



September 29, 2021 1114-01

MV Investments, LLC 981 Van Horn Road Fairbanks, Alaska 99701-7547

Attention: Bill Vivlamore

Owner

Re: Annual Groundwater Sampling, ADEC File No. 102.26.007

Cornerstone Mall

Dear Mr. Vivlamore:

Travis/Peterson Environmental Consulting (TPEC) is pleased to present our letter summarizing the data obtained from the groundwater sampling event conducted on September 1, 2021 at the Cornerstone Mall (Figure 1). The purpose for sampling is to monitor contaminants on site annually as is stipulated in the June 19, 2007 Conditional Closure letter from the Alaska Department of Environmental Conservation (ADEC).

Groundwater Sampling

On September 1, 2021, TPEC personnel gauged the depth to groundwater and total well depth to determine the volume of water present in MW-1. A minimum of three well volumes of groundwater was purged prior to sample collection. TPEC personnel used a peristaltic pump to purge and retrieve samples from MW-1. The groundwater sample was analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) by EPA 8260D.

For the detailed analytical results refer to the attached SGS North America Inc. report. The ADEC Laboratory Data Review Checklist was completed and is attached to this report, in addition to the field notes and historical data. Since only one well was sampled, no decontamination of equipment was required between samples.

Discussion

Results from the September 1, 2021 sampling event showed a slight increase in the concentrations of the detected analyte (benzene). Benzene was not detected at 0.450 in the parent sample, and 0.500 in the duplicate, both well below the applicable cleanup level. Ethylbenzene, xylenes, and toluene were not detected in the parent sample or duplicate. The trip blank results were all non-detect for BTEX constituents. Sampling results from 2008 through 2021 are presented in the following table:

GROUNDWATER ANALYTICAL RESULTS

Monitoring Well ID	Sample Date	DTW (Feet)	DRO	GRO	Benzene	Toluene	Ethylbe nzene	Total Xylene	Trichloro fluoromet hane
		MCL	1.5 mg/L	2.2 mg/L	0.0046 mg/L	1.1 mg/L	0.7 mg/L	0.190 mg/L	5.2 mg/L
MW-1	11/19/08	14.94	0.906	0.981	0.153	0.00312	0.0125	0.03077	NA
MW-1	09/29/09	14.94	0.63	1.39	0.154	ND	0.0061	0.0139	NA
MW-1	10/05/10	15.60	0.139	1.48	0.278	ND	0.00742	0.0162	NA
MW-1	09/01/11	13.90	0.129	0.556	0.177	ND	0.00632	0.0161	NA
MW-1	08/09/12	14.90	0.168	0.480	0.0532	ND	0.004J	0.0077	NA
MW-2*	08/09/12	14.90	0.160	0.479	0.0558	ND	0.0039J	ND	NA
MW-1	08/05/13	15.40	0.127J	0.417	0.0567	0.00077J	0.00167J	0.00478J	NA
MW-2*	08/05/13	15.40	0.124J	0.412	0.0584	0.00074J	0.00173J	0.0048J	NA
MW-1	08/26/14	12.53	0.0609J	0.399	0.0411	ND	0.00156J	0.00538	NA
MW-2*	08/26/14	12.53	0.0641J	0.291	0.0412	ND	0.00159J	0.00542	NA
MW-1	08/28/15	14.05	N/A	N/A	0.0126	ND	ND	0.00145J	NA
MW-2*	08/28/15	14.05	N/A	N/A	0.0132	ND	ND	0.00151J	NA
MW-1	08/16/16	11.31	N/A	N/A	0.00268	0.00036J	ND	0.00107J	NA
MW-2*	08/16/16	11.31	N/A	N/A	0.00281	0.0004J	ND	0.00109J	NA
MW-1	08/22/17	14.28	N/A	N/A	0.002	0.00035J	ND	0.000810J	NA
MW-10*	08/22/17	14.28	N/A	N/A	0.00201	0.000450 J	ND	0.000740J	NA
MW-1	07/20/18	13.59	N/A	N/A	0.00489	ND	ND	0.00166J	NA
MW-10*	07/20/18	13.59	N/A	N/A	0.00472	ND	ND	0.00121J	NA
MW-1	08/28/19	12.44	N/A	N/A	0.00124	ND	ND	ND	NA
MW-10*	08/28/19	12.44	N/A	N/A	0.00126	ND	ND	ND	NA
MW-1	09/01/20	18.10	N/A	N/A	ND	ND	ND	ND	0.0147
MW-10*	09/01/20	18.10	N/A	N/A	0.000129J	ND	ND	ND	0.0137
MW-1	09/01/21	13.16	N/A	N/A	0.000450	ND	ND	ND	NA
MW-1b*	09/01/21	13.16	N/A	N/A	0.000500	ND	ND	ND	NA

Notes:

*denotes sample is a duplicate

MW-1 is a flush mount well

Bold indicates the analyte was above the ADEC groundwater cleanup level.

DTW – depth to water.

ND indicates the analyte was not detected.

NA indicates the analyte was not analyzed for.

J – Concentrations reported with a J flag are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered estimated.

Conclusions and Recommendations

The extent of the contaminant plume is known. Existing institutional controls (asphalt encapsulation) appear to be working. In 2018 benzene was detected above the applicable DEC cleanup levels. Since then, no analytes including testing from this sampling event have been above applicable cleanup levels.

MW-1 will be sampled again in 2022, although three consecutive years of monitoring below applicable DEC cleanup levels has occurred it is the owner's preference to continue sampling at the Cornerstone Mall MW-1 location.

Please contact me at 907-455-7225 if there are any questions or concerns in regard to this monitoring report.

Sincerely,

Michaela L. McGee Michaela McGee

Michaela McGee Staff Scientist

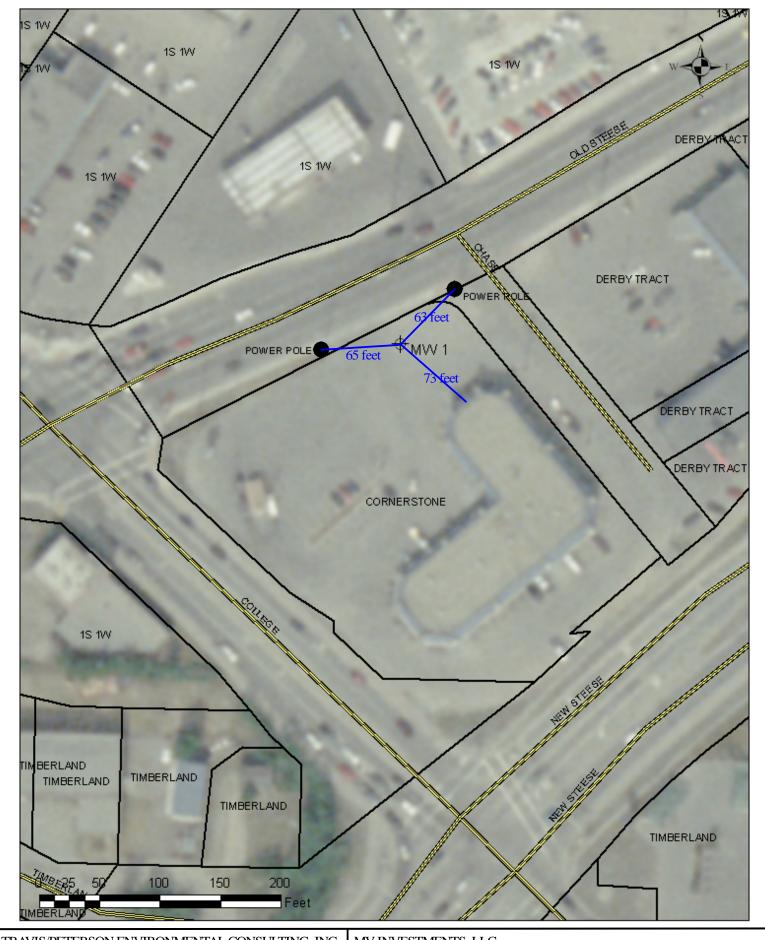
cc: Evonne Reese, DEC Institutional Controls Unit

Attachments: Figure 1

SGS North America Inc.

DEC Laboratory Data Review Checklist Historical Groundwater Data Table

Field Notes



TRAVIS/PETERSON ENVIRONMENTAL CONSULTING, INC. 329 SECOND STREET FAIRBANKS, ALASKA 99701

MV INVESTMENTS, LLC

FIGURE 1 LOCATION & VICINITY

PROJECT NO: 1114-01

FILE: S/PROJECTS/1114/01/FIGURES/SITE PLAN FIGURE.SKF

DATE: 9/01/2021

SCALE: AS SHOWN



Laboratory Report of Analysis

To: Travis/Peterson (TPECI)

329 2nd Street Fairbanks, AK 99701 (907)455-7225

Report Number: 1215743

Client Project: MVI Cornerstone

Dear Eddie Packee,

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 Jennifer 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.

Jennifer Dawkins
Project Manager
Jennifer.Dawkins@sgs.com

Date

Print Date: 09/15/2021 12:29:20PM Results via Engage



Case Narrative

SGS Client: Travis/Peterson (TPECI) SGS Project: 1215743 Project Name/Site: MVI Cornerstone Project Contact: Eddie Packee

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: 09/15/2021 12:29:22PM



Laboratory Qualifiers

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

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

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 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

ICV Initial Calibration Verification
J The quantitation is an estimation.
LCS(D) Laboratory Control Spike (Duplicate)
LLQC/LLIQC Low Level Quantitation Check
LOD Limit of Detection (i.e., 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: 09/15/2021 12:29:24PM

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>

MW-1 1215743001 09/01/2021 09/03/2021 Water (Surface, Eff., Ground)
MW-1b 1215743002 09/01/2021 09/03/2021 Water (Surface, Eff., Ground)

Method Description

SW8260D Volatile Organic Compounds (W)

Print Date: 09/15/2021 12:29:25PM



Detectable Results Summary

Client Sample ID: MW-1 Lab Sample ID: 1215743001 <u>Units</u> <u>Parameter</u> Result Volatile GC/MS Benzene 0.450 ug/L Client Sample ID: MW-1b Lab Sample ID: 1215743002 <u>Parameter</u> Result <u>Units</u> **Volatile GC/MS** Benzene 0.500 ug/L

Print Date: 09/15/2021 12:29:27PM

200 West Potter Drive, Anchorage, AK 99518 SGS North America Inc.



Results of MW-1

Client Sample ID: MW-1

Client Project ID: **MVI Cornerstone** Lab Sample ID: 1215743001 Lab Project ID: 1215743 Collection Date: 09/01/21 11:10 Received Date: 09/03/21 09:38 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Volatile GC/MS

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Benzene	0.450	0.400	0.120	ug/L	1		09/13/21 18:50
Ethylbenzene	0.500 U	1.00	0.310	ug/L	1		09/13/21 18:50
o-Xylene	0.500 U	1.00	0.310	ug/L	1		09/13/21 18:50
P & M -Xylene	1.00 U	2.00	0.620	ug/L	1		09/13/21 18:50
Toluene	0.500 U	1.00	0.310	ug/L	1		09/13/21 18:50
Xylenes (total)	1.50 U	3.00	1.00	ug/L	1		09/13/21 18:50
Surrogates							
1,2-Dichloroethane-D4 (surr)	99.2	81-118		%	1		09/13/21 18:50
4-Bromofluorobenzene (surr)	101	85-114		%	1		09/13/21 18:50
Toluene-d8 (surr)	103	89-112		%	1		09/13/21 18:50

Batch Information

Analytical Batch: VMS21173 Analytical Method: SW8260D

Analyst: NRB

Analytical Date/Time: 09/13/21 18:50 Container ID: 1215743001-A Prep Batch: VXX37835
Prep Method: SW5030B
Prep Date/Time: 09/13/21 11:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 09/15/2021 12:29:28PM

J flagging is activated



Results of MW-1b

Client Sample ID: MW-1b

Client Project ID: **MVI Cornerstone** Lab Sample ID: 1215743002 Lab Project ID: 1215743 Collection Date: 09/01/21 11:15 Received Date: 09/03/21 09:38 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Volatile GC/MS

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Benzene	0.500	0.400	0.120	ug/L	1		09/13/21 19:04
Ethylbenzene	0.500 U	1.00	0.310	ug/L	1		09/13/21 19:04
o-Xylene	0.500 U	1.00	0.310	ug/L	1		09/13/21 19:04
P & M -Xylene	1.00 U	2.00	0.620	ug/L	1		09/13/21 19:04
Toluene	0.500 U	1.00	0.310	ug/L	1		09/13/21 19:04
Xylenes (total)	1.50 U	3.00	1.00	ug/L	1		09/13/21 19:04
Surrogates							
1,2-Dichloroethane-D4 (surr)	99.6	81-118		%	1		09/13/21 19:04
4-Bromofluorobenzene (surr)	103	85-114		%	1		09/13/21 19:04
Toluene-d8 (surr)	104	89-112		%	1		09/13/21 19:04

Batch Information

Analytical Batch: VMS21173 Analytical Method: SW8260D

Analyst: NRB

Analytical Date/Time: 09/13/21 19:04 Container ID: 1215743002-A Prep Batch: VXX37835
Prep Method: SW5030B
Prep Date/Time: 09/13/21 11:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 09/15/2021 12:29:28PM

J flagging is activated



Method Blank

Blank ID: MB for HBN 1825511 [VXX/37835]

Blank Lab ID: 1636286

QC for Samples:

1215743001, 1215743002

Matrix: Water (Surface, Eff., Ground)

Results by SW8260D

<u>Parameter</u>	Results	LOQ/CL	<u>DL</u>	<u>Units</u>
Benzene	0.200U	0.400	0.120	ug/L
Ethylbenzene	0.500U	1.00	0.310	ug/L
o-Xylene	0.500U	1.00	0.310	ug/L
P & M -Xylene	1.00U	2.00	0.620	ug/L
Toluene	0.500U	1.00	0.310	ug/L
Xylenes (total)	1.50U	3.00	1.00	ug/L
Surrogates				
1,2-Dichloroethane-D4 (surr)	105	81-118		%
4-Bromofluorobenzene (surr)	102	85-114		%
Toluene-d8 (surr)	103	89-112		%

Batch Information

Analytical Batch: VMS21173 Analytical Method: SW8260D

Instrument: VPA 780/5975 GC/MS

Analyst: NRB

Analytical Date/Time: 9/13/2021 11:26:00AM

Prep Batch: VXX37835 Prep Method: SW5030B

Prep Date/Time: 9/13/2021 11:00:00AM

Prep Initial Wt./Vol.: 5 mL Prep Extract Vol: 5 mL

Print Date: 09/15/2021 12:29:30PM



Anti-Foam Blank

Blank ID: AFB for HBN 1825511 [VXX/37835

Blank Lab ID: 1636289

QC for Samples:

1215743001, 1215743002

Matrix: Water (Surface, Eff., Ground)

Results by SW8260D

<u>Parameter</u>	<u>Results</u>	LOQ/CL	<u>DL</u>	<u>Units</u>
Benzene	0.200U	0.400	0.120	ug/L
Ethylbenzene	0.500U	1.00	0.310	ug/L
o-Xylene	0.500U	1.00	0.310	ug/L
P & M -Xylene	1.00U	2.00	0.620	ug/L
Toluene	0.500U	1.00	0.310	ug/L
Xylenes (total)	1.50U	3.00	1.00	ug/L

Batch Information

Analytical Batch: VMS21173 Analytical Method: SW8260D

Instrument: VPA 780/5975 GC/MS

Analyst: NRB

Analytical Date/Time: 9/13/2021 7:34:00PM

Prep Batch: VXX37835 Prep Method: SW5030B

Prep Date/Time: 9/13/2021 11:00:00AM

Prep Initial Wt./Vol.: 5 mL Prep Extract Vol: 5 mL

Print Date: 09/15/2021 12:29:30PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1215743 [VXX37835]

Blank Spike Lab ID: 1636287 Date Analyzed: 09/13/2021 11:40

QC for Samples: 1215743001, 1215743002

Spike Duplicate ID: LCSD for HBN 1215743

[VXX37835]

Spike Duplicate Lab ID: 1636288 Matrix: Water (Surface, Eff., Ground)

Results by SW8260D

		Blank Spike	e (ug/L)	:	Spike Dupli	cate (ug/L)			
<u>Parameter</u>	<u>Spike</u>	Result	Rec (%)	<u>Spike</u>	Result	Rec (%)	CL	RPD (%)	RPD CL
Benzene	30	30.7	102	30	30.5	102	(79-120)	0.83	(< 20)
Ethylbenzene	30	31.9	106	30	31.9	106	(79-121)	0.17	(< 20)
o-Xylene	30	31.8	106	30	31.5	105	(78-122)	0.93	(< 20)
P & M -Xylene	60	64.0	107	60	63.2	105	(80-121)	1.20	(< 20)
Toluene	30	30.8	103	30	30.7	102	(80-121)	0.14	(< 20)
Xylenes (total)	90	95.8	106	90	94.7	105	(79-121)	1.10	(< 20)
Surrogates									
1,2-Dichloroethane-D4 (surr)	30		99	30		96	(81-118)	3.40	
4-Bromofluorobenzene (surr)	30		99	30		101	(85-114)	1.70	
Toluene-d8 (surr)	30		103	30		104	(89-112)	0.33	

Batch Information

Analytical Batch: VMS21173 Analytical Method: SW8260D Instrument: VPA 780/5975 GC/MS

Analyst: NRB

Prep Batch: VXX37835
Prep Method: SW5030B

Prep Date/Time: 09/13/2021 11:00

Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

Print Date: 09/15/2021 12:29:32PM



SGS North America Inc. CHAIN OF CUSTODY RECORD





; com

*The following analyses require specific method and/or compound list: REMARKS/LOC ID BTEX, Metals, PFAS Data Deliverable Requirements: Chain of Custody Seal, (Circle)

MC: IF, IS

WTACT BROKEN (ABSENT Page ____of___ Delivery Method: Hand Delivery[] Commerical Delivery NOTE Requested Turnaround Time and/or Special Instructions: Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis. DOD Project? Yes 🚳 Standard Preservative ANC: 5:3 Deo Z. U or Ambient [] Analysis* Section 4 Cooler ID: 3, 孝 TS XZL8 Received For Laboratory By: Comp Grab (Multi-incre-mental) Ξ Section 3 S S Received By: Received By: Served By: water MATRIX E-MAIL: MMcgec@+feci.com MAIRIX Satz CODE 10:30 am 28 4 Or (4 11:10 um 11:15 Am TIME HH:MM 907 - 455 - 7225 0438 Time Time P.O. #: 1114-01 01 | 01 | 23 mm/dd/yy 9/2/21 913/21 Trans/Petuson Environmented contact: DATE QUOTE #: Date Date Profile #: PROJECT/ PWSID/ PERMIT#: SAMPLE IDENTIFICATION some Mother PROJECT PROJECT Second MVI Contribut Tripblank Michaua Mcoce 41-MH MW-Relinquished By: (1) Reingdished By: (3) Relinquished By: (2) Relinquished By: (4) REPORTS TO: INVOICE TO: RESERVED for lab use CLIENT: Section 2

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



e-Sample Receipt Form FBK

SGS Workorder #:

Travis Peterson



1215743

Review Criteria Condition (Yes, No, N/A **Exceptions Noted below Chain of Custody / Temperature Requirements** Yes Exemption permitted if sampler hand carries/delivers. Were Custody Seals intact? Note # & location N/A COC accompanied samples? Yes DOD: Were samples received in COC corresponding coolers? N/A **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required 2.4 °C Therm. ID: D62 Temperature blank compliant* (i.e., 0-6 °C after CF)? Yes Cooler ID: Cooler ID: @ dTherm. ID: If samples received without a temperature blank, the "cooler temperature" will be @ Cooler ID: Therm. ID: documented instead & "COOLER TEMP" will be noted to the right. "ambient" or "chilled" will Cooler ID: @ Therm. ID: be noted if neither is available. *If >6°C, were samples collected <8 hours ago? If <0°C, were sample containers ice free? Note: Identify containers received at non-compliant temperature. Use form FS-0029 if more space is needed. Holding Time / Documentation / Sample Condition Requirements Note: Refer to form F-083 "Sample Guide" for specific holding times. Do samples match COC** (i.e.,sample IDs,dates/times collected)? N/C **Note: If times differ <1hr, record details & login per COC. *Note: If sample information on containers differs from COC, SGS will default to COC information Were samples in good condition (no leaks/cracks/breakage)? Yes Were analytical requests clear? (i.e., method is specified for analyses with multiple option for analysis (Ex: BTEX, Metals) Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples? Shared TB for 4 WOs. See COC notes. Yes Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)? N/C Were all soil VOAs field extracted with MeOH+BFB? N/A For Rush/Short Hold Time, was RUSH/Short HT email sent? Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality. Additional notes (if applicable): SGS Profile # 336472 336472



e-Sample Receipt Form

SGS Workorder #:

1215743



Review Criteria	Review Criteria Condition (Yes,					s, No, N/A Exceptions Noted below				
Chain of Custody / Temperature Requi			N/A	Exemption permitted in	f sampler hai	nd carries/deliv	ers.			
Were Custody Seals intact? Note # &	location	1F,1B								
COC accompanied s	amples? Yes									
DOD: Were samples received in COC corresponding										
N/A **Exemption permitted if	f chilled & colle	ected <8	hours							
Temperature blank compliant* (i.e., 0-6 °C after	er CF)? Yes	Coole	ID:	1 @	5.3	°C Therm. ID:	D60			
		Coole		@		°C Therm. ID:				
If samples received without a temperature blank, the "cooler temperature" widocumented instead & "COOLER TEMP" will be noted to the right. "ambient" or		Coole	ID:	@		°C Therm. ID:				
will be noted if neither is available.		Coole		@		°C Therm. ID:				
		Coole	ID:	@		°C Therm. ID:				
*If >6°C, were samples collected <8 hours	s ago? N/A	<u> </u>								
W 000										
If <0°C, were sample containers ice	e free? Yes	ļ								
Note: Identify containers received at non-compliant temporal in	o Hee									
Note: Identify containers received at non-compliant temperature form FS-0029 if more space is r										
Holding Time / Documentation / Sample Condition R	equirements	Note: R	efer to f	form F-083 "Sample Guide"	for specific ho	olding times.				
Were samples received within holdin										
		Ī								
Do samples match COC** (i.e.,sample IDs,dates/times coll	ected)? Yes									
**Note: If times differ <1hr, record details & login per C	COC.									
***Note: If sample information on containers differs from COC, SGS will default to	COC information)								
Were analytical requests clear? (i.e., method is specified for a		ļ								
with multiple option for analysis (Ex: BTEX,	Metals)									
				Uma-						
14/	*\ 10		N/A	***Exemption permitte	d for metals	(e.g,200.8/602	<u>:0B).</u>			
Were proper containers (type/mass/volume/preservative***	*)used? Yes	4								
Volatile / LL-Hg Red	nuiremente									
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with sa			ank sl	hared with 1215739						
Were all water VOA vials free of headspace (i.e., bubbles ≤										
Were all soil VOAs field extracted with MeOH										
Note to Client: Any "No", answer above indicates no	"		ndard	procedures and may im	nact data du	ıalitv				
				- 300aa.oo ana may m	- aut data qu					
Additiona	al notes (if a	applica	ble):							



Sample Containers and Preservatives

Container Id	<u>Preservative</u>	Container Condition	Container Id	<u>Preservative</u>	Container Condition
1215743001-A	HCL to pH < 2	OK			
1215743001-B	HCL to pH < 2	OK			
1215743001-C	HCL to pH < 2	OK			
1215743002-A	HCL to pH < 2	OK			
1215743002-B	HCL to pH < 2	OK			
1215743002-C	HCL to pH < 2	OK			

Container Condition Glossary

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

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

Field Duplicate Precision

Analyte	Sample MW-1	Sampl	RPD		
	Results	Units	Results	Units	
Benzene	0.45	ug/L	0.5	ug/L	10.52631579

Laboratory Data Review Checklist

Completed By:
Michaela McGee
Title:
Staff Scientist
Date:
09/10/2020
Consultant Firm:
Travis/Peterson Environmental Consulting
Laboratory Name:
SGS North America, Inc.
Laboratory Report Number:
1215743
Laboratory Report Date:
09/28/2021
CS Site Name:
MVI Cornerstone Mall
ADEC File Number:
Hazard Identification Number:

1	215743
Labo	ratory Report Date:
0	9/28/2021
CS S	ite Name:
N	AVI Cornerstone Mall
N	Note: Any N/A or No box checked must have an explanation in the comments box.
1. <u>I</u>	<u>aboratory</u>
	a. Did an ADEC CS approved laboratory receive and <u>perform</u> all of the submitted sample analyses?
	$Yes \boxtimes No \square N/A \square$ Comments:
	b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
	$Yes \boxtimes No \square N/A \square$ Comments:
	SGS Fairbanks to SGS Anchorage
2. <u>C</u>	Chain of Custody (CoC)
	a. CoC information completed, signed, and dated (including released/received by)?
	$Yes \boxtimes No \square N/A \square$ Comments:
	b. Correct analyses requested?
	$Yes \boxtimes No \square N/A \square$ Comments:
3. <u>I</u>	Laboratory Sample Receipt Documentation
	a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?
	$Yes \boxtimes No \square N/A \square$ Comments:
	b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
	$Yes \boxtimes No \square N/A \square$ Comments:

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c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
Yes⊠ No□ N/A□ Comments:
d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
$Yes \square No \boxtimes N/A \square$ Comments:
e. Data quality or usability affected? Comments:
None
4. <u>Case Narrative</u>
a. Present and understandable?
Yes⊠ No□ N/A□ Comments:
b. Discrepancies, errors, or QC failures identified by the lab?
$Yes \square No \boxtimes N/A \square$ Comments:
c. Were all corrective actions documented?
Yes□ No□ N/A⊠ Comments:
d. What is the effect on data quality/usability according to the case narrative?
Comments:
None

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La	bora	tory Report Date:	
	09	28/2021	
CS	Sit	e Name:	
	М	VI Cornerstone Mall	
5.	Sa	nples Results	
		a. Correct analyses performed/reported as requested on COC?	
	ı	Yes \boxtimes No \square N/A \square Comments:	
		1. A111'11. 1. 1.1.' 4'49	
		b. All applicable holding times met?Yes ⋈ No □ N/A □ Comments:	
	•	c. All soils reported on a dry weight basis?	
		Yes \square No \square N/A \boxtimes Comments:	
		Groundwater Samples. No soil	
	•	d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level the project?	for
	ĺ	Yes⊠ No□ N/A□ Comments:	
		e. Data quality or usability affected?	
_	0.0		
6.	QC	<u>Samples</u>	
		a. Method Blank	
		i. One method blank reported per matrix, analysis and 20 samples?	
	ı	Yes \boxtimes No \square N/A \square Comments:	
	Ī	ii. All method blank results less than limit of quantitation (LOQ) or project specified object Yes⊠ No□ N/A□ Comments:	tives?

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Labo	ratory Report Date:
09	9/28/2021
CS Si	ite Name:
M	AVI Cornerstone Mall
	iii. If above LOQ or project specified objectives, what samples are affected? Comments:
	None
	iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined? Yes \square No \square N/A \boxtimes Comments:
	v. Data quality or usability affected? Comments:
	None
	b. Laboratory Control Sample/Duplicate (LCS/LCSD)
	 i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
	$Yes \boxtimes No \square N/A \square$ Comments:
	ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
	Yes⊠ No□ N/A□ Comments:
	iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
	$Yes \boxtimes No \square N/A \square$ Comments:
	iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
	Yes⊠ No□ N/A□ Comments:

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La	aboratory Report Date:
	09/28/2021
CS	S Site Name:
	MVI Cornerstone Mall
	v. If %R or RPD is outside of acceptable limits, what samples are affected? Comments:
	None
	vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined? Yes \square No \square N/A \boxtimes Comments:
	Test Not IVAD comments.
	vii. Data quality or usability affected? (Use comment box to explain.) Comments:
	None
	 c. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Note: Leave blank if not required for project i. Organics – One MS/MSD reported per matrix, analysis and 20 samples? Yes⊠ No□ N/A□ Comments:
	ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?
	$Yes \boxtimes No \square N/A \square$ Comments:
	 iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? Yes⊠ No□ N/A□ Comments:
	 iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate. Yes ⊠ No□ N/A□ Comments:

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CS Site 1	Name:
MVI	Cornerstone Mall
	v. If %R or RPD is outside of acceptable limits, what samples are affected? Comments:
N	lone
	vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined? Yes \square No \square N/A \boxtimes Comments:
_	vii. Data quality or usability affected? (Use comment box to explain.) Comments:
N	one
d	. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only
	 i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?
	Yes⊠ No□ N/A□ Comments:
	ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and
	project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)
	Yes⊠ No□ N/A□ Comments:
	iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?
	$Yes \square No \square N/A \boxtimes Comments:$
	iv. Data quality or usability affected? Comments:
N	lone

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CS Site Name:
MVI Cornerstone Mall
e. Trip Blanks
 i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
$Yes \boxtimes No \square N/A \square$ Comments:
ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
Yes⊠ No□ N/A□ Comments:
iii. All results less than LOQ and project specified objectives? Yes⊠ No□ N/A□ Comments:
iv. If above LOQ or project specified objectives, what samples are affected? Comments:
None
v. Data quality or usability affected? Comments:
None
 f. Field Duplicate i. One field duplicate submitted per matrix, analysis and 10 project samples? Yes⊠ No□ N/A□ Comments:
ii. Submitted blind to lab? Yes⊠ No□ N/A□ Comments: MW-1 and MW-1b

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S Site Name:
MVI Cornerstone Mall
iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water, 50% soil)
Yes⊠ No□ N/A□ Comments:
iv. Data quality or usability affected? (Use the comment box to explain why or why not.) Comments:
None
g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?
$Yes \square No \square N/A \boxtimes Comments:$
No equipment blank.
i. All results less than LOQ and project specified objectives?
$Yes \square No \square N/A \boxtimes Comments:$
No equipment blank.
ii. If above LOQ or project specified objectives, what samples are affected? Comments:
None
iii. Data quality or usability affected? Comments:
None

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La	boratory Report Date:		
	09/28/2021		
CS	Site Name:		
	MVI Cornerstone Mall		
7.	Other Data Flags/Qualifiers (ACOI	E, AFCEE, Lab Specific, etc.)	
	a. Defined and appropriate?		
	Yes⊠ No□ N/A□	Comments:	

CORNERSTONE MALL GROUNDWATER MONITORING DATA

Sample ID	Date	Depth to Groundwater	DRO	GRO	Trichlorofluormethane	Benzene	Toluene	Ethylbenzene	Xylenes
ADEC Cleanup Level	mg/L	feet below ground surface	1.5	2.2	5.2	0.0046	1.1	0.015	0.19
MW-1	4/24/2003	15.98	3.33	4.24	NA	0.112	0.138	0.0912	0.3476
MW-1	9/26/2003	13.52	2.85	2.24	NA	0.056	0.0114	0.0255	0.411
MW-1	8/25/2004		3.35	1.79	NA	0.0493	0.00425	0.0125	0.0425
MW-1	5/23/2005	14.17	1.49	1.65	NA	0.342	ND	ND	0.0342
MW-1	8/14/2006	14.97	1.62	1.25	NA	0.00924	ND	ND	0.0359
MW-1	9/11/2007	14.72	ND	1.25	NA	0.141	0.0012	0.0133	0.0397
MW-1	11/19/2008	14.94	0.906	0.981	NA	0.153	0.00312	0.0125	0.03077
MW-1	9/29/2009	14.94	0.63	1.39	NA	0.154	ND	0.0061	0.0139
MW-1	10/5/2010	15.60	0.139	1.48	NA	0.278	ND	0.00742	0.0162
MW-1	10/5/2010	15.60	0.166	1.44	NA	0.273	ND	0.073	0.0161
MW-1	9/1/2011	13.90	0.129	0.556	NA	0.177	ND	0.00632	0.0161
MW-1	9/1/2011	13.90	0.141	0.535	NA	0.108	ND	0.00611	0.0156
MW-1	8/5/2013	15.40	0.127	0.417	NA	0.0567	0.00077	0.00167	0.00478
MW-1	8/5/2013	15.40	0.124	0.412	NA	0.0584	0.00074	0.00173	0.0048
MW-1	8/26/2014	12.53	0.0609J	0.399	NA	0.0411	ND	0.00156J	0.00538
MW-1	8/26/2014	12.53	0.0641J	0.291	NA	0.0412	ND	0.00159J	0.00542
MW-1	8/28/2015	14.05			NA	0.0126	ND	ND	0.00145J
MW-1	8/28/2015	14.05			NA	0.0132	ND	NS	0.00151J
MW-1	8/16/2016	11.31			NA	0.00268	0.000360 J	ND	0.00107J
MW-1	8/22/2017	14.28			NA	0.002	0.00035J	ND	0.000810J
MW-1	7/20/2018	13.59			NA	0.00489	ND	ND	0.00166J
MW-1	8/28/2019	12.44			NA	0.00124	ND	ND	ND
MW-1	9/1/2020	18.01			0.0147	ND	ND	ND	ND
MW-10*	9/1/2020	18.01			0.0137	0.000129J	ND	ND	ND
MW-1	9/1/2021	13.16			NA	0.00045	ND	ND	ND
MW-1b*	9/1/2021	13.16			NA	0.0005	ND	ND	ND

MW-2	4/24/2003	17.25	ND	ND	NA	0.000568	ND	ND	ND
MW-2	9/26/2003	13.81	ND	ND	NA	ND	ND	ND	ND
MW-2	8/25/2004		ND	ND	NA	ND	ND	ND	ND
MW-2	8/14/2006	16.02	ND	ND	NA	ND	ND	ND	ND
MW-2	9/11/2007	15.83	ND	ND	NA	ND	0.000773	ND	ND
MW-2	11/19/2008								
MW-2	9/29/2009								
			_						
MW-3	4/24/2003	16.92	ND	ND	NA	ND	ND	ND	ND
MW-3	9/26/2003	13.50	ND	ND	NA	ND	ND	ND	ND
MW-3	8/25/2004		ND	ND	NA	ND	ND	ND	ND
MW-3	5/23/2005	15.16	ND	ND	NA	ND	ND	ND	ND

Sample ID	Date	Depth to Groundwater	DRO	GRO	Trichlorofluormethane	Benzene	Toluene	Ethylbenzene	Xylenes
ADEC Cleanup Level	mg/L	feet below ground surface	1.5	2.2	5.2	0.0046	1.1	0.015	0.19
MW-3	8/14/2006	15.95	ND	ND	NA	ND	ND	ND	ND
MW-3	9/11/2007	15.73	ND	ND	NA	ND	ND	ND	ND
MW-3	11/19/2008								
MW-3	9/29/2009					-			
MW-4	8/25/2004		ND	ND	NA	ND	ND	ND	ND

NOTES:

DRO Diesel Range Organic compounds GRO Gasoline Range Organic Compounds

mg/L milligrams per liter

ADEC Alaska Department of Environmental Conservation

Analysis not performed MW-2 and MW-3 were decommissioned in 2021

BOLD Analyte detected above cleanup level NA ND Analyte was not ran as part of sampling

non-detect

MVI cornerstone Mall 10:12am Started purging MW-1:51 1 September 1, 2021 water appeared & little # 1114-01 clovay with a strange odor. annual groundwater monitoring using a penistaltic pump. 9:45 am Michaera Mcoce (TPEC) the pump speed: 13.77 QA/QC arrived onsite. 11:10 am carried sample MW-1 for BTEX. Objective: 11:15 am Conected sample MW-16 for BTEX. Here to groundwater sample MW-1 using a penistaltic pump 11:25 am MLM offsite. Buckers left by the For BTEX (8240B). Am jn betyden yellow/orange weather: posts. Currently 55°F parting cloudy with sw 1 mph winds 75%. humidity. MW-DTW: 13.14 w. Winner DTB: 18.48 4" diameter well. hush mount well. 18.68-13.16 = 5.51 x 0.65=3.5 x 3 well volume IN THE 10 gailons purge. e) F. E: - . T. E. C.

Groundwater Well Sampling Log

Well ID: MW-1

Project Information

Travis/Peterson Environmental Consulting 329 2nd Street Fairbanks, Alaska 99701 Phone: (907) 455-7225 **Well Information**

Job No./Client: MVI #1114-01				Type: S	tickup / Elus	hmount	
Location: MVI Cornerstone Mall	Ground surface to top of stickup (ft):						
Sampling Personnel: Michaela McGel		Date: 9/1	12021				
Weather Conditions/Temp: 55° = parmy cloudy							
GPS Data Collected? YES NO					tarted: 9		
				Time Com	pleted: 11:3	Vam	
Well Condition Lock present and operational? YES NO					We	ll Data	
Well label legible? YES NO				Diamete	r (in):4_	inches	
Evidence of frost-jacking? YES NO				Type of ca	asing: hush	moun	
Notes: No 10ck i No 1aher			D	epth to Wate	r (ft): 13.	10	
	Depth to Bottom (ft): 18.68						
Purge Water	Feet of Water in Well: 5.52						
Water Disposal Method: Laving onsite No. of buckets: 2 5-gallon blve buckets		Gallons	per foot:		1" 1.25" 0.04 0.08	2"	
No. of buckets: 2 J-gallon blue buckets			(One Well Vol	ume: 3.5		
Location: next to ATM between yellow pous		Total F	Purge Wa	ater Volume ((gal): 109	alions	
Water Quality Parameters:						,	
Time Temp $\pm 3\%$ (min of ± 0.1 PH ± 0.2 Conductivity (μ S/cm) $\pm 3\%$ DO (mg/L) $\pm 10\%$	Time	Temp ± 3% (min of ± 0.2 °C)	pH ± 0,1	Conductivity (μS/cm) ± 3%	DO (mg/L) ± 10%		
	The state of the s	The state of the s					

Sampling Information Pump Method: Penistaltic Sample Name: MW-1 Pump Start: 10:12am Duplicate: NO X YES, ID: MW-16 Purge Rate (gal/min): 13.77 Time: 11:10 am / 11:15 am Pumping End: 11:10 am No. of Containers: 3 voa vials each Pump set to depth (ft):_____ Analyses: BTEX Equipment Blank? YES NO Notes:_