/23	13:00
4.	Size of last rain ev	ent 0.04 inches	5. Measured at weather		m. 43c. Ly a a final actual
Pa 6. 8.	rt 2. Visual Obser	rvations ster	7. Structural Condition	n: HDPE, good), gross and t
9.	Suitable for sampl	ing under DWS Program?	□ No MYes if fi	owing	the state of the s
10	Water flouing fr	om end of pipe? No [Type If you don't ha	of water in and of nine skiel	Lange of the same
			The State of		
If N	lo, take photograp	hs of outfall and record any	pertinent observations in o	comments. If Yes, continue.	reflestV out and Whata is not a
Od Flo	ors? ☑No ☐Y atables? ☐ None	☐ Moving oily sheen ☐	ear □ Cloudy/Muddy □ Surface scum □ Soapy	Clarity? ☐ Clear ☐ suds ☐ Debris ☐ Oth	er (describe)
12.	Vegetation	N. J. Jan. Inv. Inv. Inv. Street and the	13. Biology		<u> </u>
Pa 14. 15.	rt 3. Field Analys Flow Previous observat	es gal/min OR □ Low tions of baseline dry weathe	□ Medium □ High er flow? <u>2019 คงกับ</u>	N/A	griculpation in magazine service. The resident the first service is a service of the service of
		rge suspected at the outfall outfall. If Yes, continue. De	A management that are the first than the		comments.
	. Water Quality Ar		licate sample collected?		
	Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold
	pН	units	units	units	≤ 4.0 or ≥ 9.0
	Total chlorine	mg/L	mg/L	mg/L	≥ 1.0 mg/L
	Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L
	Total copper	mg/L	mg/L	mg/L	≥ 1.0 mg/L
	Total phenols	mg/L	mg/L	mg/L	≥ 0.5 mg/L
	Turbidity	NTU	NTU	NTU	≥ 250 NTU

Part 4. Comments

Ly Clear dot - weather: Some rocks, mud, stagnant water in pape

Municipality of Anchorage APDES Monitoring Program

Vatershed: FUP	POW CREEK	Out	fall Number: 9-1	wild sing and make may	
Part 1. General Info	rmation.		enger armet en en alla en et el		27 MT
. Date 0016	2023	Time 10:	30 AM		
. Field Crew <u>FC</u>		Water quality	analyses conducted by	Ka	1 x 1
. Time since last rai	n event 🛚 More than 48 h	nours 🗆 Less than 4	18 hours 6/13/23 3	100Am	
. Size of last rain ev	ent <u>6.23</u> inches	5. Measured at weather	station TSIA	Process of the State of the Sta	10 10 10 10 10 10 10 10 10 10 10 10 10 1
Part 2. Visual Obse	vations	18 W JARP	Бала в възвания за пять	vii rassidanis ga	
. End of pipe diame	rvations ter 8 NOH C	7. Structural Condition	on: FATE Good		i todii
. Photographs (inclu	ude camera name/#)	IPAD.		tergajah See	ciudit
*	ing under DWS Program?	□ No MYes GW Inf	. Suspected.	and the state of t	<u></u>
	om end of pipe? □ No 🏌	or a Wall Company		5. IN(+)	
	er on the second of the second of the				
No, take photograp	hs of outfall and record any	pertinent observations in (comments. If Yes, continue.		
1. Does the discharg	ing water exhibit any of the	e following (if ves. describe	in comments):		
dors? \\\	es Color? 🛱 Cl	ear Cloudy/Muddy	Clarity? Д\Clear □	Colored	
loatables? None	☐ Moving oily sheen [☐ Surface scum	suds □ Debris □ Oth	er (describe)	
C.000	☐ Moving oily sheen [Som	E DUNGTREAM		
2. Vegetation 7011	E GPN MUSS	13. Biology	MONE	<u> </u>	<u> </u>
art 3. Field Analys	es			anicago reservir de contracto	
4. Flow	gal/min OR □ Low	Medium □ High	2017 sampled for fe	cal. & exceeded.	
5. Previous observat	ions of baseline dry weathe	er flow? 2012, 2017, 201	19. Similar flow &	condition of pipe	00 20
	rge suspected at the outfal	of the Name of States and States and			ep niël La Sata
		and the second of the first			
No, proceed to next	outfall. If Yes, continue. De	escribe any additional moni	toring recommendations in	comments.	
7. Water Quality Ar	nalyses Dup	licate sample collected?	□ No □ Yes ^Ŋ /A	and the first of the same	
17.25	Thirty was life in sections.	all elaphers a learning	to the property of the propert	Program Threshold	TE.
Parameter	Primary Sample	Duplicate Sample	Equipment Blank		8-2
pH ·	フ・フ units	units	units mg/L	≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L	10-2
Takal alitabilia	·		ı mg/L		⊣ ັ
Total chlorine	mg/L	mg/L			
Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L	
Detergents Total copper	mg/L mg/L	mg/L mg/L	mg/L mg/L	≥ 1.0 mg/L ≥ 1.0 mg/L	
Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L	

Part 4. Comments

GOOD DEFINED DS CHANNEL.

COLLAP BENT

FLOWS OFF EAST SIDE.

ACCESSIBLE ON PED TRAIL!

WEATHER ~ DF122LE

Municipality of Anchorage APDES Monitoring Program

Watershed:	UP	Out	fall Number: 34	-20
Part 1. General Info	ormation.		of many	
1. Date 00/15	2023	Time	:90	
2. Field Crew			analyses conducted by	N/A
. ,	n event More than 48 h	ours 🗆 Less than 4	18 hours 6/13/23 3	3:00AM.
	5 (m)		Communication of the control of the	nga , Astrode desirability
4. Size of last rain ev	rent <u>0.23</u> inches	5. Measured at weather	station TSAA	No object of the same of the
Part 2. Visual Obser	rvations	Smith to tember and mile party	See The See See See See See See See See See S	State of the state
6 End of nine diame	eter 18 INCH	7 Structural Condition	n. Int Good	
			11.	Manufacture and a Manufacture
8. Photographs (included)	ude camera name/#) <u> P</u>			TOTAL MANAGEMENT OF THE
9. Suitable for sampl	ling under DWS Program? [□ No ☑ Yes if was fl	owing.	ga – jet i podekta <u>– trad</u>
	om end of pipe? No □	일 발생들이 보세는 ^ 11 시험에 발생되었다		5일 3 - 1 : - 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 :
and the state of the second state of	Photo and Toolanna verbland			
If No, take photograp	hs of outfall and record any	pertinent observations in o	comments. If Yes, continue.	
11. Does the discharg	ing water exhibit any of the	following (if yes, describe	in comments): NA.	On a management of the Singa
			their car who are the care	Colored
Odors? ☐ No ☐ Y	es Color: Li Cle	ear 🗆 Cloudy/Muddy	Clarity? ☐ Clear ☐	colored
Floatables? ☐ None	☐ Moving oily sheen ☐	☐ Surface scum ☐ Soapy	suds □ Debris □ Oth	er (describe)
12. Vegetation _ G	rasses & horsetail in a	rea . 13. Biology		No el-Stron
Part 3. Field Analys	night of a street of the section	it form estation is a provide section of the section of the	na transmina (1965) na transmina (1965)	The state of the s
			A The spirit in the spirits and Market spirits.	n aven in enngenn mån i milli vir. I i
15. Previous observat	tions of baseline dry weathe	rtlow? no historical	data.	se edada — A dala
16. Is an illicit discha	arge suspected at the outfall	? ⊠No □ Yes	rae plokughilbatka uz i	
If No proceed to next	t outfall. If Yes, continue. De	scribe any additional moni	torina recommendations in	comments
		PROPERTY OF THE PROPERTY OF TH	A CALL STORY	
17. Water Quality Ar	nalyses Dupl	icate sample collected?	I No □ Yes	the commence of the control of
Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold
рН	units	units	units	≤ 4.0 or ≥ 9.0
Total chlorine	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Total copper	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Total phenols	mg/L	mg/L	mg/L	≥ 0.5 mg/L

Part 4. Comments

SELDOM SEDIMENT BULD UP 2/4 FULL IN PRANAGE ALLE SWALE

WEATHER - DRIZZELE.

Wa	atershed: Ho	od	Out	fall Number:	-218
Pa	rt 1. General Info	ormation.	์	h i managa panggan sa sagas	tana ara-ara-ara-ara-ara-ara- Masa kagawangan dan Araba sa
1.	Date	912023	Time 12'	5	and the state of the best
	Field Crew			analyses conducted by	in the second of
	1. 1.	in event 🖾 More than 48 h	ours 🗆 Less than	18 hours 6/16/23	13:00
4.	Size of last rain ev	vento.o.\inches	5. Measured at weather	station TSTA	
	rt 2. Visual Obse		AND THE PROPERTY OF THE PARTY OF THE PARTY.	ra - yanna ento estano,	20.4 th model the region desired to the field of
6.	End of pipe diame	eter 24"	7. Structural Condition	m: HAPE, W/HDP	Edlar, grotes or
8.	Photographs (incl	ude camera name/#)	WN, IPPORE		the minimum of the freeze,
9.	Suitable for samp	ling under DWS Program?	□ No 🌣 Yes	i di Wasani i kasa di ala 11	greatering a distinguish of reference
10	Water flowing fr	om end of nine? \square No	TVes If yes, denth	of water in end of nine	2 × 2"
If N	lo, take photograp	hs of outfall and record any	pertinent observations in	comments. If Yes, continue	outle of the life of the street is
11.	Does the discharg	ing water exhibit any of the	following (if yes, describe	in comments):	Constitution (traditional)
Od	ors? XÎNo □Y	/es Color? ⊠ Cle	ear Cloudy/Muddy	Clarity? ☐ Clear □	Colored
		•			er (describe) Trov of Apos
12.	. Vegetation	Sowe weeds	13. Biology	Marke or All Mark	and the second
Do	wt 2 Field Applys	00			mel Comment of Allert Comment
	-1	part dipologically profession	Madium Duigh	Tage of the algebraic	Professional of application per
14.	. Flow	gal/min_OR_LLow tions of baseline dry weathe	& sempl	ed with up where applicated	
15.	. Previous observat	tions of baseline dry weathe	r flow? Monitored 2013, s	2018, 2020. No exceed	ances.
16.	. Is an illicit discha	arge suspected at the outfall	? ☑No ☐ Yes	S Chille a time have	
		t outfall. If Yes, continue. De			
		entrate describer in a service	Street Street Street Street Street		comments.
17.	. Water Quality A	nalyses Dupl	icate sample collected?	I No □ Yes P/A	
	Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold
1	рН	units	units	units	≤ 4.0 or ≥ 9.0
	Total chlorine	mg/L	mg/L	mg/L	≥ 1.0 mg/L
	Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L
11	Total copper	mg/L	mg/L	mg/L	≥ 1.0 mg/L
	Total phenols	mg/L	mg/L	mg/L	≥ 0.5 mg/L
	Turbidity	NTU	NTU	NTU	≥ 250 NTU

Part 4. Comments

La some garbage on grates

Municipality of Anchorage APDES Monitoring Program

Do	not
Coc	nt

			fall Number:	
rt 1. General Info		164	1 70 h mit gedgam i diff.	
Date(0)\^4	17000	Time	111	
Field Crew	72,41	Water quality	analyses conducted by	
Time since last rai	n event More than 48 h	nours 🗆 Less than 4	48 hours 6/16/23	13:00
Size of last rain ev	rent 0.04 inches	5. Measured at weather	stationTSTA	engapi ku ja kurajiyaan markata ja ilitaa
rt 2. Visual Obse	rvations	garan ^{a y} arra sawa ana kamaan ^a samp	the by attack to state a few	ar ar enganguran ar et e
End of pipe diame	eter could not access	7. Structural Condition	on:	
Photographs (incl	ude camera name/#)		- 1 1 × 1 × 1	and an artiful di
Suitable for samp	ling under DWS Program?	□No □ Yes Prival	he property / fince	and the second of the second
	om end of pipe? ☐ No ☐		The state of the s	
lo, take photograp	hs of outfall and record any	pertinent observations in o	comments. If Yes, continue	aling Space (Galler ad. 2
Does the discharg	ing water exhibit any of the	e following (if ves. describe	in comments):	Na
	'es Color? □ Cle	right is not if each in each wearing a		
atables? None	☐ Moving oily sheen ☐	☐ Surface scum ☐ Soapy	suds □ Debris □ Oth	er (describe) N/A
Vegetation		13. Biology		I EVII
		Mar la pullada Antana ever Alia		Track post of the
rt 3. Field Analys	es AN bases			
rt 3. Field Analys		□ Medium □ High		g garanna sé a la saigean Aigeirtí ga la sagair a la
Flow	gal/min OR □ Low	☐ Medium ☐ High	N/A	
Flow	gal/min OR □ Low cions of baseline dry weathe	☐ Medium ☐ High er flow? Montored 2016,	N/A 2018, 2019, 2020. J	empled East Est
Flow	gal/min OR □ Low	☐ Medium ☐ High er flow? Montored 2016,	N/A 2018, 2019, 2020. J	compled East Est
Flow Previous observat	gal/min OR □ Low cions of baseline dry weathed at the outfall	□ Medium □ High er flow? Montored 2016, I? □ No □ Yes NA	2018, 2019, 2020. J 2018 W/ No exceedan	ce.s.
Flow Previous observate. Is an illicit discha	gal/min OR □ Low cions of baseline dry weather green suspected at the outfall coutfall. If Yes, continue. De	□ Medium □ High er flow? Montored 2016, 1? □ No □ Yes DA escribe any additional monit	N/A 2018, 2019, 2020. S 2018 W/ No exceedan toring recommendations in	ce.s.
Flow Previous observators is an illicit dischange in the second in the second is a second in the second i	gal/min OR □ Low cions of baseline dry weather arge suspected at the outfall coutfall. If Yes, continue. De nalyses Dupl	□ Medium □ High er flow? Montored 2015, I? □ No □ Yes No escribe any additional monitational m	2018, 2019, 2020. 3 2018 W/ No exceedantoring recommendations in	ceus.
Flow Previous observate. Is an illicit discha	gal/min OR Low cions of baseline dry weather arge suspected at the outfall coutfall. If Yes, continue. De nalyses Dupl Primary Sample	□ Medium □ High er flow? Montored 2011. Property of the Prop	2018, 2019, 2020. 3 2018 W/ No exceedantoring recommendations in No Yes P/A Equipment Blank	comments. Program Threshold
Flow Previous observatories is an illicit discharctories for the proceed to nextories. Water Quality Arameter	gal/min OR □ Low cions of baseline dry weather arge suspected at the outfall coutfall. If Yes, continue. De nalyses Dupl	□ Medium □ High er flow? Montored 2015, I? □ No □ Yes No escribe any additional monitational m	2018, 2019, 2020. 3 2018 W/ No exceedantoring recommendations in	ceus.
Flow Previous observatories an illicit dischance of the next of the control of the contr	gal/min OR Low cions of baseline dry weather arge suspected at the outfall coutfall. If Yes, continue. De nalyses Dupl Primary Sample units	□ Medium □ High er flow? Montored 2016, Pontored 2016, Pontored 2016	2018, 2019, 2020. S 2018 W/ No exceedan toring recommendations in No Yes P/A Equipment Blank units	comments. Program Threshold ≤ 4.0 or ≥ 9.0
Flow Previous observatories an illicit dischance of the control of the co	gal/min OR Low tions of baseline dry weather trge suspected at the outfall toutfall. If Yes, continue. De nalyses Dupl Primary Sample units mg/L	□ Medium □ High er flow? Montored 2016, 1? □ No □ Yes No escribe any additional monitational m	2018, 2019, 2020. S 2018 W No exceedant toring recommendations in No Yes P/A Equipment Blank units mg/L	Program Threshold ≤ 4.0 or ≥ 9.0 ≥ 1.0 mg/L
Flow Previous observatory is an illicit discharge of the second	gal/min OR Low cions of baseline dry weather arge suspected at the outfall coutfall. If Yes, continue. De nalyses Dupl Primary Sample units mg/L mg/L	□ Medium □ High er flow? Montored 2011. I? □ No □ Yes No escribe any additional monitalicate sample collected? □ Duplicate Sample units mg/L mg/L	2018, 2019, 2020. 3 2018 W/ No exceedant toring recommendations in Part Part Part Part Part Part Part Part	Program Threshold $\leq 4.0 \text{ or } \geq 9.0$ $\geq 1.0 \text{ mg/L}$ $\geq 1.0 \text{ mg/L}$
Flow Previous observatory Is an illicit discharged to nextory Water Quality Are Parameter pH Total chlorine Detergents Total copper	gal/min OR Low cions of baseline dry weather arge suspected at the outfall coutfall. If Yes, continue. De nalyses Dupl Primary Sample units mg/L mg/L mg/L	Medium High High High High Montord 2011, No Yes Montord 2011, Yes Montord 2011, Yes Montord 2011, It is not provided and prov	2018, 2019, 2020. 3 2018 W/ No exceedant toring recommendations in Signature Standard Standar	Program Threshold $\leq 4.0 \text{ or } \geq 9.0$ $\geq 1.0 \text{ mg/L}$ $\geq 1.0 \text{ mg/L}$ $\geq 1.0 \text{ mg/L}$
Previous observated in the service of the service o	gal/min OR Low cions of baseline dry weather arge suspected at the outfall coutfall. If Yes, continue. De nalyses Dupl Primary Sample units mg/L mg/L mg/L mg/L	□ Medium □ High er flow? Montored 2016, I? □ No □ Yes No escribe any additional monitational	2018, 2019, 2020. S 2018 W/ No exceedant toring recommendations in No Yes YA Equipment Blank units mg/L mg/L mg/L mg/L	real program Threshold

Could not access on either end is too marshy! Drushy on southside is private ferred off proporty on northside

Watershed:	p Creek	Out	fall Number: 248	<u> </u>
Part 1. General Info	ormation.	v l make in a constant	11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
1. Date 6/19	2	Time 16:	CVI	a tadisan " a saang optopi (bakanta " optopi (basanta) (basanta)
2. Field Crew	N, C	Water quality	y analyses conducted by	The Confidence of the Confiden
3. Time since last rai	in event 🔟 More than 48 h	nours 🔲 Less than	48 hours	
4. Size of last rain ev	vent <u>0.04</u> inches	5. Measured at weather	station TSTA	er age 1927 - 1707 Juntin sy
Part 2. Visual Obse	rvations	aviole ignicional	ere and an one and	AT A WATER SET TO THE SET OF T
6. End of nine diame	ter (6 ¹)	7 Structural Condition	n. CM, 9000	, under debris, aste
	1	UN, TPhone))	teranguage adderes sad
	te parte, — steam for "girlige trave	· · · · · · · · · · · · · · · · · · ·	din service de la companya	
9. Suitable for sampl	ling under DWS Program?	□ No Y Yes	Abor harry was conduct	ritasta mala, Johan Manay
10. Water flowing from	om end of pipe? 🗆 No 🕽	Yes If yes, depth	of water in end of pipe	711
	hs of outfall and record any			The second of th
				Pilika Africo militrakoan sida di afi
	ring water exhibit any of the			Hard A. January and C.
Odors? □ No 💆 Y	es Musty Color? A Cle	ear □ Cloudy/Muddy	Clarity? ☐ Clear ☐	Colored
* C C	☐ Moving oily sheen ☐			
	freel moss I deal			bette and and Alberta
Part 3. Field Analys		c. by a service and it has	in the second control of the second	AND THE AND THE SECOND STREET
		DA Adison		to of the self-sentence and
	gal/min OR 🗆 Low			if the starting tree along the
15. Previous observat	ions of baseline dry weathe	er flow? montored 2012,	2016, 2018, 2020.	Sampled 2012 4:2020
16. Is an illicit discha	arge suspected at the outfall	I? MNo □ Yes	/ no excudances.	2020 back watered.
		the base and the contract of		character and the control of the con
If No, proceed to next	t outfall. If Yes, continue. De	escribe any additional moni	toring recommendations in	i comments.
17. Water Quality Ar	nalyses Dup	licate sample collected?	INo □Yes P/A	
Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold
рН	units	units	units	≤ 4.0 or ≥ 9.0
Total chlorine	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Total copper	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Total phenols	mg/L	mg/L	mg/L	≥ 0.5 mg/L
Turbidity	NITH	NITH	NITH	> 2EO NTU

Part 4. Comments

5 Clear neather

Dry Weather Screening Field Data Form

Municipality of Anchorage APDES Monitoring Program

Watershed: 5hip Outfall Number: 436-1					
Part 1. General Info	ormation.	Tara Nanana		Service of the servic	
1. Date 6/19/		Time	:02	in the section of the section of the	
2. Field Crew	IN, CT	Water quality	analyses conducted by	The section of the section of	
3. Time since last rai	n event 🛮 More than 48 h	nours 🗆 Less than 4	48 hours 6/16/23	13:00	
4. Size of last rain ev	ent 0.04 inches	5. Measured at weather	station TSIA	Andrew John Strategy	
Part 2. Visual Obse	rvations	STATE OF THE STATE	n de la jour de la contraction de la c		
6. End of pipe diame	ter 24"	7. Structural Condition	on: CMP, Good	ingligion (3) being to	
8 Photographs (incl	ude camera name/#)	UN, IPhove		The reality agents that the	
9 Suitable for sample	ing under DWS Program?	DNo Aves IF	Flowing	na ar e kiri a pipaka ahar sana Tanan na masa a Makasa Sara s	
				Sign water to the plant for the	
10. Water flowing fro	om end of pipe? 🕱 No 🏻 🛚	」Yes If yes, depth	of water in end of pipe		
If No, take photograp	hs of outfall and record any	pertinent observations in o	comments. If Yes, continue	일하다 하나 사이를 다 없는 것이 되는 것 같다. 생산으로 하나 사이를 보고 있는 것이다.	
11. Does the discharg	ing water exhibit any of the	following (if yes, describe	in comments): N/A	air - Mengish re de	
Odors? □ No □ Y	'es Color? □ Cl	ear Cloudy/Muddy	Clarity? ☐ Clear ☐	Colored	
Floatables? None	☐ Moving oily sheen ☐	☐ Surface scum ☐ Soapv	suds □ Debris □ Oth	er (describe)	
	ant the old place of the con-	After the fire of the control of the	the state of the s	a de la light provider de la laborie.	
		In the state of the sea of the			
Part 3. Field Analys	es			hat a traded profession of	
14. Flow	gal/min OR □ Low	☐ Medium ☐ High	NA		
		And the second s		moled in 2014 & 20	
25. Trevious observat	and the second of the second	w n	s exceedances. See	mpled in 2014 & 20	
16. Is an illicit discha	rge suspected at the outfall	I? MO ☐ Yes	post.		
If No, proceed to next	outfall. If Yes, continue. De	scribe any additional moni	toring recommendations in	comments.	
17. Water Quality Ar	nalyses Dup	licate sample collected?	No □Yes N/A		
Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold	
рН	units	units	units	≤ 4.0 or ≥ 9.0	
Total chlorine	mg/L	mg/L	mg/L	≥ 1.0 mg/L	
Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L	
Total copper	mg/L	mg/L	mg/L	≥ 1.0 mg/L	
Total phenols	1.				
Total pricios	mg/L	mg/L	mg/L	≥ 0.5 mg/L	

Part 4. Comments

La clear weather

Dry Weather Screening Field Data Form Municipality of Anchorage APDES Monitoring Program

Watershed: 5h		Out	fall Number: 5	
Part 1. General Inf	ormation.	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	er in the same of the	
L. Date	9/2023	Time	2119	
	TWN		Giliyes in a wedi	ar mayaraga ya esakulu. Maran mahararan 18
2. Field Crew	71 1 4 4 7	Water quality	analyses conducted by	John Wallet Committee
3. Time since last ra	in event 🖾 More than 48 h	ours 🗆 Less than 4	18 hours 6/16/23	13:00
l. Size of last rain e	vent <u>०.०५</u> inches	5. Measured at weather	station TSIA	- us and third
Part 2. Visual Obse	ervations	planta at the second	Strategisters of Maria	Approved the solutions of
End of nine diam	eter	7 Structural Conditio	CMP, large	tocks in pipe
. Life of pipe diam	etel	_ / Structural condition	Potential dan	rege inside pipe.
. Photographs (inc	lude camera name/#)	MIN TIME	with the series of the series of	# 122 ma 187/hr /C 43
. Suitable for samp	oling under DWS Program?	No □ Yes	Time of the property of	овин невлиром Романски
0. Water flowing f	rom end of pipe? ☐ No 🂆	Yes If yes, depth of	of water in end of pipe	
am born dib	رم بن الله الله الله الله الله الله الله الل	, but audike flow	in an annual and a second and a second and a	Elvis hare to be considered
No, take photograp	ohs of outfall and record`any	pertinent observations in o	comments. If Yes, continue	omie i jad udrasani - a i
	ging water exhibit any of the Yes Odor Color? Cle	ear Cloudy/Muddy		
. / ~	e ☐ Moving oily sheen ☐			
	Lead grass & w			
art 3. Field Analys		no il segligi cui serie il fic. Il		a kifani ani ila nivenika ka
		HARRING HOUSE	No. 12 St. 1 Piercio	
4. Flow	gal/min OR 🗆 Low	□ Medium □ High	N/A	
5. Previous observa	tions of baseline dry weathe	rflow? 2018 had	Plow	a ' Klasta e esta cama
6. Is an illicit disch	arge suspected at the outfall	? ☑ No ☐ Yes		보다는 그리 전혀 맞았다고 없다는 것이다고 보 보다 하게 되는데 되었습니다. 그는 가리 하는 것
	noted to be about the same of the same			La made divide congress
No, proceed to nex	t outfall. If Yes, continue. De	scripe any additional monit	toring recommendations in	comments.
7. Water Quality A	nalyses Dupl	icate sample collected?	No □Yes NA	(b. 1. Physiolinia), felydd Yni. Gaellai yweniol ar ei arflei ac ar
Parameter	Primary Sample	Duplicate Sample	Equipment Blank	Program Threshold
рН	units	units	units	≤ 4.0 or ≥ 9.0
Total chlorine	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Detergents	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Total copper	mg/L	mg/L	mg/L	≥ 1.0 mg/L
Total phenols	mg/L	mg/L	mg/L	≥ 0.5 mg/L
Turbidity	NTU	NTU	NTU	≥ 250 NTU

Part 4. Comments

to clear weather

2023 MOA DWS Additional Notes

6/15/23

Furrow Creek 34-54 - Could not locate. Seepage found but did not find the end of pipe.

6/16/23

Chester Creek 574-1 - Could not locate. Closest downstream connection is co-routed with stream and was not investigated.

6/19/23

Campbell Creek 74-2 - Could not locate. Seepage found but did not find the end of pipe.

Campbell Creek 285-19 - Could not locate. MOA mapping may be incorrect.

Campbell 1339-38 - Could not access. Private property.

Campbell Creek 1493-1 - Could not locate. End of pipe assumed to be under riprap. Flow seen.

Campbell Creek 1494-1 - Could not locate.

Fish Creek 573-156 - Could not access.

Ship Creek 82-1 - Could not access.

6/26/23

Campbell 548-1 - Could not locate. Did not find the end of pipe for the system. Did not investigate the downstream cross culvert.

Furrow Creek 407-2 - Could not access. Private property.

Appendix D Outfall Sampling Photographs



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Campbell Creek 60-1. June 26, 2023.



Campbell Creek 74-2 (No EOP). June 19, 2023.





Campbell Creek 111-2. June 26, 2023.



Campbell 175-1. June 15, 2023.



Campbell 285-1. June 19, 2023.



Campbell Creek 285-19 (No EOP). June 19, 2023.



Campbell 285-15. June 19, 2023.



Campbell Creek 463-1. June 26, 2023.



Campbell 475-1. June 26, 2023.



Campbell 485-98. June 19, 2023.



Campbell Creek 490-93. June 26, 2023.



Campbell Creek 490-95. June 26, 2023.





Campbell Creek 529-1. June 26, 2023.



Campbell Creek 608-39. June 16, 2023.



Campbell Creek 675-1. June 26, 2023.



Campbell Creek 1001-16. June 19, 2023.



Campbell Creek 1493-1. June 19, 2023.



Campbell Creek 1495-1. June 26, 2023.



Chester Creek 299-22. June 19, 2023.



Chester Creek 484-1. June 19, 2023.



Chester Creek 547-1. June 16, 2023.



Chester Creek 553-1. June 16, 2023.



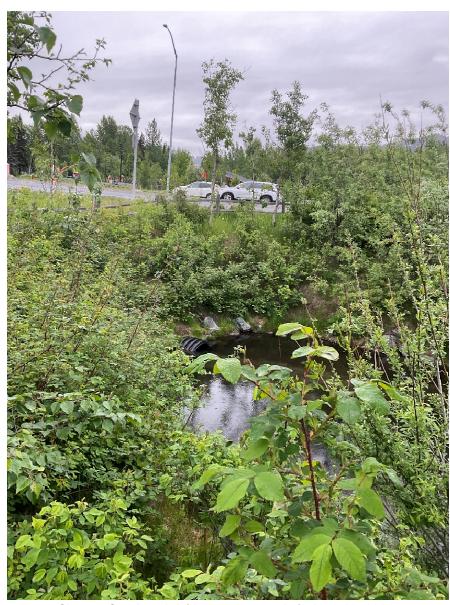
Chester Creek 554-2. June 19, 2023.



Chester Creek 568-1. June 16, 2023.



Resample Chester Creek 568-1. June 19, 2023.



Chester Creek 574-1 (downstream outlet). June 16, 2023.



Fish Creek 388-197. June 19, 2023.



Fish Creek 388-201. June 19, 2023.



Fish Creek 555-1. June 19, 2023.



Furrow Creek 5-1. June 15, 2023.



Furrow Creek 34-26. June 15, 2023.



Furrow Creek 407-2. June 26, 2023.



Hood Creek 609-218. June 19, 2023.



Ship Creek 245-1. June 19, 2023.



Ship Creek 436-1. June 19, 2023.



Ship Creek 571-1. June 19, 2023.

Appendix E Laboratory Analysis Reports



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Laboratory Report of Analysis

To: HDR Alaska, Inc.

2525 C Street #500 Anchorage, AK 99503 (907)644-2017

Report Number: 1232735

Client Project: **Dry Weather Screening**

Dear Cynthia Helmericks,

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 Jeremy 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.

Jeremy Greth, M.S. 2023.06.21

Jeremy Greth **Project Manager** Jeremy.Greth@sgs.com Date

Print Date: 06/20/2023 2:00:37PM Results via Engage



Case Narrative

SGS Client: HDR Alaska, Inc. SGS Project: 1232735 Project Name/Site: Dry Weather Screening



Print Date: 06/20/2023 2:00:39PM

associated field samples.

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



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 (Provisionally Certified as of 6/05/2023 for Fluoride EPA300.0, Alkalinity SM2320B, Orthophosphate SM4500P-E and Beryllium, Copper and Mercury 200.8) & 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, 8270D, 8270D-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

ICVInitial Calibration VerificationJThe quantitation is an estimation.LCS(D)Laboratory Control Spike (Duplicate)LLQC/LLIQCLow Level Quantitation Check

LOD Limit of Detection (i.e., 1/2 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.

Print Date: 06/20/2023 2:00:41PM

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



Sample Summary

<u>Client Sample ID</u> <u>Lab Sample ID</u> <u>Collected</u> <u>Received</u> <u>Matrix</u>

CHS 568-1 1232735001 06/16/2023 06/16/2023 Water (Surface, Eff., Ground)
CHS 568-1 DUP 1232735002 06/16/2023 06/16/2023 Water (Surface, Eff., Ground)

MethodMethod DescriptionSM21 9222DFecal Coliform (MF)

Print Date: 06/20/2023 2:00:42PM



Detectable Results Summary

Client Sample ID: CHS 568-1 Lab Sample ID: 1232735001 Microbiology Laboratory

ParameterResultUnitsFecal ColiformTNTCcol/100mL

Client Sample ID: CHS 568-1 DUP

Lab Sample ID: 1232735002ParameterResultUnitsMicrobiology LaboratoryFecal ColiformTNTCcol/100mL

Print Date: 06/20/2023 2:00:44PM

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



Results of CHS 568-1

Client Sample ID: CHS 568-1

Client Project ID: Dry Weather Screening

Lab Sample ID: 1232735001 Lab Project ID: 1232735 Collection Date: 06/16/23 10:45 Received Date: 06/16/23 12:14 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

<u>Allowable</u>

<u>Parameter</u> Result Qual LOQ/CL <u>DL</u> <u>LOD</u> <u>Units</u> <u>DF</u> <u>Limits</u> Date Analyzed Fecal Coliform TNTC 1.00 1.00 0.500 col/100mL 1 06/16/23 18:25

Batch Information

Analytical Batch: BTF20329 Analytical Method: SM21 9222D

Analyst: M.A

Analytical Date/Time: 06/16/23 18:25 Container ID: 1232735001-A

Print Date: 06/20/2023 2:00:45PM J flagging is activated



Results of CHS 568-1 DUP

Client Sample ID: CHS 568-1 DUP
Client Project ID: Dry Weather Screening

Lab Sample ID: 1232735002 Lab Project ID: 1232735 Collection Date: 06/16/23 10:50 Received Date: 06/16/23 12:14 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

<u>Allowable</u>

<u>Parameter</u> Result Qual LOQ/CL <u>DL</u> <u>LOD</u> <u>Units</u> <u>DF</u> <u>Limits</u> Date Analyzed Fecal Coliform TNTC 1.00 1.00 0.500 col/100mL 1 06/16/23 18:25

Batch Information

Analytical Batch: BTF20329 Analytical Method: SM21 9222D

Analyst: M.A

Analytical Date/Time: 06/16/23 18:25 Container ID: 1232735002-A

Print Date: 06/20/2023 2:00:45PM J flagging is activated



Method Blank

Blank ID: MB for HBN 1857259 [BTF/20329]

Blank Lab ID: 1717788

QC for Samples:

1232735001, 1232735002

Matrix: Water (Surface, Eff., Ground)

Results by SM21 9222D

 Parameter
 Results
 LOQ/CL
 DL
 LOD
 Units

 Fecal Coliform
 1.00U
 1.00
 1.00
 1.00
 col/100mL

Batch Information

Analytical Batch: BTF20329 Analytical Method: SM21 9222D

Instrument: Analyst: M.A

Analytical Date/Time: 6/16/2023 6:25:00PM

Print Date: 06/20/2023 2:00:48PM

SGS North America Inc. CHAIN OF CUSTODY RECORD

200 Wes SGS No **Anchora**(

engage.s

OD Www.us.sgs.com :: <u>=</u>

Profile #: 564713

Omissions may delay the onset of analysis.

Instructions: Sections 1 - 5 must be filled out.

Page 1 of 1.

Preservative Section 3

PHONE #: Project/Permit Number: NPDL Number(DOD):

wy1:7 Comp Grab Type OOZH

E-MAIL: cynthia.helmericks@hdrinc.com MATRIX/ MATRIX CODE

P.O. #: 10371103

odi Lindall jodi.lindall@hdrinc.co QUOTE#:

Cindy Helmericks

REPORTS TO:

INVOICE TO:

Dry Weather Screening

PROJECT NAME:

Section 1

Cindy Helmenides

CONTACT

CLIENT:

J 3

SA:01 6:50 TIME HH:MM

DATE mm/dd/yy 6/10/23 6/11/13

SAMPLE IDENTIFICATION 2 1-895

RESERVED for lab use

1-895 547

CHS

Section 2

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9

×

×

REMARKS/LOC ID

received, or for documentation of non compliant coolers, use form FS-0029.

F083-Blank_COC_20181228

Intials://

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.

June 1

4110/23/12/14

Laboratory Use Only

If more than three coolers are

ABSEAN

BROKEN

INTACT

COC Seal Location(s):

ŝ

Yes

Did each cooler have a corresponding COC?

Therm. ID

Temperature (°C)

Cooler ID

RECEIVED BY:

ΗMΕ

DATE:

Requested Rush Report Date:

a

Chain of Custody Seal Condition

Commercial

Client

Delivery Method:

Turnaround Time Requested

Standard

Rush

EQUIS Other:

ERPIMS

RELINQUISHED BY:

Section 5

Data Deliverables Requested

9

YES

DOD Project?

Comments

DataView Level 4

Section 4

SGS Sample Receipt (Lab Use Only)

PFAS

compound list: BTEX, Metals,

specific method and/or

The following analyses require

NOTE:





SAMPLE RECEIPT FORM

F	Project I	Manage	er Com	pletion
Was all necessary information recorded on the	Yes	No	N/A	
COC upon receipt? (temperature, COC seals,				
etc.?)				
Was temperature between 0-6° C?	Yes	No	N/A	If "No", are the samples either exempt* or sampled <8
was temperature between 0-0 O:	103	140	14//	hours prior to receipt?
				riours prior to receipt:
N/ana all analyses as actual within helding three *?	Yes	No	N/A	
Were all analyses received within holding time*?	165	NO	111/74	
NATION OF THE PROPERTY OF THE	\\\	NIa	N/A	
Was a method specified for each analysis,	Yes	No	IN/A	
where applicable? If no, please note correct				
methods.	+,, -			
Are compound lists specified, where applicable?	Yes	No	N/A	
For project specific or special compound lists				
please note correct analysis code.				
If rush was requested by the client, was the	Yes	No	N/A	If "NO", what is the approved TAT?
requested TAT approved?				
If SEDD Deliverables are required, were	Yes	No	N/A	If "NO", contact client for information.
Location ID's and an NPDL Number provided?				
	Sample	e Logir	Comp	<u> </u>
Do ID's on sample containers match COC? (Yes	No	N/A	
,	\ <u>_</u> <			
If provided on containers, do dates/times	(Yes)	No	N/A	Note: If times differ <1 hr., record details below and
collected match COC?			` `	login per COC.
Were all sample containers received in good	Yes	No	N/A	
condition?		''	1 1	
Were proper containers	Yes	No	N/A	Note: If 200.8/6020 Total Metals are received unpreserved,
(type/mass/volume/preservative) received for all		110		preserve and note HNO3 lot here:
samples?				If 200.8/6020 Dissolved Metals are received unpreserved, log
*See form F-083 "Sample Guide"				in for LABFILTER and do not preserve.
See form r-003 Sample Guide				For all non-metals methods, inform Project Manager.
T. D. I. (100 ODO I. I. III	 			
Were Trip Blanks (VOC, GRO, Low-Level Hg,	Yes	No	(N/A)	
etc.) received with samples, where applicable*?	 _	L		
Were all VOA vials free of headspace >6mm?	Yes	No ([NYA]	
Were all soil VOA samples received field	Yes	No	M/A)	
extracted with Methanol?				
Did all soil VOA samples have an	Yes	No	N/A)	
accompanying unpreserved container for %				
solids?			10	
If special handling is required, were containers	Yes	No	(N/A)	
labelled appropriately? e.g. MI/ISM, foreign	'			
soils, lab filter, Ref Lab, limited volume				
For Rush/Short Holding time, was the lab	Yes	No	(N/A)	
notified?	1 . 69	110		
For any question answered "NO", was the	Yes	No	NA	PM Initials:
Project Manager notified?	res	140		FIVEHILIAIS.
	103		N1/2	D. J.
Was Peer Review of sample	(Yes	No	N/A	Reviewer Initials:
numbering/labelling completed?			L	MA
Additional Notes/Clarification where Applicable, inc	luding r	esolutio	on of "N	o" answers when a change order is not attached:
·				
				•



Sample Containers and Preservatives

Container Id	<u>Preservative</u>	<u>Container</u>	Container Id	<u>Preservative</u>	<u>Container</u>
		<u>Condition</u>			<u>Condition</u>
1232735001-A	No Preservative Required	ОК			
1232735002-A	No Preservative Required	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.

Page 11 of 11



Laboratory Report of Analysis

To: HDR Alaska, Inc.

2525 C Street #500 Anchorage, AK 99503 (907)644-2017

Report Number: 1232769

Client Project: Dry Weather Screening

Dear Cynthia Helmericks,

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 Jeremy 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.

Jeremy Greth,

M.S.

2023.06.22

11:49:53 -08'00'

Jeremy Greth Project Manager Jeremy.Greth@sgs.com Date

Print Date: 06/22/2023 9:34:46AM Results via Engage

SGS North America Inc.



Case Narrative

SGS Client: HDR Alaska, Inc. SGS Project: 1232769

Project Name/Site: **Dry Weather Screening**Project Contact: **Cynthia Helmericks**

Refer to sample receipt form for information on sample condition.

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

Print Date: 06/22/2023 9:34:47AM



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 (Provisionally Certified as of 6/05/2023 for Fluoride EPA300.0, Alkalinity SM2320B, Orthophosphate SM4500P-E and Beryllium, Copper and Mercury 200.8) & 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, 8270D, 8270D-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 Instrument Blank

ICVInitial Calibration VerificationJThe quantitation is an estimation.LCS(D)Laboratory Control Spike (Duplicate)LLQC/LLIQCLow Level Quantitation Check

LOD Limit of Detection (i.e., 1/2 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.

Print Date: 06/22/2023 9:34:50AM

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



Sam	ple	Summary	,
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	Client Sample ID	Lab Sample ID	<u>Collected</u>	Received	<u>Matrix</u>
	CHS 554-2	1232769001	06/19/2023	06/19/2023	Water (Surface, Eff., Ground)
	CHS 554-2 DUP	1232769002	06/19/2023	06/19/2023	Water (Surface, Eff., Ground)
	CHS 568-1 Resample	1232769003	06/19/2023	06/19/2023	Water (Surface, Eff., Ground)
	CHS 299-22	1232769004	06/19/2023	06/19/2023	Water (Surface, Eff., Ground)
FH	<mark>IS</mark> 388-201	1232769005	06/19/2023	06/19/2023	Water (Surface, Eff., Ground)

MethodMethod DescriptionSM21 9222DFecal Coliform (MF)

Print Date: 06/22/2023 9:34:51AM



Detectable Results Summary

Client Sample ID: CHS 568-1 Resample

Lab Sample ID: 1232769003 **Microbiology Laboratory**

<u>Parameter</u> Fecal Coliform Result 58300

<u>Units</u> col/100mL

Print Date: 06/22/2023 9:34:52AM

SGS North America Inc.



Results of CHS 554-2

Client Sample ID: CHS 554-2

Client Project ID: Dry Weather Screening

Lab Sample ID: 1232769001 Lab Project ID: 1232769 Collection Date: 06/19/23 10:05 Received Date: 06/19/23 15:55 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

<u>Allowable</u>

<u>Parameter</u> Result Qual LOQ/CL <u>DL</u> <u>LOD</u> <u>Units</u> <u>DF</u> <u>Limits</u> Date Analyzed Fecal Coliform 6.02 U 6.02 6.02 3.01 col/100mL 1 06/19/23 16:45

Batch Information

Analytical Batch: BTF20334 Analytical Method: SM21 9222D

Analyst: PHK

Analytical Date/Time: 06/19/23 16:45 Container ID: 1232769001-A



Results of CHS 554-2 DUP

Client Sample ID: CHS 554-2 DUP
Client Project ID: Dry Weather Screening

Lab Sample ID: 1232769002 Lab Project ID: 1232769 Collection Date: 06/19/23 10:05 Received Date: 06/19/23 15:55 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

Allowable Programme Allowable

<u>Parameter</u> Result Qual LOQ/CL <u>DL</u> <u>LOD</u> <u>Units</u> <u>DF</u> <u>Limits</u> Date Analyzed Fecal Coliform 6.02 U 6.02 6.02 3.01 col/100mL 1 06/19/23 16:45

Batch Information

Analytical Batch: BTF20334 Analytical Method: SM21 9222D

Analyst: PHK

Analytical Date/Time: 06/19/23 16:45 Container ID: 1232769002-A



Results of CHS 568-1 Resample

Client Sample ID: CHS 568-1 Resample
Client Project ID: Dry Weather Screening

Lab Sample ID: 1232769003 Lab Project ID: 1232769 Collection Date: 06/19/23 10:35 Received Date: 06/19/23 15:55 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

<u>Allowable</u>

<u>Parameter</u> Result Qual LOQ/CL <u>DL</u> <u>Units</u> <u>DF</u> <u>Limits</u> <u>LOD</u> Date Analyzed Fecal Coliform 58300 167 167 83.5 col/100mL 1 06/19/23 17:25

Batch Information

Analytical Batch: BTF20334 Analytical Method: SM21 9222D

Analyst: PHK

Analytical Date/Time: 06/19/23 17:25 Container ID: 1232769003-A



Results of CHS 299-22

Client Sample ID: CHS 299-22

Client Project ID: Dry Weather Screening

Lab Sample ID: 1232769004 Lab Project ID: 1232769 Collection Date: 06/19/23 11:00 Received Date: 06/19/23 15:55 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

Allowable
Personator

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LOC/CL

DI

LOD

Lights

DE

Lights

<u>Parameter</u> Result Qual LOQ/CL <u>DL</u> <u>LOD</u> <u>Units</u> <u>DF</u> <u>Limits</u> Date Analyzed Fecal Coliform 6.02 U 6.02 6.02 3.01 col/100mL 1 06/19/23 17:25

Batch Information

Analytical Batch: BTF20334 Analytical Method: SM21 9222D

Analyst: PHK

Analytical Date/Time: 06/19/23 17:25 Container ID: 1232769004-A



Results of 388-201

Client Sample ID: 388-201

Client Project ID: Dry Weather Screening

Lab Sample ID: 1232769005 Lab Project ID: 1232769 Collection Date: 06/19/23 13:12 Received Date: 06/19/23 15:55 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

<u>Allowable</u>

<u>Parameter</u> Result Qual LOQ/CL <u>DL</u> <u>LOD</u> <u>Units</u> <u>DF</u> <u>Limits</u> Date Analyzed Fecal Coliform 6.02 U 6.02 6.02 3.01 col/100mL 1 06/19/23 18:00

Batch Information

Analytical Batch: BTF20334 Analytical Method: SM21 9222D

Analyst: PHK

Analytical Date/Time: 06/19/23 18:00 Container ID: 1232769005-A



Method Blank

Blank ID: MB for HBN 1857397 [BTF/20334]

Blank Lab ID: 1718082

QC for Samples:

1232769001, 1232769002

Matrix: Water (Surface, Eff., Ground)

Results by SM21 9222D

 Parameter
 Results
 LOQ/CL
 DL
 LOD
 Units

 Fecal Coliform
 1.00U
 1.00
 1.00
 1.00
 col/100mL

Batch Information

Analytical Batch: BTF20334 Analytical Method: SM21 9222D

Instrument: Analyst: PHK

Analytical Date/Time: 6/19/2023 4:45:00PM

Print Date: 06/22/2023 9:34:56AM



Method Blank

Blank ID: MB for HBN 1857397 [BTF/20334]

Blank Lab ID: 1718476

QC for Samples:

1232769001, 1232769002, 1232769003

Matrix: Water (Surface, Eff., Ground)

Results by SM21 9222D

 Parameter
 Results
 LOQ/CL
 DL
 LOD
 Units

 Fecal Coliform
 1.00U
 1.00
 1.00
 1.00
 col/100mL

Batch Information

Analytical Batch: BTF20334 Analytical Method: SM21 9222D

Instrument: Analyst: PHK

Analytical Date/Time: 6/19/2023 5:25:00PM

Print Date: 06/22/2023 9:34:56AM



Method Blank

Blank ID: MB for HBN 1857397 [BTF/20334]

Blank Lab ID: 1718477

QC for Samples:

 $1232769003,\,1232769004,\,1232769005$

Matrix: Water (Surface, Eff., Ground)

Results by SM21 9222D

 Parameter
 Results
 LOQ/CL
 DL
 LOD
 Units

 Fecal Coliform
 1.00U
 1.00
 1.00
 1.00
 col/100mL

Batch Information

Analytical Batch: BTF20334 Analytical Method: SM21 9222D

Instrument: Analyst: PHK

Analytical Date/Time: 6/19/2023 6:00:00PM

Print Date: 06/22/2023 9:34:56AM

1232769

SGS North America Inc. CHAIN OF CUSTODY RECORD

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If more than three coolers are received, or for documentation of non-compliant coolers, use form FS-0029. The following analyses require compound list: BTEX, Metals, ABSENT REMARKS/LOC ID Page L of specific method and/or Chain of Custody Seal Condition: BROKEN Intials:_ COC Seal Location(s):_ NOTE: PFAS SGS Sample Receipt (Lab Use Only) 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. Therm. ID マグク ĕ le Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis. Temperature (°C) ŝ Int : 26 Yes Preservative Did each cooler have a corresponding COC? Profile #384773 Client Cooler iD Delivery Method: tecal Coliferm Sample Comp Hay wast Type Grab Section 3 Turnaround Time Requested J RECEIVED BY: Requested Rush Report Date:_ ∢ OOZH ΖШС E-MAIL: cynthia.helmericks@hdrinc.com MATRIX/ MATRIX CODE ≥ 907-231-9305 Standard 300 Rush TIME HH:MM 50:01 62/61/90 5.8 13:12 10:32 12:58 TIME: 15:51 Project/Permit Number NPDL Number(DOD): mm/dd/yy P.O. #: 10371103 6/19/23 6A4/23 DATE: odi Lindall jodi.lindall@hdrinc.co QUOTE #: PHONE #: Resemple HDR EQUIS Other: SAMPLE IDENTIFICATION Dry Weather Screening Data Deliverables Requested 22-662 388-201 Cindy Helmericks 2-496 1-895 9 ERPIMS Cindy Helmenicks RELINQUISHED BY: Dailer CHS CHY に死 FHS YES PROJECT NAME: RESERVED for lab use William REPORTS TO: DataView DOD Project? INVOICE TO: Level 4 (<u>a</u>) (3) \$ (5) (5) CONTACT CLIENT: Comments: Section 1 Section 2 Section 4 Section 5

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SAMPLE RECEIPT FORM

Prøject Manager Completion							
Was all necessary information recorded on the	Yes	No	N/A				
COC upon receipt? (temperature, COC seals,				·			
etc.?)				,			
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				
The contract of the contract o							
Was a method specified for each analysis,	Yes	No	N/A				
where applicable? If no, please note correct							
methods.				_			
Are compound lists specified, where applicable?	Yes	No (N/A				
For project specific or special compound lists	'						
please note correct analysis code.							
If rush was requested by the client, was the	Yes	No	(N/A	If "NO", what is the approved TAT?			
requested TAT approved?				h ito , macio allo appiotos inti			
If SEDD Deliverables are required, were	Yes	No	N/A	If "NO", contact client for information.			
Location ID's and an NPDL Number provided?	100			n 100 ; comact chart co, mornaliem			
Eccation 15 3 and all 14 DE 14dinber provided:	Sample	l ogir	Comr	Netion			
Do ID's on sample containers match COC?	(Yes	No.	N/A	nedoli			
		140	IVA				
If provided on containers, do dates/times	(Yes	No	N/A	Note: If times differ <1 hr., record details below and			
collected match COC?		NO	IN/A	login per COC.			
Were all sample containers received in good	Yes	No	NI/A	login per COC.			
	res	No	N/A				
condition?	/ /	NI-	NI/A	Note: If 200 8/6020 Total Motels are received uppressed and			
Were proper containers	Yes	No	N/A	Note: If 200.8/6020 Total Metals are received unpreserved, preserve and note HNO3 lot here:			
(type/mass/volume/preservative) received for all				If 200.8/6020 Dissolved Metals are received unpreserved, log			
samples?			1	in for LABFILTER and do not preserve.			
*See form F-083 "Sample Guide"				For all non-metals methods, inform Project Manager.			
·			Į				
Were Trip Blanks (VOC, GRO, Low-Level Hg,	Yes	No	(N/A				
etc.) received with samples, where applicable*?							
Were all VOA vials free of headspace >6mm?	Yes	No	WA				
Were all soil VOA samples received field	Yes	No	(N/A				
extracted with Methanol?			<u> </u>				
Did all soil VOA samples have an	Yes	No	(N/A	*			
accompanying unpreserved container for %							
solids?							
If special handling is required, were containers	Yes	No	W/A				
labelled appropriately? e.g. MI/ISM, foreign		,					
soils, lab filter, Ref Lab, limited volume		1 2	1				
For Rush/Short Holding time, was the lab	(Yes	No	N/A				
notified?							
For any question answered "NO", was the	Yes	No	(N/A	PM Initials:			
Project Manager notified?		İ					
Was Peer Review of sample	Yes	No	(N/A	Reviewer Initials:			
numbering/labelling completed?	1						
Additional Notes/Clarification where Applicable, inc	luding r	esoluti	on of "N	lo" answers when a change order is not attached:			



Sample Containers and Preservatives

Container Id	<u>Preservative</u>	<u>Container</u> <u>Condition</u>	Container Id	<u>Preservative</u>	<u>Container</u> <u>Condition</u>
1232769001-A 1232769002-A 1232769003-A 1232769004-A 1232769005-A	Na2S2O3 for Chlorine Redu Na2S2O3 for Chlorine Redu Na2S2O3 for Chlorine Redu Na2S2O3 for Chlorine Redu Na2S2O3 for Chlorine Redu	ок ок ок ок ок			

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.



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