Geosyntec consultants

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22 January 2024

Rachel Caron
Washington State Department of Ecology
Toxics Cleanup Program
Central Regional Office
1250 W. Alder St.,
Union Gap, WA 98903-0009

Subject: **Post-Injection Groundwater Compliance Data Transmittal and Monitoring Well Installation**
Nachurs Alpine Solutions
101 North 1st Street, Sunnyside, Washington
Ecology Cleanup Site ID: 14601
Facility/Site ID: 29243

Dear Ms. Caron:

Geosyntec Consultants has prepared this Post-Injection Groundwater Compliance Data Transmittal (Data Transmittal) to present the results of groundwater monitoring completed between December 2022 and May 2023, as well as installation of the monitoring well, MW-5, at the Former Nachurs Alpine Solutions (NAS) Site (the Site) located in Sunnyside, Washington (Figure 1). This work is being performed in accordance with the Corrective Action Implementation – Injection Report and Compliance Monitoring Plan[1] and is being submitted by Geosyntec Consultants on behalf of Wilbur-Ellis Holdings II, Inc. (Wilbur-Ellis), the direct parent company of NAS.

BACKGROUND

The Site is an approximately 0.35-acre property owned by Burlington Northern Santa Fe (BNSF). The Site is currently a vacant, unpaved lot and located in an industrial area of Sunnyside, Washington. NAS operated at the Site from 1973 to 2017 and used the Site to receive fertilizer by rail spur and then distribute locally. While closing operations at the Site, concentrations of

[1] Geosyntec, 2023. Corrective Action Implementation – Injection Report and Compliance Monitoring Plan. 11 July 2023.

constituents of potential concern (COPC) were identified in the subsurface at the Site, and NAS entered into the Department of Ecology's (Ecology's) Voluntary Cleanup Program (VCP) in 2020.

Additional remedial investigation activities were conducted after entering in the VCP. Based on these investigations, COPCs at the Site above background levels and MTCA cleanup levels in groundwater and include nitrate, arsenic, cobalt, and molybdenum. A *Remedial Investigation and Cleanup Action Plan* (RI-CAP)[2] was submitted to Ecology on 22 September 2022 and recommended in situ denitrification with metals attenuation as the remedial approach to address COPCs in groundwater at the Site. Ecology issued an Opinion on Proposed Cleanup (Opinion Letter) dated 18 November 2022, stating that no further remedial action will be likely based on the corrective action presented in the RI-CAP.[3] In its Opinion Letter, Ecology also requested that, following injections, an additional well (MW-5) be installed to supplement the current well network and that an updated compliance monitoring plan be submitted.

In situ denitrification injections were completed in November 2022, in accordance with the engineering design presented in the RI-CAP, this included injections of emulsified vegetable oil and sodium lactate electron donors at the areas shown in Figure 2. Injection field activities were documented in the *Corrective Action Implementation - Injection Report and Compliance Monitoring Plan*, submitted to Ecology on 11 July 2023.[4] Documentation of the MW-5 well installation and initial post injection compliance monitoring events in 2023 are documented herein.

MONITORING WELL MW-5 INSTALLATION

An additional monitoring well, MW-5, was installed at the location shown in Figure 2. The purpose of this well is to monitor Site COPCs in the western portion of the Site after the injections that were completed in November 2022.

The new monitoring well, MW-5, was installed on May 3, 2023 by Holocene Drilling, Inc, of Puyallup, Washington, (Holocene) under direct supervision of a Geosyntec field geologist. The well was installed in the first encountered groundwater. A direct push drill rig was used to advance

[2] Geosyntec, 2022. Remedial Investigation and Cleanup Action Plan. Former Nachurs Alpine Solutions. 23 September 2022.
[3] Ecology, 2022. Opinion on Proposed Cleanup for the following Property associated with a contaminated Site. State of Washington Department of Ecology. 10 November 2022.
[4] Geosyntec, 2023. Corrective Action Implementation – Injection Report and Compliance Monitoring Plan. Former Nachurs Alpine Solutions. 11 July 2023.

a borehole to 15 feet below ground surface (ft bgs) to install this well, which was constructed similar to existing monitoring wells on the Site with the screen interval placed at 5 to 15 ft bgs as shown in Attachment 1. MW-5 was then developed by Blaine Tech Services of Auburn, Washington and surveyed by PLSA Surveying of Yakima, Washington on May 10, 2023. Development and surveying were also completed under direct supervision of a Geosyntec field geologist.

COMPLIANCE GROUNDWATER MONITORING

Scope of Work Completed in 2023

Following the injections conducted in November 2022, Geosyntec conducted four groundwater monitoring events – December 2022 and January, February, and May 2023. During the December 2022, January 2023, and February 2023 monitoring events four monitoring wells (MW-1 through MW-4) were sampled. Five monitoring wells (MW-1 through MW-5) were sampled following the installation of MW-5 in May 2023. The groundwater samples were analyzed for the Site COPCs, as well as geochemical parameters (i.e., total and dissolved iron and manganese, sulfate, and dissolved organic carbon). During sampling, water level and field parameters, including dissolved oxygen, oxidation reduction potential (ORP), pH, conductivity, turbidity, and temperature, were measured.

Results

The water level data is presented in Table 1, and the analytical data and field parameters are summarized in Table 2 with COPC concentrations compared to the Target Remediation Levels (TRLs) established in the RI-CAP. The groundwater sampling logs and laboratory analytical reports are included in Attachment 2 and Attachment 3, respectively.

The post injection groundwater monitoring results can be summarized, as follows:

- The groundwater gradient at the Site is east-southeast and remains consistent with past monitoring events. Groundwater elevation data ranged/averaged from 740.10 feet North American Vertical Datum of 1988 (ft NAVD88) at upgradient well MW-1 to 738.46 at downgradient well MW-4.

- Nitrate as nitrogen is below the TRL of 48 milligrams per liter (mg/L) in samples collected from MW-2 and MW-3. However, nitrate remains above the TRL in samples collected from MW-1, MW-4, and MW-5.

- Concentrations of arsenic in samples collected at MW-1, MW-4, and MW-5 are below the TRL of 71 micrograms per liter (µg/L). Arsenic in samples from MW-2 and MW-3 temporarily decreased to below the TRL following remedial injections, and by the May 2023 event was back to baseline concentrations and slightly over the TRL.

- Concentrations of cobalt at MW-1 and MW-5 are below the TRL of 5 µg/L. Cobalt concentrations in samples from MW-2, MW-3, and MW-4 increased following remedial injections, but concentrations have shown a steady decrease in the May 2023 event.

- Concentrations of molybdenum in samples from MW-1, MW-2, and MW-3 are below the TRL of 80 µg/L. Molybdenum is above the TRL in samples from MW-4 and MW-5. Similar to cobalt, molybdenum concentrations temporarily increased following injections in samples from MW-4.

- Geochemical and field parameters demonstrated initial influence from the addition of the electron donor amendments into the subsurface. This was evidenced by the changes within the injection area (primarily MW-2 and MW-3), including increase in dissolved organic carbon, decreases in sulfate, increases in iron and manganese (particularly the dissolved phase), decreases in DO and ORP, and increase in conductivity.

CONCLUSIONS AND NEXT STEPS

Overall, the initial monitoring post injection is showing positive signs of the initial influence of electron donor in treatment COPCs at the Site, as well as reductions in the primary COPC of nitrate as nitrogen. However, additional time and monitoring is needed to continue to assess remedial progress following injections. Because this remedy is in its early stages, Geosyntec in discussions with Ecology paused the groundwater sampling following the May 2023 event, and the schedule was approved by Ecology on August 2, 2023[5], to allow for more time for subsurface conditions to stabilize following injections.

[5] Ecology, 2023. Approved. Corrective Action Implementation – Injection Report and Compliance Monitoring Plan. Former Nachurs Alpine Solutions. State of Washington Department of Ecology. 2 August 2023.

In 2024, Geosyntec anticipates conducting at least two compliance monitoring events, one in winter (likely late first quarter) and one in summer (likely third quarter). Results of these compliance monitoring events will be reported to Ecology by the end of 2024.

CLOSING

Please contact either Melissa Asher or David Parkinson at 206-496-1449 and 206-496-1446, respectively, if you have questions regarding the information presented herein.

Sincerely,

Melissa Asher

David Parkinson

Melissa Asher P.E. (WA, CA, CO)
Senior Principal

David L. Parkinson, PhD., P.G. (WA, TX)
Principal

Cc: BNSF Environmental Lease Team
Jan Thompson, Wilbur-Ellis

Attachments:

Table 1 – Groundwater Depth and Elevation Summary
Table 2 – Groundwater Sampling Results

Figure 1 – Site Location Map
Figure 2 – Groundwater Compliance Monitoring Well Locations

Attachment 1 - Borehole Log of MW-5
Attachment 2 - Groundwater Sampling Forms
Attachment 3 – Laboratory Analytical Reports

PNR0696D

Tables

TABLE 1: GROUNDWATER DEPTH AND ELEVATION SUMMARY

Former Nachurs Alpine Solutions Facility, Sunnyside, WA

WELL ID.	MW-1		MW-2		MW-3		MW-4		MW-5	
DIAMETER (in)	2		2		2		2		2	
WELL DEPTH (ft)	15.00		15.00		15.00		15.00		15.00	
SCREEN INTERVAL (ft)	5-15		5-15		5-15		5-15		5-15	
TOC ELEVATION (ft)	743.33		744.40		744.41		744.40		744.26	
DATE	ELEV. (ft)	DTW (ft)	ELEV. (ft)	DTW (ft)	ELEV. (ft)	DTW (ft)	ELEV. (ft)	DTW (ft)	ELEV. (ft)	DTW (ft)
9/2/2020	740.35	2.98	739.42	4.98	738.99	5.42	738.62	5.78	--	--
12/9/2020	740.61	2.72	739.73	4.67	739.19	5.22	738.99	5.41	--	--
3/3/2021	740.28	3.05	739.45	4.95	739.23	5.18	739.08	5.32	--	--
6/9/2021	739.92	3.41	739.20	5.20	738.76	5.65	738.42	5.98	--	--
9/15/2021	740.13	3.20	739.37	5.03	739.01	5.40	738.70	5.70	--	--
6/8/2022*	740.58	2.75	740.09	4.31	739.29	5.12	738.90	5.50	--	--
12/14/2022	741.23	2.10	739.73	4.67	739.38	5.03	739.03	5.37	--	--
1/18/2023	739.27	4.06	739.59	4.81	739.55	4.86	739.31	5.09	--	--
2/15/2023	740.32	3.01	739.35	5.05	739.37	5.04	738.67	5.73	--	--
5/17/2023	740.10	3.23	739.23	5.17	738.87	5.54	738.48	5.92	739.55	4.71

Notes:

* Baseline sampling event, pre-remedy implementation.

DTW = depth to water

ELEV = elevation (ft NAVD88)

ft = feet

in = inches

TABLE 2: GROUNDWATER SAMPLING RESULTS AND SCREENING LEVELS
Former Nachurs Alpine Solutions Facility, Sunnyside, WA

Location		Screen Interval Depth (ft)	Date Collected	Site-Specific Constituents of Potential Concern							Geochemical Parameters						Field Parameters					
				Nitrogen, Nitrate (mg/L)	Arsenic (µg/L)	Cobalt (µg/L)	Molybdenum (µg/L)	Arsenic (dissolved) (µg/L)	Cobalt (dissolved) (µg/L)	Molybdenum (dissolved) (µg/L)	Sulfate (mg/L)	Dissolved Organic Carbon (mg/L)	Iron (µg/L)	Manganese (µg/L)	Iron (dissolved) (µg/L)	Manganese (dissolved) (µg/L)	Dissolved Oxygen (mg/L)	Oxidation Reduction (mV)	pH (SU)	Conductivity mS/cm	Turbidity NTU	Temp (°C)
MW-1	Up-Gradient	5-15	09/02/20	68	NA[1]	NA[1]	NA[1]	14	< 1.0	29	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			12/9/20	19	10	< 1.0	29	10	< 1.0	28	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			3/3/21	20	8.9	< 1.0	23	8.8	< 1.0	23	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			6/9/21	14	11	1.4	22	10	< 1.0	27	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			9/15/21	13	11	< 1.0	29	11	< 1.0	30	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			6/8/2022*	15	11	0.8	28	10	0.067	27	229	3.2	1,340	28.0	2	2.1	1.78	101.5	7.70	1.41	46.7	16.4
			12/14/22	81[a]	10	< 1.0	25	9.4	< 1.0	24	240	3.1	570	1,200	< 50	140	2.42	79.0	7.55	1.46	13.9	14.6
			1/18/23	110	7.9	< 1.0	23	7.7	< 1.0	24	260	3.0	220	190	< 50	19	6.79	-34.1	7.51	0.45	3.00	6.47
			2/15/23	120	9.5	< 1.0	26	8.4	< 1.0	23	260	2.6	1,900	690	170	110	0.42	61.0	6.93	2.23	58.3	10.7
			5/17/23	190	10.0	1.9	27	8.7	< 1.0	26	480	2.7	3,700	650	450	130	2.80	185.1	6.47	2.39	54.3	14.98
MW-2	On-Site (southern central edge)	5-15	09/02/20	430	NA[1]	NA[1]	NA[1]	210	9	32	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			12/9/20	89	130	7.5	28	130	7	28	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			3/3/21	98	110	10	41	110	9.7	39	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			6/9/21	94	76	9.1	37	80	9.7	37	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			9/15/21	92	77	8.2	31	79	8.2	30	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			6/8/2022*	90	70	9.6	38	67	9.1	36	584	5.8	156.0	237	11.9	182.0	1.35	124.7	7.64	3.10	8.67	16.0
			12/14/22	< 0.15[a]	47	78	22	37	74	19	250	950	13,000	9,200	12,000	8,700	1.44	-86.3	5.83	2.82	58.4	12.8
			1/18/23	0.44	57	46	7.2	46	44	3.4	12	1,100	37,000	6,700	36,000	6,500	1.03	-81.6	5.93	0.91	30.7	6.04
			2/15/23	0.17	67	30	5.6	55	30	1.9	1.0	1,100	39,000	5,500	38,000	5,500	0.16	74.9	7.00	4.21	38.0	10.4
			5/17/23	< 0.15	80	14	3.6	70	14	< 1.0	0.32	990	29,000	3,200	29,000	3,300	0.31	212.1	6.78	4.62	33.0	15.0
MW-3	On-Site (Northeastern edge)	5-15	09/02/20	83	NA[1]	NA[1]	NA[1]	72	< 1.0	36	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			12/9/20	22	81	<1.0	40	80	< 1.0	41	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			3/3/21	23	85	< 1.0	36	87	< 1.0	41	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			6/9/21	27	71	< 1.0	50	71	< 1.0	50	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			9/15/21	19	60	< 1.0	45	60	< 1.0	42	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			6/8/2022*	15	72	0.7	32.8	73	0.325	33	131	2.9	127.0	597.0	30	173.0	0.51	140.0	0.51	1.18	9.33	16.3
			12/14/22	< 0.15[a]	51	100	7.5	41	100	3.3	36	950	52,000	13,000	52,000	13,000	1.32	-105.1	6.07	2.54	22.7	14.8
			1/18/23	0.49	73	96	15	73	100	12	0.69	700	50,000	12,000	53,000	12,000	1.01	-33.6	6.28	0.80	11.0	6.16
			2/15/23	0.57	74	84	9.6	73	82	8.4	0.74	580	61,000	12,000	61,000	12,000	0.13	-33.3	7.31	3.80	20.3	12.5
			5/17/23	< 0.15	78	38	13	76	37	12	0.27	250	48,000	7,700	47,000	7,400	0.22	165.7	6.82	3.70	19.7	17.6
MW-4	On-Site (southeastern edge)	5-15	09/02/20	760	NA[1]	NA[1]	NA[1]	65	19	130	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			12/9/20	160	68	15	120	66	15	120	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			3/3/21	160	67	18	130	69	18	130	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			6/9/21	170	65	17	110	66	17	120	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			9/15/21	180	65	18	120	64	18	120	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-
			6/8/2022*	185	58.3	18.8	133	59	18.3	135	667	7.4	458	237	33.6	203.0	1.09	234.5	7.98	3.79	20.7	16.7
			12/14/22	7[a]	46	21	140	45	21	140	6.5	9.4	320	420	< 50	350	1.39	-110.7	7.58	3.45	9.69	14.6
			1/18/23	360	46	15	210	48	15	210	480	12	< 50	380	< 50	370	0.96	321.2	7.79	0.86	3.00	7.40
			2/15/23	320	53	13	200	260	66	980	490	12	290	610	< 500	2,900	0.13	-24.4	7.20	4.37	17.3	12.5
			5/17/23	340	53	17	140	52	16	130	500	10	130	680	< 50	620	0.21	188.2	7.04	5.10	16.7	15.7
MW-5	On-Site (Western portion)	5-15	5/17/23	80	5.8	2.2	110	5.3	1.9	110	230	5.0	500	570	< 50	550	0.40	198.7	6.55	3.39	30.3	15.4
Target Remediation Levels[2]				48	71	5	80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

* - Baseline sampling event, pre-remedy implementation.

[a] Data quality issues occurred on the first sample runs by the laboratory, and the samples were re-analyzed outside of the holding time.

1. Due to field staff oversight, total metals samples were inadvertently not collected from the monitoring wells on 2 September 2020.
2. Target Remediation Levels are based on groundwater samples from MW-1, SB-16, and SB-17 due to their upgradient locations and were established in the Remedial Investigation Cleanup Action Plan submitted by Geosyntec September 2022 (Geosyntec, 2022).

Acronyms:

< = Not detected above the reported laboratory method detection limit.

- = Data not included.

-- = No target Site-Specific Remediation Level selected or available (Geosyntec,2022).

µg/L = micrograms per liter

mg/L = milligrams per liter

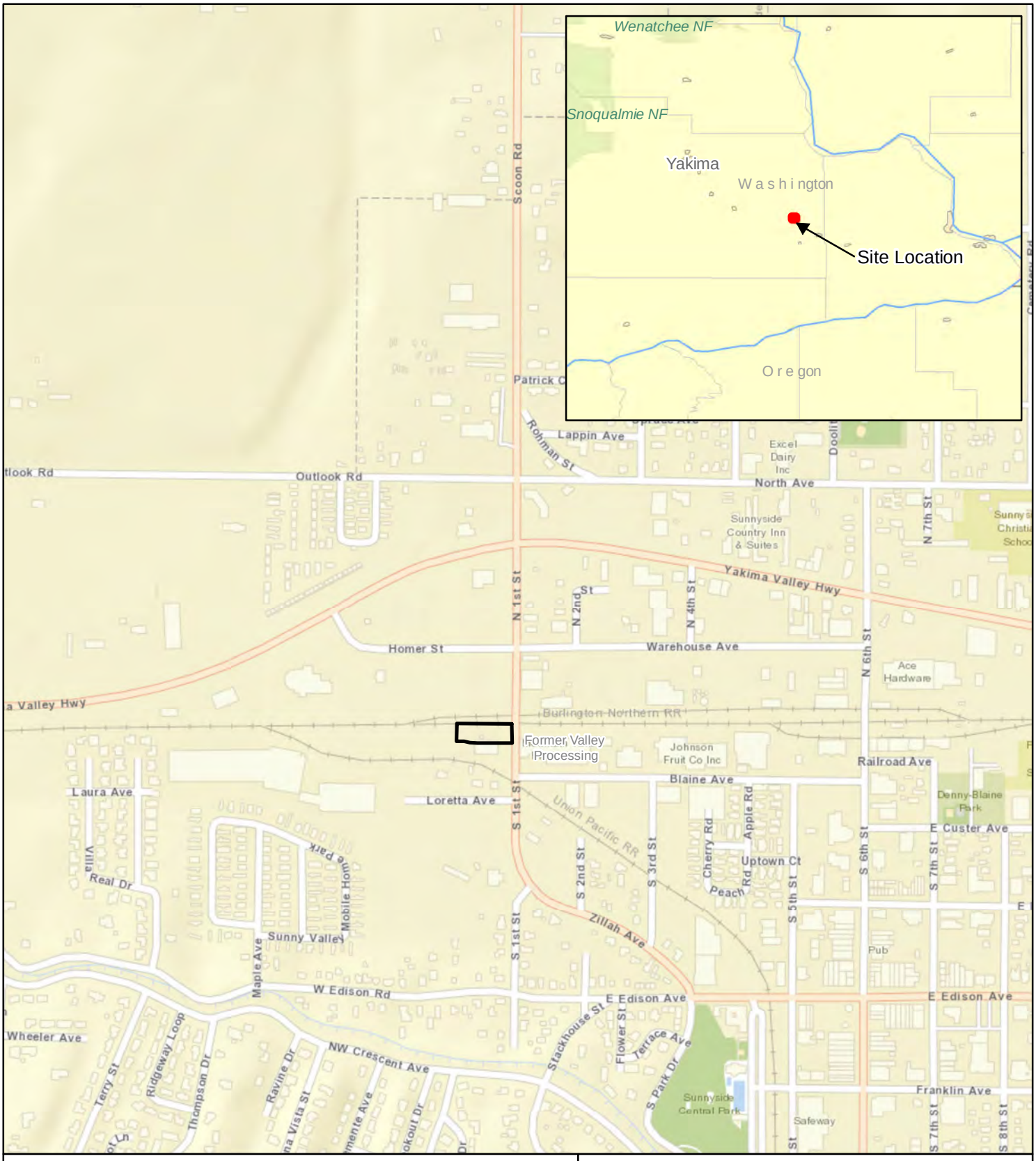
MW = monitoring wells

NA = Not Analyzed

Bold = Analyte was detected.

Highlight = Analyte was detected at concentrations that are greater than the Target Remediation Levels.

Figures



Legend

Site Location

N

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

0 0.05 0.1 0.2 0.3 Miles

Site Location Map

101 North 1st Street
Sunnyside, Washington

Geosyntec consultants

PNR0696D	December 2023

Figure 1

P:\CAD_GIS\Projects\PNR0696_Sunnyside\MXDs\Revisions111721\Figure 1 Site Location Map.mxd 12/7/2021 9:16:37 AM

Notes:
Map provided by ESRI Basemaps 2016.
MW=Monitoring Well
The Site Boundary is the approximate area leased by NAS from BNSF.
General groundwater flow direction based on gradients observed at MW-1, MW-2, MW-3, and MW-4 during the 2020 and 2021 quarterly groundwater sampling events.

Legend

- Monitoring Well Location
- General Groundwater Gradient
- Site Boundary
- Lower Concentration Subarea Injection Area
- Higher Concentration Subarea Injection Area

N

0 50 Feet

Groundwater Compliance Monitoring Well Locations

101 North 1st Street
Sunnyside, Washington

Geosyntec consultants

Figure 2

PNR0696D | December 2023

P:\CAD_GIS\Projects\PNR0696_Sunnyside\MXDs\Revisions032123\Figure 4 Groundwater Compliance Monitoring .mxd 6/12/2023 11:52:04 AM

Attachment 1

Geosyntec consultants
520 Pike Street, Suite 2600
Seattle, Washington 98101
Phone: 206.496.1450

GS FORM: CORE3 10/00

LOG OF MW-5

START DATE 5/3/2023
FINISH DATE 5/3/2023
PROJECT Sunnyside VCP
LOCATION Sunnyside, Wa
PROJECT NUMBER PNR0696

DEPTH (ft)	MATERIAL DESCRIPTION (SOIL NAME (USCS SYMBOL): Color, Moisture, Grain Size and Percentage, Plasticity, Consistency/Density, Other (Odor, Dry Strength, Mineral Content))	SYMBOLIC LOG	WELL LOG	Well Construction Material	SAMPLES: BLOW COUNT	SAMPLES: TYPE	SAMPLES: RECOVERY (%)	SAMPLES: PID READING (ppm)	TIME	COMMENTS
	Gravel, fill, and silty sand observed in the hand auger cuttings.			Cement Grout [Quickcrete]						
				Bentonite Seal [Haliburton Hole Plug]						
	Silty SAND (SM): Brown, moist, medium dense, fine sand.						100			Drillers collected a short interval to return to regular 5ft intervals.
	SILT with sand (ML): Grayish-brown, moist, stiff, fine sand.			Sand Pack [Industrial Sand]						
5				Slotted Well Screen (0.010)						
	Silty SAND (SM): Brown, moist to wet, medium dense, medium to fine sand.						100			Static water level at 7.79 ft bgs.
	SILT with sand (ML): Brown, wet, stiff, fine sand.									
10										
	SILT with sand (ML): Brown, wet, stiff, fine sand.						80			
15	End of boring @ 15 ft bgs									

CONTRACTOR Holocene
EQUIPMENT Geoprobe 7800
DRILL MTHD Direct Push
DIAMETER (in) 4
LOGGER M. Elliott **REVIEWER** D. Jensen
NORTHING
EASTING
ANGLE Vertical
BEARING ------
PRINTED 12/08/23

REMARKS: Hand auger to approximately 2 ft bgs. Observed sandy silt with some gravel.

COORDINATE SYSTEM:

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG W/ WELL (OAKLAND II) MW-5.GPJ GEOSNTEC.GDT 12/8/23

Attachment 2

Geosyntec consultants

Daily Field Log

520 Pike Street, Suite 2600
Seattle, WA 98101
206-496-1471

Project Name: **Project Number:** PNR0696C **Page** 1 **of** 1

Date: 12/14/22 **Location:** Sunnyside, WA **Logged By:** Sam Scherer

Weather Conditions: cloudy, high 20°Fs

Tailgate Safety Meeting Time: **Contractor:**

Personnel: Name	Company	Time In	Time Out
Sam Scherer	Geosyntec	1030	1621

Time	Activities
1030	arrived on site. and prepping for sampling
1049	checking YSI calibration 100 % DO: post cal value: 98.9 instrument reading: 98.4 specific conductance post cal value: 1413 mS/cm instrument reading: 1498
1110	Mobilized to MW-1. See attached sheet.
1215	Mobilized to MW-2. covered in snow - attempting to locate based on pictures.
1221	called Priyam Sharma for assistance locating MW-2.
1242	setting up on MW-2
1147	collected "GW-12142022-MW-1
1308	collected "GW-12142022-MW-2"
1435	collected "GW-12142022-MW-3"
1534	collected "GW-12142022-MW-4"
1313	collected "GW-12142022-DUP-1"
1621	SS left site

12.14.22

Copy to: Total Hrs.: Signature:

Geosyntec consultants

520 Pike Street, Suite 2600
Seattle, Washington 98101
PH 510.836.3034
FAX 510.836.3036

Groundwater Purging and Sampling Log

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Project No: PNK0696C	Task No:	Project Name:	Date: 12/14/22
Site Location:	Depth to Water (DTW)(ft): 2.10	Measurements Referenced to: TOC	
Well ID: MW-1	Total Well Depth (ft): 14.98	OVM (ppm) =	
Screen Interval (ft):	Well Diameter (inch): 2	Casing Volume:	
Pump Placement (ft): 8.75	DTW After Purge (ft):	3 Casing Volumes:	
Sampler(s): Sam Scherer			

Purging Equipment:
- ( ) Disposable Bailer
- ( ) Electric Submersible Pump
- ( ) Bladder Pump
- (x) peristaltic pump

Sampling Equipment:
- ( ) Disposable Bailer
- (X) Dedicated Tubing
- ( ) Other:_____

Type of Water Quality Meter Used:_____
- (X) Low-Flow/Micro Purging
- ( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe	
Well Diameter (inches).	gal/linear ft.
1.00	0.041
(2.00)	0.163
3.00	0.367
4.00	0.653
5.00	1.023
6.00	1.469

Time (24 hrs)	Water Level (ft TOC)	Turbidity (NTUs)	DO (mg/l)	pH (units)	Spec.Cond. (uS/cm)	ORP (mv)	Temp. (°C or °F)	Rate (ml/min)	Total Volume
---	---	(± 10%)	(± 0.3)	(± 0.1)	(± 3%)	(± 10mV)	---	---	--- (L)
1129	2.10	24.74	2.83	7.49	1464	121.6	14.5	200	0
1132	2.41	20.27	2.57	7.52	1462	108.5	14.4	200	0.6
1135	2.41	17.18	2.50	7.52	1461	100.6	14.4	200	1.2
1138	2.42	16.03	2.44	7.52	1459	94.6	14.4	200	1.8
1141	2.43	14.56	2.45	7.54	1462	84.2	14.5	200	2.4
1144	2.43	13.92	2.41	7.55	1460	78.0	14.6	200	3.0
1147	2.44	13.34	2.39	7.56	1455	74.9	14.7	200	3.6

Notes: sample time: 1147

Total Gallons Purged: 3.6 L

Presence of Sheen in groundwater sample (yes/no): no

Sample ID and Analysis: "GW-12142022-MW-2"

Duplicate Sample: no

Equipment Blank: no

Field Blank: no

Geosyntec consultants

520 Pike Street, Suite 2600
Seattle, Washington 98101
PH 510 836 3034
FAX 510 836 3036

Groundwater Purging and Sampling Log

Project No: PNR0696	Task No:	Project Name:	Date: 12 / 14 / 22
Site Location:	Depth to Water (DTW)(ft): 4.67	Measurements Referenced to: TOC	
Well ID: MW-2	Total Well Depth (ft): 15.14	OVM (ppm) =	
Screen Interval (ft):	Well Diameter (inch): 2	Casing Volume:	
Pump Placement (ft): 9.0	DTW After Purge (ft):	3 Casing Volumes:	
Sampler(s): Sam Scherer			

Purging Equipment:
- ( ) Disposable Bailer
- ( ) Electric Submersible Pump
- ( ) Bladder Pump
- X Peristaltic pump

Sampling Equipment:
- ( ) Disposable Bailer
- ( ) Dedicated Tubing
- ( ) Other:_____

Type of Water Quality Meter Used:_____
- (X) Low-Flow/Micro Purging
- ( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe	
Well Diameter (inches).	gal/linear ft.
1.00	0.041
(2.00)	0.163
3.00	0.367
4.00	0.653
5.00	1.023
6.00	1.469

Time (24 hrs)	Water Level (ft TOC)	Turbidity (NTUs)	DO (mg/l)	pH (units)	Spec.Cond. (uS/cm)	ORP (mv)	Temp. (°C or °F)	Rate (ml/min)	Total Volume
---	4.67 ---	(± 10%)	(± 0.3)	(± 0.1)	(± 3%)	(± 10mV)	---	---	---
1256	15.14 SS	70.27	1.86	5.87	2787	-76.0	12.9	200	0
1259	5.08	67.92	1.58	5.84	2798	-82.4	12.8	200	0.6
1302	5.15	61.65	1.49	5.83	2805	-84.5	12.9	200	1.2
1305	5.18	58.89	1.44	5.83	2815	-86.4	12.8	200	1.8
1308	5.21	54.60	1.40	5.83	2829	-88.0	12.8	200	2.4

(4)

Notes: sample time: 1308

Total Gallons Purged: 2.4 L

Presence of Sheen in groundwater sample (yes/no): yes some silver swirls

Sample ID and Analysis: "GW-12142022-MW-2"

Duplicate Sample: yes "GW-12142022-DUP-1" time: 1313

Equipment Blank: no

Field Blank: no

Geosyntec consultants

Groundwater Purging and Sampling Log

520 Pike Street, Suite 2600
Seattle, Washington 98101
PH 510 836 3034
FAX 510 836 3036

Project No: PNK01966	Task No:	Project Name:	Date: 12 / 14 / 22
Site Location:	Depth to Water (DTW)(ft): 5.03	Measurements Referenced to: TOC	
Well ID: MW-3	Total Well Depth (ft): 15.04	OVM (ppm) =	
Screen Interval (ft):	Well Diameter (inch): 2	Casing Volume:	
Pump Placement (ft): 10	DTW After Purge (ft):	3 Casing Volumes:	
Sampler(s): Sam Scherer			

Purging Equipment:
( ) Disposable Bailer
( ) Electric Submersible Pump
( ) Bladder Pump
x peristaltic pump

Sampling Equipment:
( ) Disposable Bailer
( ) Dedicated Tubing
( ) Other: _____

Type of Water Quality Meter Used: _____
(X) Low-Flow/Micro Purging
( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

Well Diameter (inches).	gal/linear ft.
1.00	0.041
(2.00)	0.163
3.00	0.367
4.00	0.653
5.00	1.023
6.00	1.469

Time (24 hrs)	Water Level (ft TOC)	Turbidity (NTUs)	DO (mg/l)	pH (units)	Spec.Cond. (uS/cm)	ORP (mv)	Temp. (°C or °F)	Rate (ml/min)	Total Volume
---	---	(± 10%)	(± 0.3)	(± 0.1)	(± 3%)	(± 10mV)	---	---	--- (L)
1423	5.03	23.75	1.69	6.06	2482	-109.6	14.8	200	0
1426	5.25	24.53	1.43	6.06	2514	-105.6	15.0	200	0.6
1429	5.25	23.80	1.36	6.07	2537	-105.2	14.7	200	1.2
1432	5.25	24.41	1.32	6.07	2536	-105.0	14.8	200	1.8
1435	5.27	19.83	1.29	6.07	2550	-105.2	14.8	200	2.4

Notes: sample time: 1435

Total Gallons Purged:

Presence of Sheen in groundwater sample (yes/no):

Sample ID and Analysis: "GW-12142022-MW-3"

Duplicate Sample: NO

Equipment Blank: NO

Field Blank: NO

Geosyntec consultants

520 Pike Street, Suite 2600
Seattle, Washington 98101
PH 510 836 3034
FAX 510 836 3036

Groundwater Purging and Sampling Log

Project No: PNR06966	Task No:	Project Name:	Date: 12/14/22
Site Location: Sunnyside, WA	Depth to Water (DTW)(ft): 5.37		Measurements Referenced to: TOC
Well ID: MW-4	Total Well Depth (ft): 15.08		OVM (ppm) =
Screen Interval (ft):	Well Diameter (inch): 2		Casing Volume:
Pump Placement (ft): 10	DTW After Purge (ft):		3 Casing Volumes:
Sampler(s): Sam Schurr			

Purging Equipment:
- ( ) Disposable Bailer
- ( ) Electric Submersible Pump
- ( ) Bladder Pump
- x Peristaltic

Sampling Equipment:
- ( ) Disposable Bailer
- ( ) Dedicated Tubing
- (X) Other: disposable tubing

Type of Water Quality Meter Used: _____
- (X) Low-Flow/Micro Purging
- ( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

Well Diameter (inches).	gal/linear ft.
1.00	0.041
2.00	0.163
3.00	0.367
4.00	0.653
5.00	1.023
6.00	1.469

Time (24 hrs)	Water Level (ft TOC)	Turbidity (NTUs)	DO (mg/l)	pH (units)	Spec.Cond. (uS/cm)	ORP (mv)	Temp. (°C or °F)	Rate (ml/min)	Total Volume
---	---	(± 10%)	(± 0.3)	(± 0.1)	(± 3%)	(± 10mV)	---	---	--- (L)
1522	5.37	5.26	1.99	7.36	3399	-101.5	14.2	200	0
1525	5.46	6.03	1.52	7.49	3452	-108.8	14.5	200	0.6
1528	5.46	7.71	1.44	7.55	3453	-110.5	14.5	200	1.2
1531	5.46	9.71	1.39	7.58	3451	-111.0	14.6	200	1.8
1534	5.46	11.65	1.35	7.60	3442	-110.6	14.7	200	2.4

Notes: sample time: 1534

Total Gallons Purged: 2.4 L

Presence of Sheen in groundwater sample (yes/no):

Sample ID and Analysis: GW-12142022-MW-4

Duplicate Sample: no

Equipment Blank: no

Field Blank: no

ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

Date 12.14.22 Page 1 Of 1

PROJECT ID:
REPORT TO COMPANY: Geosyntec
PROJECT MANAGER: Luke Smith
ADDRESS: 101 N 1st
Sunnyside, WA
PHONE: 206-496-1452 P.O. #:
E-MAIL: Luke.Smith@geosyntec.com
INVOICE TO COMPANY: Geosyntec
ATTENTION: Sam Scheier
ADDRESS: 520 Pike St., Suite 2600
Seattle, WA 98101

ANALYSIS REQUESTED

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	BTEX by EPA 8260	MTBE by EPA 8021	MTBE by EPA 8260	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	Metals-MTCA-5	RCRA-8	Pri Pol	TAL	Metals Other (Specify) As, Co, Mo, Fe, Mn	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs	OTHER (Specify) Nitrate by EPA 300.0	Sulfate by EPA 300.0	Dissolved organic carbon EPA 9060A					NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. GW-12142022-MW-1	12.14.22	1147	W																					X						X	X	X					4	
2. GW-12142022-MW-2	12.14.22	1308	W																					X						X	X	X					4	
3. GW-12142022-DUP-1	12.14.22	1313	W																					X						X	X	X					4	
4. GW-12142022-MW-3	12.14.22	1435	W																					X						X	X	X					4	
5. GW-12142022-MW-4	12.14.22	1534	W																					X						X	X	X					4	
6.																																						
7.																																						
8.																																						
9.																																						
10.																																						

12.14.22

SPECIAL INSTRUCTIONS total and dissolved metals, dissolved metals and dissolved organic carbon were field filtered w/ 0.45-µm filter.

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Sam Scheier Geosyntec 12.15.22 1349
   Received By: ALS 12/15/22 1349
2. Relinquished By: _____
   Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: [10] Standard [5] [3] [2] [1] [SAME DAY]

Fuels & Hydrocarbon Analysis: [5] Standard [3] [1] [SAME DAY]

OTHER:
Specify: _____

*Turnaround request less than standard may incur Rush Charges

WELL GAUGING DATA

Project # 230118-FD1 Date 01/18/23 Client GeoSyntec

Site Sunnyside, WA - 101 N 1st St

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or ~~TOC~~	Notes
MW-1	1010	2	—	—	—	—	4.06	14.79		
MW-2	1012	2	—	—	—	—	4.81	14.95		
MW-3	1015	2	—	—	—	—	4.86	14.91		
MW-4	1018	2	—	—	—	—	5.09	14.93		

LOW FLOW WELL MONITORING DATA SHEET

Project #: 230118-FDL	Client: GeoSyntec
Sampler: FD	Gauging Date: 01/18/23
Well I.D.: MW-1	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.79	Depth to Water (ft.): 4.06
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ___

Start Purge Time: 1235 Flow Rate: 200mL/min Pump Depth: 10ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1238	6.37	7.44	0.454	8	7.06	-45.2	600	4.09
1241	6.60	7.48	0.454	6	7.04	-44.6	1200	4.12
1244	6.51	7.51	0.454	3	6.82	-36.6	1800	4.12
1247	6.47	7.52	0.454	3	6.80	-33.7	2400	4.14
1250	6.44	7.51	0.454	3	6.76	-32.1	3000	4.14

Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 1255 Sampling Date: 01/18/23

Sample I.D.: GW-011823-MW-1 Laboratory: ALS

Analyzed for: TPH-G BTEX MTBE TPH-D (Other) See CoC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 230118-FD1	Client: GeoSyntec
Sampler: FD	Gauging Date: 01/18/23
Well I.D.: MW-2	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 14.95	Depth to Water (ft.): 4.81
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: ~~Dedicated Tubing~~ New Tubing Other ____

Start Purge Time: 1152 Flow Rate: 200mL/min Pump Depth: 10 ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1155	5.79	5.93	0.897	45	2.64	-69.9	600	4.86
1158	5.92	5.93	0.899	38	1.57	-74.7	1200	4.86
1201	6.01	5.93	0.910	32	1.05	-79.8	1800	4.89
1204	6.04	5.93	0.911	30	1.03	-82.1	2400	4.89
1207	6.08	5.93	0.912	30	1.00	-82.8	3000	4.90

Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 1212 Sampling Date: 01/18/23

Sample I.D.: GW-011823-MW-2 Laboratory: ALS

Analyzed for: TPH-G BTEX MTBE TPH-D (Other) See COC

Equipment Blank I.D.: @ Time Duplicate I.D.: GW-011823-DUP-1

LOW FLOW WELL MONITORING DATA SHEET

Project #: 230118-FD1	Client: GeoSyntec
Sampler: FD	Gauging Date: 01/18/23
Well I.D.: MW-3	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 14.91	Depth to Water (ft.): 4.86
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ____

Start Purge Time: 1117 Flow Rate: 200mL/min Pump Depth: 10 Ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1120	5.63	6.31	0.793	23	2.99	-13.9	600	4.91
1123	5.93	6.29	0.796	14	1.32	-27.2	1200	4.93
1126	6.11	6.29	0.800	11	1.04	-32.2	1800	4.93
1129	6.17	6.28	0.803	11	1.00	-33.8	2400	4.95
1132	6.21	6.28	0.805	11	0.98	-34.9	3000	4.95

Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 1135 Sampling Date: 01/18/23

Sample I.D.: GW-011823-MW-3 Laboratory: ALS

Analyzed for: TPH-G BTEX MTBE TPH-D (Other: See CoC)

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 230118-FD1	Client: GeoSyntec
Sampler: FD	Gauging Date: 01/18/23
Well I.D.: MW-4	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.93	Depth to Water (ft.): 5.09
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 1044 Flow Rate: 200mL/min Pump Depth: 10 ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1047	7.18	7.79	0.861	77	1.45	332.4	600	5.11
1050	7.23	7.79	0.860	29	1.17	327.4	1200	5.24
1053	7.43	7.79	0.861	3	0.99	322.2	1800	5.27
1056	7.37	7.79	0.863	3	0.96	321.6	2400	5.27
1059	7.41	7.79	0.861	3	0.93	319.8	3000	5.27

Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 1103 Sampling Date: 01/18/23

Sample I.D.: GW-011823-MW-4 Laboratory: ALS

Analyzed for: TPH-G BTEX MTBE TPH-D (Other:) See CoC

Equipment Blank I.D.: @ Time Duplicate I.D.:

Chain of Custody

Laboratory 8620 Holly Drive, Everett, WA 98208 USA | +1 425 356 2600

(If viewing electronically, this is a drop down list - click on the address above - a drop down arrow will appear to the right of the address)

Work Order No.:

Project Manager:	Luke Smith			**Bill to:**	Luke Smith		
Client Name:	Geosyntec			**Company:**	Geosyntec		
Address:	520 Pike St, Suite 2600			**Address:**	520 Pike St, Suite 2600		
City, State ZIP:	Seattle, WA 98101			**City, State ZIP:**	Seattle, WA 98101		
Email:	Luke.Smith@Geosyntec.com	**Phone:**	(206) 496-1452	**Email:**	luke.smith@geosyntec.com	**PO#**	
Project Site:	101 N 1st St, Sunnyside	**State:**	WA				
Project Name:	Sunnyside						
Project Number:							
P.O. Number:							
Sampler's Name:	Fonda DeSantos						

SAMPLE RECEIPT

Temperature (°C):		Temp Blank Present			
Received Intact:	Yes	No	N/A	Wet Ice / Blue Ice	
Cooler Custody Seals:	Yes	No	N/A	Total Containers:	
Sample Custody Seals:	Yes	No	N/A		

REQUESTED ANALYSIS

TAT

- [x] Routine 10 Day
- [ ] 24 hours * 100%
- [ ] 48 hours* 80%
- [ ] 3 Day* 60%
- [ ] 5 day* 50%

* Please call for availability

Due Date:

Sample Identification	Matrix	Date Sampled	Time Sampled	Lab ID	No. of Containers		Total As, Co, Mo, Fe, Mn (EPA 200.8)	Dissolved As, Co, Mo,Fe, Mn (Field Filtered) (EPA 200.8)	Nitrate (EPA 300.0)	Sulfate (EPA 300.0)	Dissolved Organic Carbon (Field Filtered)(EPA 9060A)	Comments
GW-011823-MW-1	GW	01/18/23	1255		4		X	X	X	X	X	
GW-011823-MW-2			1212		4		X	X	X	X	X	
GW-011823-MW-3			1135		4		X	X	X	X	X	
GW-011823-MW-4			1103		4		X	X	X	X	X	
GW-011823-DUP-1			1200		4		X	X	X	X	X	

Dissolved	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Tl, V, Zn, Zr
Total	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Tl, V, Zn, Zr

Additional Methods Available Upon Request

RELINQUISHED BY			RECEIVED BY		
Print Name	Signature	Date/Time	Print Name	Signature	Date/Time
Fonda DeSantos	Fonda DeSantos	01/18/23@ 1710			

Revised: 1/17/2023

WELLHEAD INSPECTION FORM

Client: GeoSyntec Site: Sunnyside, WA - 10th 1st St Date: 01/18/23

Job # : 230118-FD1 Technician: FD Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Check indicates deficiency: Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty)	Tabs stripped (list qty)	Tabs broken (list qty)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard	Below Grade	Other (explain in notes)	Well Not Inspected (explain in notes)	Notes (list if cap or lick replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)
MW-1	X														
MW-2	X														
MW-3	X														
MW-4	X														

NOTES:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME Sunnyside, WA - 101N 1st St				PROJECT NUMBER 230118-FD1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI 556	02C0394	01/18/23 @ 1020	Ph 4 7 10	4.01 6.98 10.02	✓	18°	FD
			ORP	237.3	✓	19°	FD
			Cond 3900	3902	✓	18°	FD
			D.O. 100%	99.6%	Yes	18°	FP

PURGE DRUM INVENTORY LOG

CLIENT Geosyntec

SITE ADDRESS 101 N 1st St, Sunnyside, WA

STATUS OF DRUM(S) UPON ARRIVAL							
Number of drum(s) empty:	0	0					
Number of drum(s) 1/4 full:	0	0					
Number of drum(s) 1/2 full:	0	0					
Number of drum(s) 3/4 full:	0	0					
Number of drum(s) full:	0	0					
Total drum(s) on site:	0	0					
STATUS OF DRUM(S) UPON DEPARTURE							
Number of drum(s) empty:	0	0					
Number of drum(s) 1/4 full:	1	1					
Number of drum(s) 1/2 full:	0	0					
Number of drum(s) 3/4 full:	0	0					
Number of drum(s) full:	0	0					
Total drum(s) on site:	1	1					
LOCATION OF DRUM(S)							
Is/Are drum(s) at wellhead(s)?	Yes	Yes					
Describe location if drum(s) is/are located elsewhere:	At MW-2 at Post						
Label drum(s) properly:	Yes	Yes					
FINAL STATUS							
Number of new drum(s) left on site this event:	1	1					
Date of inspection:	6/8/22	01/18/23					
Logged by BTS Field Technician:	CM	FD					
Office reviewed by:							

WELL GAUGING DATA

Project # 230215-cm1 Date 2/15/23 Client Geosyntec

Site 101 N 1st St Sunnyside, WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or (TOC)	Notes
MW-1	0951	2	—	—	—	—	3.01	14.97		
MW-2	0953	2	—	—	—	—	5.05	15.07		
MW-3	0955	2	—	—	—	—	5.04	15.03		
MW-4	0957	2	—	—	—	—	5.73	15.07	↓	

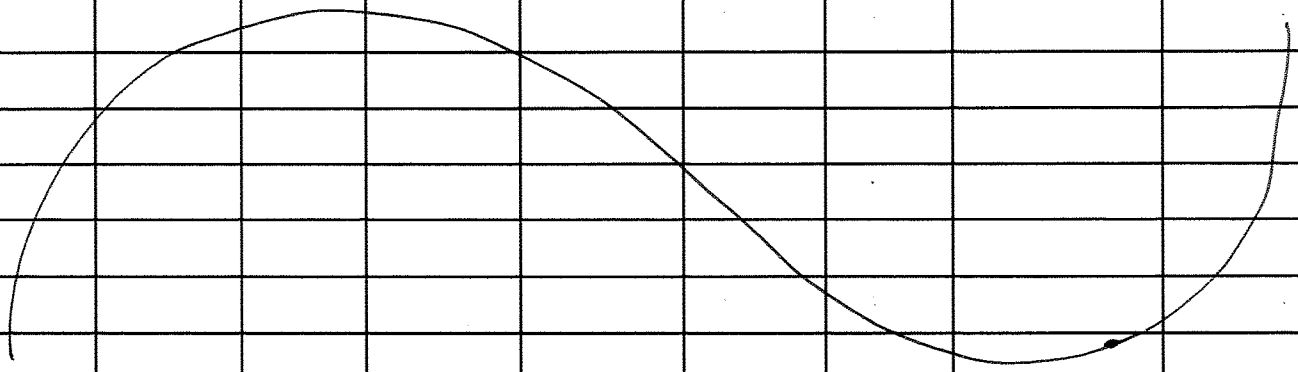
LOW FLOW WELL MONITORING DATA SHEET

Project #: 230215-cm1	Client: Geosyntec
Sampler: CM	Gauging Date: 2/15/23
Well I.D.: MW-1	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 14.97	Depth to Water (ft.): 3.01
Depth to Free Product: —	Thickness of Free Product (feet): -
Referenced to: (PVC) Grade	Flow Cell Type: YSI-556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ____

Start Purge Time: 1000 Flow Rate: 200 mL/min Pump Depth: 9 ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1003	10.58	6.77	2.194	56	0.45	58.8	600	3.25
1006	10.58	6.87	2.213	59	0.43	62.6	1200	3.25
1009	10.69	6.92	2.229	58	0.43	61.9	1800	3.25
1012	10.74	6.93	2.233	58	0.42	59.7	2400	3.25
1015	10.70	6.95	2.235	59	0.42	61.4	3000	3.25



Did well dewater? Yes (No) Amount actually evacuated: 3000 mL

Sampling Time: 1018 Sampling Date: 2/15/23

Sample I.D.: GW-021523-MW-1 Laboratory: ALS

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.: GW-021523-DUP-1 @ Dup

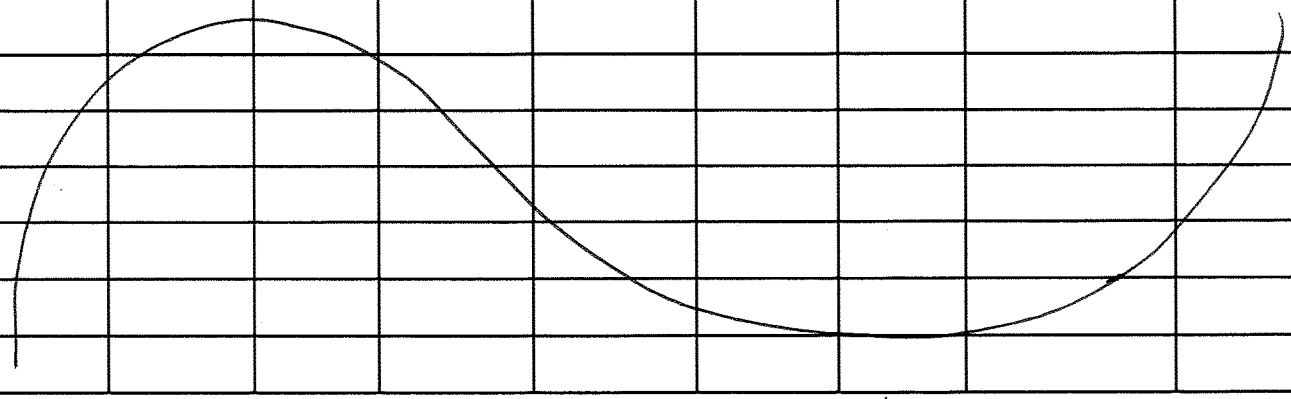
LOW FLOW WELL MONITORING DATA SHEET

Project #: 230215-cm1	Client: Geosyntec
Sampler: Cm	Gauging Date: 2/15/23
Well I.D.: MW-2	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 15.07	Depth to Water (ft.): 5.05
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI-556

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ Bladder Pump
Sampling Method: ~~Dedicated Tubing~~ New Tubing Other ____

Start Purge Time: 1033 Flow Rate: 200 mL/min Pump Depth: 10 ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1036	9.97	6.76	4.069	56	0.32	94.1	600	5.80
1039	10.38	6.98	4.166	43	0.20	73.0	1200	5.80
1042	10.33	7.00	4.197	39	0.17	76.3	1800	5.80
1045	10.40	7.00	4.210	38	0.16	75.5	2400	5.80
1048	10.41	7.00	4.215	37	0.16	72.9	3000	5.80



Did well dewater? Yes (No)	Amount actually evacuated: 3000 mL
Sampling Time: 1051	Sampling Date: 2/15/23
Sample I.D.: GW-021523-mw-2	Laboratory: ALS
Analyzed for: TPH-G BTEX MTBE TPH-D	(Other:) See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 230215-cm1	Client: Geosyntec
Sampler: cm	Gauging Date: 2/15/23
Well I.D.: MW-3	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 15.03	Depth to Water (ft.): 5.04
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI-556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ____

Start Purge Time: 1129 Flow Rate: 200 mL/min Pump Depth: 10 ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1132	12.32	7.30	3.808	22	0.17	-45.0	600	5.66
1135	12.40	7.30	3.800	21	0.15	-41.2	1200	5.66
1138	12.50	7.31	3.798	21	0.13	-36.8	1800	5.66
1141	12.47	7.31	3.802	20	0.13	-31.8	2400	5.66
1144	12.48	7.31	3.805	20	0.13	-31.4	3000	5.66

Did well dewater? Yes (No) Amount actually evacuated: 3000 mL

Sampling Time: 1147 Sampling Date: 2/15/23

Sample I.D.: GW-021523-mw-3 Laboratory: ALS

Analyzed for: TPH-G BTEX MTBE TPH-D (Other:) See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

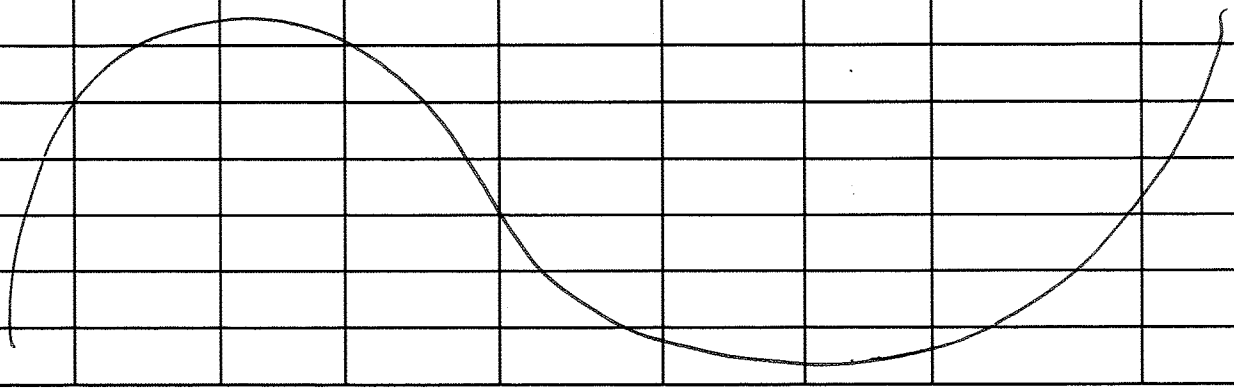
LOW FLOW WELL MONITORING DATA SHEET

Project #: 230215-cm1	Client: Geosyntec
Sampler: cm	Gauging Date: 2/15/23
Well I.D.: MW-4	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 15.07	Depth to Water (ft.): 5.73
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI-556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ____

Start Purge Time: 1101 Flow Rate: 200 mL/min Pump Depth: 10.25 ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1104	11.29	7.19	4.227	22	0.16	-11.8	600	5.81
1107	12.39	7.21	4.342	20	0.14	-22.0	1200	5.81
1110	12.46	7.20	4.361	18	0.13	-23.6	1800	5.81
1113	12.48	7.20	4.369	17	0.13	-25.0	2400	5.81
1116	12.42	7.20	4.373	17	0.12	-24.6	3000	5.81



Did well dewater? Yes (No)	Amount actually evacuated: 3000 mL
Sampling Time: 1119	Sampling Date: 2/15/23
Sample I.D.: GW-021523-MW-4	Laboratory: ALS
Analyzed for: TPH-G BTEX MTBE TPH-D	(Other:) See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

Chain of Custody

Laboratory 8620 Holly Drive, Everett, WA 98208 USA | +1 425 356 2600

(If viewing electronically, this is a drop down list - click on the address above - a drop down arrow will appear to the right of the address)

Work Order No.: EV2302009 9

Project Manager:	Luke Smith			**Bill to:**	Luke Smith		
Client Name:	Geosyntec			**Company:**	Geosyntec		
Address:	520 Pike St, Suite 2600			**Address:**	520 Pike St, Suite 2600		
City, State ZIP:	Seattle, WA 98101			**City, State ZIP:**	Seattle, WA 98101		
Email:	Luke.Smith@Geosyntec.com	**Phone:**	(206) 496-1452	**Email:**	luke.smith@geosyntec.com	**PO#**	
Project Site:	101 N 1st St, Sunnyside	**State:**	WA				
Project Name:	Sunnyside						
Project Number:							
P.O. Number:							
Sampler's Name:	Christina Mroz						

SAMPLE RECEIPT

Temperature (°C):		Temp Blank Present			
Received Intact:	Yes	No	N/A	Wet Ice / Blue Ice	
Cooler Custody Seals:	Yes	No	N/A	Total Containers:	
Sample Custody Seals:	Yes	No	N/A		

REQUESTED ANALYSIS

Sample Identification	Matrix	Date Sampled	Time Sampled	Lab ID	No. of Containers		Total As, Co, Mo, Fe, Mn (EPA 200.8)	Dissolved As, Co, Mo,Fe, Mn (Field Filtered) (EPA 200.8)	Nitrate (EPA 300.0)	Sulfate (EPA 300.0)	Dissolved Organic Carbon (Field Filtered)(EPA 9060A)	Comments
GW-021523-mw-1	GW	2/15/23	1018	1	4		X	X	X	X	X	
GW-021523-mw-2			1051	2	4		X	X	X	X	X	
GW-021523-mw-3			1147	3	4		X	X	X	X	X	
GW-021523-mw-4			1119	4	4		X	X	X	X	X	
GW-021523-Dup-1			1200	5	4		X	X	X	X	X	

TAT

- [X] Routine 10 Day
- [ ] 24 hours * 100%
- [ ] 48 hours* 80%
- [ ] 3 Day* 60%
- [ ] 5 day* 50%

* Please call for availability

Due Date:

Dissolved	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Tl, V, Zn, Zr
Total	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Tl, V, Zn, Zr

Additional Methods Available Upon Request

RELINQUISHED BY			RECEIVED BY		
Print Name	Signature	Date/Time	Print Name	Signature	Date/Time
Christina Mroz		2/15/23 1524	Rob Green		2/15/23 3:24pm

Revised: 1/17/2023

WELLHEAD INSPECTION FORM

Client: Geosyntec Site: 101 N 1st St Sunnyside, WA Date: 2/15/23

Job #: 230215-cm1 Technician: cm Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Check indicates deficiency: Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty)	Tabs stripped (list qty)	Tabs broken (list qty)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard	Below Grade	Other (explain in notes)	Well Not Inspected (explain in notes)	Notes (list if cap or lick replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)
MW-1				X											
MW-2				X											
MW-3				X											
MW-4				X											

NOTES:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME 101 N 1st St Sunnyside, WA				PROJECT NUMBER 230215-cm1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI-556	02G0203	2/15/23 0630	pH 4 7 10	3.96 7.02 9.91	✓	20.0	CM
			orp 237.5 DO 100 cond 3900	237.8 99.1 3909	✓	19.8	CM

PURGE DRUM INVENTORY LOG

CLIENT Geosyntec

SITE ADDRESS 101 N 1st St, Sunnyside, WA

STATUS OF DRUM(S) UPON ARRIVAL							
Number of drum(s) empty:	0	0	0				
Number of drum(s) 1/4 full:	0	0	1				
Number of drum(s) 1/2 full:	0	0	0				
Number of drum(s) 3/4 full:	0	0	0				
Number of drum(s) full:	0	0	0				
Total drum(s) on site:	0	0	1				
STATUS OF DRUM(S) UPON DEPARTURE							
Number of drum(s) empty:	0	0	0				
Number of drum(s) 1/4 full:	1	1	1				
Number of drum(s) 1/2 full:	0	0	0				
Number of drum(s) 3/4 full:	0	0	0				
Number of drum(s) full:	0	0	0				
Total drum(s) on site:	1	1	1				
LOCATION OF DRUM(S)							
Is/Are drum(s) at wellhead(s)?	yes	yes	yes				
Describe location if drum(s) is/are located elsewhere:	~~At MW-2 at Post~~ Next to MW-3						
Label drum(s) properly:	yes	yes	yes				
FINAL STATUS							
Number of new drum(s) left on site this event:	1	1	0				
Date of inspection:	6/8/22	01/18/23	2/8/23				
Logged by BTS Field Technician:	CM	FD	CM				
Office reviewed by:							

WELL GAUGING DATA

Project # 230517-001 Date 5/17/23 Client Geosyntec

Site 101 N 1st St, Sunnyside, WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: ~~TOB~~ or TOC	Notes
MW-1	0739	2	—	—	—	—	3.23	14.94		
MW-2	0744	2	—	—	—	—	5.17	15.00		
MW-3	0748	2	—	—	—	—	5.54	14.99		
MW-4	0746	2	—	—	—	—	5.92	15.02		
MW-5	0741	2	—	—	—	—	4.71	14.61	↓	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 230517-001	Client: Geosyntec
Sampler: DO	Gauging Date: 5/17/23
Well I.D.: MW-1	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.94	Depth to Water (ft.): 3.23
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI-556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0758 Flow Rate: 200mL/min Pump Depth: 9ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0801	15.31	6.12	2.217	62	2.89	195.4	600	3.23
0804	15.09	6.28	2.255	59	2.81	192.6	1200	3.29
0807	14.93	6.47	2.386	55	2.83	189.3	1800	3.31
0810	15.01	6.46	2.394	54	2.78	183.6	2400	3.32
0813	15.00	6.49	2.390	54	2.78	182.4	3000	3.36

Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 0816 Sampling Date: 5/17/23

Sample I.D.: GW-051723-MW-1 Laboratory: ALS

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

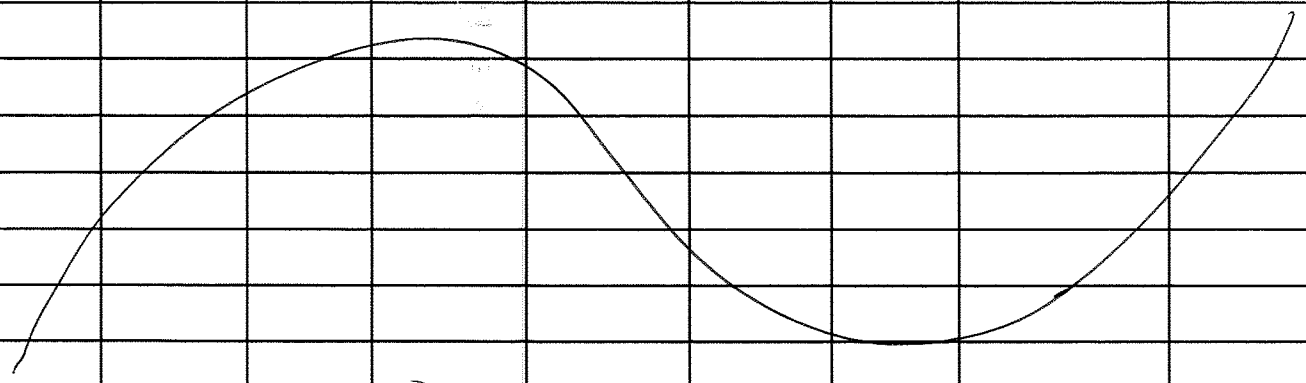
LOW FLOW WELL MONITORING DATA SHEET

Project #: 230517-001	Client: Geosyntec
Sampler: DO	Gauging Date: 5/17/23
Well I.D.: MW-2	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 15.00	Depth to Water (ft.): 5.17
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: 451-556

Purge Method: 2" Grundfos Pump | (Peristaltic Pump) | Bladder Pump
Sampling Method: (Dedicated Tubing) | New Tubing | Other ___

Start Purge Time: 0917 Flow Rate: 200 mL/min Pump Depth: 10ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0920	14.61	6.80	4.626	45	3.02	204.9	600	5.26
0923	14.84	6.70	4.633	35	0.86	212.0	1200	5.34
0926	14.99	6.82	4.623	34	0.33	213.2	1800	5.37
0929	14.98	6.76	4.620	33	0.31	212.1	2400	5.45
0932	14.96	6.75	4.619	32	0.30	210.9	3000	5.59



Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 0935 Sampling Date: 5/17/23

Sample I.D.: GW-051723-MW-2 Laboratory: ALS

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 230517-001	Client: ~~SHDS~~ Geosynter
Sampler: DO	Gauging Date: 5/17/23
Well I.D.: MW-3	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.99	Depth to Water (ft.): 5.84
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI-556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 1015 Flow Rate: 200 mL/min Pump Depth: 10.5ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1018	16.45	6.99	3.641	23	1.22	159.3	600	5.67
1021	17.06	6.86	3.668	21	0.29	174.6	1200	5.74
1024	17.54	6.82	3.698	20	0.22	168.4	1800	5.81
1027	17.59	6.82	3.698	20	0.22	165.2	2400	5.89
1030	17.60	6.82	3.699	19	0.22	163.5	3000	5.96

Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 1033 Sampling Date: 5/17/23

Sample I.D.: GW-051723-MW-3 Laboratory: ~~5/17/23~~ 5/18/23 ALS

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 230517-D01	Client: Geosyntec
Sampler: DO	Gauging Date: 5/17/23
Well I.D.: MW-4	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 15.02	Depth to Water (ft.): 5.92
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: 451-556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ____

Start Purge Time: 0952 Flow Rate: 200mL/min Pump Depth: 10.5ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0955	16.01	6.86	5.244	25	1.60	224.9	600	6.04
0958	15.95	6.89	5.164	18	0.43	207.8	1200	6.13
~~0~~ 1001	15.73	7.00	5.050	17	0.21	193.0	1800	6.18
1004	15.69	7.05	5.024	17	0.23	186.5	2400	6.25
1007	15.68	7.07	5.22	16	0.20	185.0	3000	6.28

Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 1010 Sampling Date: 5/17/23

Sample I.D.: GW-051723-MW-4 Laboratory: ALS

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 230517-001	Client: Geosyntec
Sampler: DO	Gauging Date: 5/17/23
Well I.D.: MW-5	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 14.61	Depth to Water (ft.): 4.71
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI-556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ____

Start Purge Time: 0842 Flow Rate: 200mL/min Pump Depth: 10ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0845	14.11	6.67	3.278	27	1.29	201.2	600	4.75
0848	15.54	6.56	3.407	30	0.56	197.2	1200	4.79
0851	15.41	6.57	3.401	31	0.40	194.4	1800	4.82
0854	15.36	6.55	3.391	30	0.41	201.3	2400	4.87
0857	15.32	6.52	3.390	30	0.39	206.4	3000	4.89

Did well dewater? Yes (No) Amount actually evacuated: 3000

Sampling Time: 0900 Sampling Date: 5/17/23

Sample I.D.: GW-051723-MW-5 Laboratory: ALS

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.: GW-051723-DUP-1

Chain of Custody

Laboratory 8620 Holly Drive, Everett, WA 98208 USA | +1 425 356 2600

(If viewing electronically, this is a drop down list - click on the address above - a drop down arrow will appear to the right of the address)

Work Order No.: EV2305O130

Project Manager:	Luke Smith			**Bill to:**	Luke Smith		
Client Name:	Geosyntec			**Company:**	Geosyntec		
Address:	520 Pike St, Suite 2600			**Address:**	520 Pike St, Suite 2600		
City, State ZIP:	Seattle, WA 98101			**City, State ZIP:**	Seattle, WA 98101		
Email:	Luke.Smith@Geosyntec.com	**Phone:**	(206) 496-1452	**Email:**	luke.smith@geosyntec.com	**PO#**	
Project Site:	101 N 1st St, Sunnyside	**State:**	WA				
Project Name:	Sunnyside						
Project Number:							
P.O. Number:							
Sampler's Name:	Diana Ojeda						

SAMPLE RECEIPT

Temperature (°C):		Temp Blank Present			
Received Intact:	Yes	No	N/A	Wet Ice / Blue Ice	
Cooler Custody Seals:	Yes	No	N/A	Total Containers:	
Sample Custody Seals:	Yes	No	N/A		

REQUESTED ANALYSIS

Sample Identification	Matrix	Date Sampled	Time Sampled	Lab ID	No. of Containers	Total As, Co, Mo, Fe, Mn (EPA 200.8)	Dissolved As, Co, Mo,Fe, Mn (Field Filtered) (EPA 200.8)	Nitrate (EPA 300.0)	Sulfate (EPA 300.0)	Dissolved Organic Carbon (Field Filtered)(EPA 9060A)
GW-051723-MW-1	GW	5/17/23	0816	1	4	X	X	X	X	X
GW-051723-MW-2			0935	2	4	X	X	X	X	X
GW-051723-MW-3			1033	3	4	X	X	X	X	X
GW-051723-MW-4			1010	4	4	X	X	X	X	X
GW-051723-MW-5			0900	5	4	X	X	X	X	X
GW-051723-DUP-1			1200	6	4	X	X	X	X	X

TAT

- [X] Routine 10 Day
- [ ] 24 hours * 100%
- [ ] 48 hours* 80%
- [ ] 3 Day* 60%
- [ ] 5 day* 50%

* Please call for availability

Due Date:

Comments

Dissolved	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Tl, V, Zn, Zr
Total	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Tl, V, Zn, Zr

Additional Methods Available Upon Request

RELINQUISHED BY			RECEIVED BY		
Print Name	Signature	Date/Time	Print Name	Signature	Date/Time
Diana Ojeda	Diana Ojeda	5/17/23 1430	Rob Grera		5/17/23 14:34

Revised: 2/8/2023

WELLHEAD INSPECTION FORM

Client: Geosyntec Site: 101 N 1st St, Sunnyside, WA Date: 5/17/23

Job #: 230517-D01 Technician: DO Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Check indicates deficiency: Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty)	Tabs stripped (list qty)	Tabs broken (list qty)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard	Below Grade	Other (explain in notes)	Well Not Inspected (explain in notes)	Notes (list if cap or lick replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)
MW-1	X			X											
MW-2	X			X											
MW-3	X			X											
MW-4	X			X											
MW-5	X			X											

NOTES:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME 101 N 1st St, Sunnyside, WA				PROJECT NUMBER 230517-D01			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI-556	02G0203	5/17/23@ 0702	pH 4 7 10	4.08 7.03 10.01	✓	19.3	DO
			Cond 3900 ORP 237.5 DO 100	3892 236.1 99.5	✓	19.4	DO

PURGE DRUM INVENTORY LOG

CLIENT Geosyntec

SITE ADDRESS 101 N 1st St, Sunnyside, WA

STATUS OF DRUM(S) UPON ARRIVAL							
Number of drum(s) empty:	0	0	0	0	0		
Number of drum(s) 1/4 full:	0	0	1	1	0		
Number of drum(s) 1/2 full:	0	0	0	0	1		
Number of drum(s) 3/4 full:	0	0	0	0	0		
Number of drum(s) full:	0	0	0	0	0		
Total drum(s) on site:	0	0	1	1	1		
STATUS OF DRUM(S) UPON DEPARTURE							
Number of drum(s) empty:	0	0	0	0	0		
Number of drum(s) 1/4 full:	1	1	1	0	0		
Number of drum(s) 1/2 full:	0	0	0	1	1		
Number of drum(s) 3/4 full:	0	0	0	0	0		
Number of drum(s) full:	0	0	0	0	0		
Total drum(s) on site:	1	1	1	1	1		
LOCATION OF DRUM(S)							
Is/Are drum(s) at wellhead(s)?	yes	yes	yes	yes	yes		
Describe location if drum(s) is/are located elsewhere:	~~At MW-2 at Post~~ Next to MW-3						
Label drum(s) properly:	yes	yes	yes	yes	yes		
FINAL STATUS							
Number of new drum(s) left on site this event:	1	1	0	0	0		
Date of inspection:	6/8/22	01/18/23	2/15/23	05/10/23	5/17/23		
Logged by BTS Field Technician:	CM	FD	CM	MC			
Office reviewed by:							

Attachment 3

December 29, 2022

Mr. Luke Smith
Geosyntec Consultants
520 Pike St, Suite 2600
Seattle, WA 98101

Dear Mr. Smith,

On December 15th, 5 samples were received by our laboratory and assigned our laboratory project number EV22120104. The project was identified as your PNR0696C. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Glen Perry
Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE:	12/29/2022
		ALS JOB#:	EV22120104
		ALS SAMPLE#:	EV22120104-01
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	12/15/2022
CLIENT PROJECT:	PNR0696C	COLLECTION DATE:	12/14/2022 11:47:00 AM
CLIENT SAMPLE ID	GW-12142022-MW-1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	**81 H**	0.15	1	MG/L	12/16/2022	RAL
Sulfate	EPA-300.0	**240**	0.26	1	MG/L	12/16/2022	RAL
Arsenic	EPA-200.8	**10**	1.0	1	UG/L	12/19/2022	EBS
Cobalt	EPA-200.8	U	1.0	1	UG/L	12/19/2022	EBS
Iron	EPA-200.8	**570**	50	1	UG/L	12/19/2022	EBS
Manganese	EPA-200.8	**1200**	2.0	1	UG/L	12/19/2022	EBS
Molybdenum	EPA-200.8	**25**	1.0	1	UG/L	12/19/2022	EBS
Arsenic (Dissolved)	EPA-200.8	**9.4**	1.0	1	UG/L	12/19/2022	EBS
Cobalt (Dissolved)	EPA-200.8	U	1.0	1	UG/L	12/19/2022	EBS
Iron (Dissolved)	EPA-200.8	U	50	1	UG/L	12/19/2022	EBS
Manganese (Dissolved)	EPA-200.8	**140**	2.0	1	UG/L	12/19/2022	EBS
Molybdenum (Dissolved)	EPA-200.8	**24**	1.0	1	UG/L	12/19/2022	EBS
Dissolved Organic Carbon (DOC)	EPA-415.1	**3.1**	0.25	1	MG/L	12/22/2022	CAS

U - Analyte analyzed for but not detected at level above reporting limit.
H - Sample analyzed outside of hold time.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE: ALS JOB#: ALS SAMPLE#:	12/29/2022 EV22120104 EV22120104-02
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	12/15/2022
CLIENT PROJECT:	PNR0696C	COLLECTION DATE:	12/14/2022 1:08:00 PM
CLIENT SAMPLE ID	GW-12142022-MW-2	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	U, H	0.15	1	MG/L	12/16/2022	RAL
Sulfate	EPA-300.0	**250**	0.26	1	MG/L	12/16/2022	RAL
Arsenic	EPA-200.8	**47**	5.0	5	UG/L	12/19/2022	EBS
Cobalt	EPA-200.8	**78**	5.0	5	UG/L	12/19/2022	EBS
Iron	EPA-200.8	**13000**	250	5	UG/L	12/19/2022	EBS
Manganese	EPA-200.8	**9200**	10	5	UG/L	12/19/2022	EBS
Molybdenum	EPA-200.8	**22**	5.0	5	UG/L	12/19/2022	EBS
Arsenic (Dissolved)	EPA-200.8	**37**	5.0	5	UG/L	12/19/2022	EBS
Cobalt (Dissolved)	EPA-200.8	**74**	5.0	5	UG/L	12/19/2022	EBS
Iron (Dissolved)	EPA-200.8	**12000**	250	5	UG/L	12/19/2022	EBS
Manganese (Dissolved)	EPA-200.8	**8700**	10	5	UG/L	12/19/2022	EBS
Molybdenum (Dissolved)	EPA-200.8	**19**	5.0	5	UG/L	12/19/2022	EBS
Dissolved Organic Carbon (DOC)	EPA-415.1	**950**	0.25	1	MG/L	12/22/2022	CAS

H - Sample analyzed outside of hold time.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE: ALS JOB#: ALS SAMPLE#:	12/29/2022 EV22120104 EV22120104-03
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	12/15/2022
CLIENT PROJECT:	PNR0696C	COLLECTION DATE:	12/14/2022 1:13:00 PM
CLIENT SAMPLE ID	GW-12142022-DUP-1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	U, H	0.15	1	MG/L	12/16/2022	RAL
Sulfate	EPA-300.0	**260**	0.26	1	MG/L	12/16/2022	RAL
Arsenic	EPA-200.8	**49**	5.0	5	UG/L	12/19/2022	EBS
Cobalt	EPA-200.8	**78**	5.0	5	UG/L	12/19/2022	EBS
Iron	EPA-200.8	**14000**	250	5	UG/L	12/19/2022	EBS
Manganese	EPA-200.8	**9100**	10	5	UG/L	12/19/2022	EBS
Molybdenum	EPA-200.8	**23**	5.0	5	UG/L	12/19/2022	EBS
Arsenic (Dissolved)	EPA-200.8	**44**	5.0	5	UG/L	12/19/2022	EBS
Cobalt (Dissolved)	EPA-200.8	**73**	5.0	5	UG/L	12/19/2022	EBS
Iron (Dissolved)	EPA-200.8	**13000**	250	5	UG/L	12/19/2022	EBS
Manganese (Dissolved)	EPA-200.8	**8400**	10	5	UG/L	12/19/2022	EBS
Molybdenum (Dissolved)	EPA-200.8	**21**	5.0	5	UG/L	12/19/2022	EBS
Dissolved Organic Carbon (DOC)	EPA-415.1	**960**	0.25	1	MG/L	12/22/2022	CAS

H - Sample analyzed outside of hold time.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE: ALS JOB#: ALS SAMPLE#:	12/29/2022 EV22120104 EV22120104-04
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	12/15/2022
CLIENT PROJECT:	PNR0696C	COLLECTION DATE:	12/14/2022 2:35:00 PM
CLIENT SAMPLE ID	GW-12142022-MW-3	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	U, H	0.15	1	MG/L	12/16/2022	RAL
Sulfate	EPA-300.0	**36**	0.26	1	MG/L	12/16/2022	RAL
Arsenic	EPA-200.8	**51**	1.0	1	UG/L	12/19/2022	EBS
Cobalt	EPA-200.8	**100**	1.0	1	UG/L	12/19/2022	EBS
Iron	EPA-200.8	**52000**	50	1	UG/L	12/19/2022	EBS
Manganese	EPA-200.8	**13000**	10	5	UG/L	12/19/2022	EBS
Molybdenum	EPA-200.8	**7.5**	1.0	1	UG/L	12/19/2022	EBS
Arsenic (Dissolved)	EPA-200.8	**41**	1.0	1	UG/L	12/19/2022	EBS
Cobalt (Dissolved)	EPA-200.8	**100**	1.0	1	UG/L	12/19/2022	EBS
Iron (Dissolved)	EPA-200.8	**52000**	50	1	UG/L	12/19/2022	EBS
Manganese (Dissolved)	EPA-200.8	**13000**	10	5	UG/L	12/19/2022	EBS
Molybdenum (Dissolved)	EPA-200.8	**3.3**	1.0	1	UG/L	12/19/2022	EBS
Dissolved Organic Carbon (DOC)	EPA-415.1	**950**	0.25	1	MG/L	12/22/2022	CAS

H - Sample analyzed outside of hold time.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE: ALS JOB#: ALS SAMPLE#:	12/29/2022 EV22120104 EV22120104-05
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	12/15/2022
CLIENT PROJECT:	PNR0696C	COLLECTION DATE:	12/14/2022 3:34:00 PM
CLIENT SAMPLE ID	GW-12142022-MW-4	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	**7.0 H**	0.15	1	MG/L	12/16/2022	RAL
Sulfate	EPA-300.0	**6.5**	0.26	1	MG/L	12/16/2022	RAL
Arsenic	EPA-200.8	**46**	1.0	1	UG/L	12/19/2022	EBS
Cobalt	EPA-200.8	**21**	1.0	1	UG/L	12/19/2022	EBS
Iron	EPA-200.8	**320**	50	1	UG/L	12/19/2022	EBS
Manganese	EPA-200.8	**420**	2.0	1	UG/L	12/19/2022	EBS
Molybdenum	EPA-200.8	**140**	1.0	1	UG/L	12/19/2022	EBS
Arsenic (Dissolved)	EPA-200.8	**45**	1.0	1	UG/L	12/19/2022	EBS
Cobalt (Dissolved)	EPA-200.8	**21**	1.0	1	UG/L	12/19/2022	EBS
Iron (Dissolved)	EPA-200.8	U	50	1	UG/L	12/19/2022	EBS
Manganese (Dissolved)	EPA-200.8	**350**	2.0	1	UG/L	12/19/2022	EBS
Molybdenum (Dissolved)	EPA-200.8	**140**	1.0	1	UG/L	12/19/2022	EBS
Dissolved Organic Carbon (DOC)	EPA-415.1	**9.4**	0.25	1	MG/L	12/22/2022	CAS

U - Analyte analyzed for but not detected at level above reporting limit.
H - Sample analyzed outside of hold time.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT: Geosyntec Consultants
520 Pike St, Suite 2600
Seattle, WA 98101
CLIENT CONTACT: Luke Smith
CLIENT PROJECT: PNR0696C

DATE: 12/29/2022
ALS SDG#: EV22120104
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MBLK-R424690 - Batch R424690 - Water by EPA-300.0

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	U	MG/L	0.15	12/16/2022	RAL
Sulfate	EPA-300.0	U	MG/L	0.26	12/16/2022	RAL

U - Analyte analyzed for but not detected at level above reporting limit.

MB-121922W - Batch 187539 - Water by EPA-200.8

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-200.8	U	UG/L	1.0	12/19/2022	EBS
Cobalt	EPA-200.8	U	UG/L	1.0	12/19/2022	EBS
Iron	EPA-200.8	U	UG/L	50	12/19/2022	EBS
Manganese	EPA-200.8	U	UG/L	2.0	12/19/2022	EBS
Molybdenum	EPA-200.8	U	UG/L	1.0	12/19/2022	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

MB-121922W - Batch 187540 - Water by EPA-200.8

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Arsenic (Dissolved)	EPA-200.8	U	UG/L	1.0	12/19/2022	EBS
Cobalt (Dissolved)	EPA-200.8	U	UG/L	1.0	12/19/2022	EBS
Iron (Dissolved)	EPA-200.8	U	UG/L	50	12/19/2022	EBS
Manganese (Dissolved)	EPA-200.8	U	UG/L	2.0	12/19/2022	EBS
Molybdenum (Dissolved)	EPA-200.8	U	UG/L	1.0	12/19/2022	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

MBLK-R424988 - Batch R424988 - Water by EPA-415.1

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Dissolved Organic Carbon (DOC)	EPA-415.1	U	MG/L	0.25	12/22/2022	CAS

U - Analyte analyzed for but not detected at level above reporting limit.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT: Geosyntec Consultants
520 Pike St, Suite 2600
Seattle, WA 98101
CLIENT CONTACT: Luke Smith
CLIENT PROJECT: PNR0696C

DATE: 12/29/2022
ALS SDG#: EV22120104
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: R424690 - Water by EPA-300.0

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Nitrate - BS	EPA-300.0	**104**			80	120	12/16/2022	RAL
Nitrate - BSD	EPA-300.0	**103**	**1**		80	120	12/16/2022	RAL
Sulfate - BS	EPA-300.0	**100**			80	120	12/16/2022	RAL
Sulfate - BSD	EPA-300.0	**100**	**0**		80	120	12/16/2022	RAL

ALS Test Batch ID: 187539 - Water by EPA-200.8

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-200.8	**104**			89.1	110	12/19/2022	EBS
Arsenic - BSD	EPA-200.8	**104**	**0**		89.1	110	12/19/2022	EBS
Cobalt - BS	EPA-200.8	**102**			85.8	108	12/19/2022	EBS
Cobalt - BSD	EPA-200.8	**102**	**1**		85.8	108	12/19/2022	EBS
Iron - BS	EPA-200.8	**103**			80	120	12/19/2022	EBS
Iron - BSD	EPA-200.8	**103**	**0**		80	120	12/19/2022	EBS
Manganese - BS	EPA-200.8	**100**			82.2	110	12/19/2022	EBS
Manganese - BSD	EPA-200.8	**101**	**0**		82.2	110	12/19/2022	EBS
Molybdenum - BS	EPA-200.8	**102**			90.3	113	12/19/2022	EBS
Molybdenum - BSD	EPA-200.8	**101**	**1**		90.3	113	12/19/2022	EBS

ALS Test Batch ID: 187540 - Water by EPA-200.8

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Arsenic (Dissolved) - BS	EPA-200.8	**104**			89.1	110	12/19/2022	EBS
Arsenic (Dissolved) - BSD	EPA-200.8	**104**	**0**		89.1	110	12/19/2022	EBS
Cobalt (Dissolved) - BS	EPA-200.8	**102**			85.8	108	12/19/2022	EBS
Cobalt (Dissolved) - BSD	EPA-200.8	**102**	**1**		85.8	108	12/19/2022	EBS
Iron (Dissolved) - BS	EPA-200.8	**103**			80	120	12/19/2022	EBS
Iron (Dissolved) - BSD	EPA-200.8	**103**	**0**		80	120	12/19/2022	EBS
Manganese (Dissolved) - BS	EPA-200.8	**100**			82.2	110	12/19/2022	EBS
Manganese (Dissolved) - BSD	EPA-200.8	**101**	**0**		82.2	110	12/19/2022	EBS
Molybdenum (Dissolved) - BS	EPA-200.8	**102**			90.3	113	12/19/2022	EBS
Molybdenum (Dissolved) - BSD	EPA-200.8	**101**	**1**		90.3	113	12/19/2022	EBS

ALS Test Batch ID: R424988 - Water by EPA-415.1

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Dissolved Organic Carbon (DOC) - BS	EPA-415.1	**98.8**			80	120	12/22/2022	CAS

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

APPROVED BY

Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626

ALS Group USA, Corp dba ALS Environmental

ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV2212014

Date 12-14-22 Page 1 Of 1

PROJECT ID: PNR0696C
REPORT TO COMPANY: Geosyntec
PROJECT MANAGER: Luke Smith
ADDRESS: ~~101 N 1st~~ ~~Sunnyside, WA~~ Seattle WA
PHONE: 206-496-1452 P.O. #:
E-MAIL: luke.smith@geosyntec.com
INVOICE TO COMPANY: Geosyntec
ATTENTION: Sam Scherer
ADDRESS: 520 Pike St., Suite 2600
Seattle, WA 98101

ANALYSIS REQUESTED

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	BTEX by EPA 8260	MTBE by EPA 8021	MTBE by EPA 8260	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	Metals-MTCA-5	RCRA-8	Pri Pol	TAL	Metals Other (Specify) As, Co, Mo, Fe, Mn	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs	OTHER (Specify) Nitrate by EPA 300.0	Sulfate by EPA 300.0	Dissolved organic carbon EPA 9060A	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. GW-12142022-MW-1	12-14-22	1147	W	1																				X						X	X	X	4	
2. GW-12142022-MW-2	12-14-22	1308	W	2																				X						X	X	X	4	
3. GW-12142022-DUP-1	12-14-22	1313	W	3																				X						X	X	X	4	
4. GW-12142022-MW-3	12-14-22	1435	W	4																				X						X	X	X	4	
5. GW-12142022-MW-4	12-14-22	1534	W	5																				X						X	X	X	4	
6.																																		
7.																																		
8.																																		
9.																																		
10.																																		

Sam Scherer 12-14-22

SPECIAL INSTRUCTIONS total and dissolved metals, dissolved metals and dissolved organic carbon were field filtered w/ 0.45-µm filter.

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Sam Scherer Sam Sch, Geosyntec, 12.15.22 1349
   Received By: ALS 12/15/22 1349
2. Relinquished By: _____
   Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: [X] 10 Standard [ ] 5 [ ] 3 [ ] 2 [ ] 1 [ ] SAME DAY

Fuels & Hydrocarbon Analysis: [X] 5 Standard [ ] 3 [ ] 1 [ ] SAME DAY

OTHER: Specify: _____

*Turnaround request less than standard may incur Rush Charges

January 31, 2023

Mr. Luke Smith
Geosyntec Consultants
520 Pike St, Suite 2600
Seattle, WA 98101

Dear Mr. Smith,

On January 19th, 5 samples were received by our laboratory and assigned our laboratory project number EV23010114. The project was identified as your Sunnyside. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer
Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE:	1/31/2023
		ALS JOB#:	EV23010114
		ALS SAMPLE#:	EV23010114-01
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	01/19/2023
CLIENT PROJECT:	Sunnyside	COLLECTION DATE:	1/18/2023 12:55:00 PM
CLIENT SAMPLE ID	GW-011823-MW-1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	**110**	0.15	1	MG/L	01/19/2023	RAL
Sulfate	EPA-300.0	**260**	0.26	1	MG/L	01/19/2023	RAL
Arsenic	EPA-200.8	**7.9**	1.0	1	UG/L	01/23/2023	EBS
Cobalt	EPA-200.8	U	1.0	1	UG/L	01/23/2023	EBS
Iron	EPA-200.8	**220**	50	1	UG/L	01/23/2023	EBS
Manganese	EPA-200.8	**190**	2.0	1	UG/L	01/23/2023	EBS
Molybdenum	EPA-200.8	**23**	1.0	1	UG/L	01/23/2023	EBS
Arsenic (Dissolved)	EPA-200.8	**7.7**	1.0	1	UG/L	01/23/2023	EBS
Cobalt (Dissolved)	EPA-200.8	U	1.0	1	UG/L	01/23/2023	EBS
Iron (Dissolved)	EPA-200.8	U	50	1	UG/L	01/23/2023	EBS
Manganese (Dissolved)	EPA-200.8	**19**	2.0	1	UG/L	01/23/2023	EBS
Molybdenum (Dissolved)	EPA-200.8	**24**	1.0	1	UG/L	01/23/2023	EBS
Dissolved Organic Carbon (DOC)	EPA-415.1	**3.0**	0.50	1	MG/L	01/27/2023	CAS

U - Analyte analyzed for but not detected at level above reporting limit.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE:	1/31/2023
		ALS JOB#:	EV23010114
		ALS SAMPLE#:	EV23010114-02
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	01/19/2023
CLIENT PROJECT:	Sunnyside	COLLECTION DATE:	1/18/2023 12:12:00 PM
CLIENT SAMPLE ID	GW-011823-MW-2	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	**0.44**	0.15	1	MG/L	01/19/2023	RAL
Sulfate	EPA-300.0	**12**	0.26	1	MG/L	01/19/2023	RAL
Arsenic	EPA-200.8	**57**	1.0	1	UG/L	01/23/2023	EBS
Cobalt	EPA-200.8	**46**	1.0	1	UG/L	01/23/2023	EBS
Iron	EPA-200.8	**37000**	50	1	UG/L	01/23/2023	EBS
Manganese	EPA-200.8	**6700**	10	5	UG/L	01/23/2023	EBS
Molybdenum	EPA-200.8	**7.2**	1.0	1	UG/L	01/23/2023	EBS
Arsenic (Dissolved)	EPA-200.8	**46**	1.0	1	UG/L	01/23/2023	EBS
Cobalt (Dissolved)	EPA-200.8	**44**	1.0	1	UG/L	01/23/2023	EBS
Iron (Dissolved)	EPA-200.8	**36000**	50	1	UG/L	01/23/2023	EBS
Manganese (Dissolved)	EPA-200.8	**6500**	10	5	UG/L	01/23/2023	EBS
Molybdenum (Dissolved)	EPA-200.8	**3.4**	1.0	1	UG/L	01/23/2023	EBS
Dissolved Organic Carbon (DOC)	EPA-415.1	**1100**	25	50	MG/L	01/27/2023	CAS

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE:	1/31/2023
		ALS JOB#:	EV23010114
		ALS SAMPLE#:	EV23010114-03
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	01/19/2023
CLIENT PROJECT:	Sunnyside	COLLECTION DATE:	1/18/2023 11:35:00 AM
CLIENT SAMPLE ID	GW-011823-MW-3	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	**0.49**	0.15	1	MG/L	01/19/2023	RAL
Sulfate	EPA-300.0	**0.69**	0.26	1	MG/L	01/19/2023	RAL
Arsenic	EPA-200.8	**73**	1.0	1	UG/L	01/23/2023	EBS
Cobalt	EPA-200.8	**96**	1.0	1	UG/L	01/23/2023	EBS
Iron	EPA-200.8	**50000**	50	1	UG/L	01/23/2023	EBS
Manganese	EPA-200.8	**12000**	20	10	UG/L	01/23/2023	EBS
Molybdenum	EPA-200.8	**15**	1.0	1	UG/L	01/23/2023	EBS
Arsenic (Dissolved)	EPA-200.8	**73**	1.0	1	UG/L	01/23/2023	EBS
Cobalt (Dissolved)	EPA-200.8	**100**	1.0	1	UG/L	01/23/2023	EBS
Iron (Dissolved)	EPA-200.8	**53000**	50	1	UG/L	01/23/2023	EBS
Manganese (Dissolved)	EPA-200.8	**12000**	20	10	UG/L	01/23/2023	EBS
Molybdenum (Dissolved)	EPA-200.8	**12**	1.0	1	UG/L	01/23/2023	EBS
Dissolved Organic Carbon (DOC)	EPA-415.1	**700**	25	50	MG/L	01/27/2023	CAS

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE:	1/31/2023
		ALS JOB#:	EV23010114
		ALS SAMPLE#:	EV23010114-04
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	01/19/2023
CLIENT PROJECT:	Sunnyside	COLLECTION DATE:	1/18/2023 11:03:00 AM
CLIENT SAMPLE ID	GW-011823-MW-4	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	**360**	0.15	1	MG/L	01/19/2023	RAL
Sulfate	EPA-300.0	**480**	0.26	1	MG/L	01/19/2023	RAL
Arsenic	EPA-200.8	**46**	1.0	1	UG/L	01/23/2023	EBS
Cobalt	EPA-200.8	**15**	1.0	1	UG/L	01/23/2023	EBS
Iron	EPA-200.8	U	50	1	UG/L	01/23/2023	EBS
Manganese	EPA-200.8	**380**	2.0	1	UG/L	01/23/2023	EBS
Molybdenum	EPA-200.8	**210**	1.0	1	UG/L	01/23/2023	EBS
Arsenic (Dissolved)	EPA-200.8	**48**	1.0	1	UG/L	01/23/2023	EBS
Cobalt (Dissolved)	EPA-200.8	**15**	1.0	1	UG/L	01/23/2023	EBS
Iron (Dissolved)	EPA-200.8	U	50	1	UG/L	01/23/2023	EBS
Manganese (Dissolved)	EPA-200.8	**370**	2.0	1	UG/L	01/23/2023	EBS
Molybdenum (Dissolved)	EPA-200.8	**210**	1.0	1	UG/L	01/23/2023	EBS
Dissolved Organic Carbon (DOC)	EPA-415.1	**12**	0.50	1	MG/L	01/27/2023	CAS

U - Analyte analyzed for but not detected at level above reporting limit.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE:	1/31/2023
		ALS JOB#:	EV23010114
		ALS SAMPLE#:	EV23010114-05
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	01/19/2023
CLIENT PROJECT:	Sunnyside	COLLECTION DATE:	1/18/2023 12:00:00 PM
CLIENT SAMPLE ID	GW-011823-DUP-1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	U	0.15	1	MG/L	01/19/2023	RAL
Sulfate	EPA-300.0	**12**	0.26	1	MG/L	01/19/2023	RAL
Arsenic	EPA-200.8	**54**	1.0	1	UG/L	01/23/2023	EBS
Cobalt	EPA-200.8	**47**	1.0	1	UG/L	01/23/2023	EBS
Iron	EPA-200.8	**36000**	50	1	UG/L	01/23/2023	EBS
Manganese	EPA-200.8	**6800**	10	5	UG/L	01/23/2023	EBS
Molybdenum	EPA-200.8	**7.2**	1.0	1	UG/L	01/23/2023	EBS
Arsenic (Dissolved)	EPA-200.8	**50**	1.0	1	UG/L	01/23/2023	EBS
Cobalt (Dissolved)	EPA-200.8	**43**	1.0	1	UG/L	01/23/2023	EBS
Iron (Dissolved)	EPA-200.8	**37000**	50	1	UG/L	01/23/2023	EBS
Manganese (Dissolved)	EPA-200.8	**6500**	10	5	UG/L	01/23/2023	EBS
Molybdenum (Dissolved)	EPA-200.8	**5.0**	1.0	1	UG/L	01/23/2023	EBS
Dissolved Organic Carbon (DOC)	EPA-415.1	**1100**	25	50	MG/L	01/27/2023	CAS

U - Analyte analyzed for but not detected at level above reporting limit.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE:	1/31/2023
		ALS SDG#:	EV23010114
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Luke Smith		
CLIENT PROJECT:	Sunnyside		

LABORATORY BLANK RESULTS

MBLK-R426578 - Batch R426578 - Water by EPA-300.0

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	U	MG/L	0.15	01/19/2023	RAL
Sulfate	EPA-300.0	U	MG/L	0.26	01/19/2023	RAL

U - Analyte analyzed for but not detected at level above reporting limit.

MB-012323W - Batch 188793 - Water by EPA-200.8

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-200.8	U	UG/L	1.0	01/23/2023	EBS
Cobalt	EPA-200.8	U	UG/L	1.0	01/23/2023	EBS
Iron	EPA-200.8	U	UG/L	50	01/23/2023	EBS
Manganese	EPA-200.8	U	UG/L	2.0	01/23/2023	EBS
Molybdenum	EPA-200.8	U	UG/L	1.0	01/23/2023	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

MB-012323W - Batch 188797 - Water by EPA-200.8

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Arsenic (Dissolved)	EPA-200.8	U	UG/L	1.0	01/23/2023	EBS
Cobalt (Dissolved)	EPA-200.8	U	UG/L	1.0	01/23/2023	EBS
Iron (Dissolved)	EPA-200.8	U	UG/L	50	01/23/2023	EBS
Manganese (Dissolved)	EPA-200.8	U	UG/L	2.0	01/23/2023	EBS
Molybdenum (Dissolved)	EPA-200.8	U	UG/L	1.0	01/23/2023	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

MBLK-R426977 - Batch R426977 - Water by EPA-415.1

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Dissolved Organic Carbon (DOC)	EPA-415.1	U	MG/L	0.50	01/27/2023	CAS

U - Analyte analyzed for but not detected at level above reporting limit.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT: Geosyntec Consultants
520 Pike St, Suite 2600
Seattle, WA 98101

CLIENT CONTACT: Luke Smith
CLIENT PROJECT: Sunnyside

DATE: 1/31/2023
ALS SDG#: EV23010114
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: R426578 - Water by EPA-300.0

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Nitrate - BS	EPA-300.0	**102**			80	120	01/19/2023	RAL
Nitrate - BSD	EPA-300.0	**102**	**0**		80	120	01/19/2023	RAL
Sulfate - BS	EPA-300.0	**94.0**			80	120	01/19/2023	RAL
Sulfate - BSD	EPA-300.0	**96.0**	**2**		80	120	01/19/2023	RAL

ALS Test Batch ID: 188793 - Water by EPA-200.8

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-200.8	**94.8**			89.1	110	01/23/2023	EBS
Arsenic - BSD	EPA-200.8	**94.2**	**1**		89.1	110	01/23/2023	EBS
Cobalt - BS	EPA-200.8	**101**			85.8	108	01/23/2023	EBS
Cobalt - BSD	EPA-200.8	**99.5**	**2**		85.8	108	01/23/2023	EBS
Iron - BS	EPA-200.8	**96.2**			80	120	01/23/2023	EBS
Iron - BSD	EPA-200.8	**96.0**	**0**		80	120	01/23/2023	EBS
Manganese - BS	EPA-200.8	**92.2**			82.2	110	01/23/2023	EBS
Manganese - BSD	EPA-200.8	**91.8**	**0**		82.2	110	01/23/2023	EBS
Molybdenum - BS	EPA-200.8	**99.0**			90.3	113	01/23/2023	EBS
Molybdenum - BSD	EPA-200.8	**98.4**	**1**		90.3	113	01/23/2023	EBS

ALS Test Batch ID: 188797 - Water by EPA-200.8

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Arsenic (Dissolved) - BS	EPA-200.8	**94.8**			89.1	110	01/23/2023	EBS
Arsenic (Dissolved) - BSD	EPA-200.8	**94.2**	**1**		89.1	110	01/23/2023	EBS
Cobalt (Dissolved) - BS	EPA-200.8	**101**			85.8	108	01/23/2023	EBS
Cobalt (Dissolved) - BSD	EPA-200.8	**99.5**	**2**		85.8	108	01/23/2023	EBS
Iron (Dissolved) - BS	EPA-200.8	**96.2**			80	120	01/23/2023	EBS
Iron (Dissolved) - BSD	EPA-200.8	**96.0**	**0**		80	120	01/23/2023	EBS
Manganese (Dissolved) - BS	EPA-200.8	**92.2**			82.2	110	01/23/2023	EBS
Manganese (Dissolved) - BSD	EPA-200.8	**91.8**	**0**		82.2	110	01/23/2023	EBS
Molybdenum (Dissolved) - BS	EPA-200.8	**99.0**			90.3	113	01/23/2023	EBS
Molybdenum (Dissolved) - BSD	EPA-200.8	**98.4**	**1**		90.3	113	01/23/2023	EBS

ALS Test Batch ID: R426977 - Water by EPA-415.1

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Dissolved Organic Carbon (DOC) - BS	EPA-415.1	**99.6**			83	117	01/27/2023	CAS

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

APPROVED BY

Rob Greer
Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

Chain of Custody

EV2301 0114

Laboratory 8620 Holly Drive, Everett, WA 98208 USA | +1 425 356 2600

(If viewing electronically, this is a drop down list - click on the address above - a drop down arrow will appear to the right of the address)

Work Order No.:

Project Manager:	Luke Smith			**Bill to:**	Luke Smith		
Client Name:	Geosyntec			**Company:**	Geosyntec		
Address:	520 Pike St, Suite 2600			**Address:**	520 Pike St, Suite 2600		
City, State ZIP:	Seattle, WA 98101			**City, State ZIP:**	Seattle, WA 98101		
Email:	Luke.Smith@Geosyntec.com	**Phone:**	(206) 496-1452	**Email:**	luke.smith@geosyntec.com	**PO#**	
Project Site:	101 N 1st St, Sunnyside	**State:**	WA				
Project Name:	Sunnyside						
Project Number:							
P.O. Number:							
Sampler's Name:	Fonda DeSantos						

SAMPLE RECEIPT

Temperature (°C):		Temp Blank Present					
Received Intact:	Yes	No	N/A	Wet Ice / Blue Ice			
Cooler Custody Seals:	Yes	No	N/A	Total Containers:			
Sample Custody Seals:	Yes	No	N/A				

REQUESTED ANALYSIS

Sample Identification	Matrix	Date Sampled	Time Sampled	Lab ID	No. of Containers		Total As, Co, Mo, Fe, Mn (EPA 200.8)	Dissolved As, Co, Mo,Fe, Mn (Field Filtered) (EPA 200.8)	Nitrate (EPA 300.0)	Sulfate (EPA 300.0)	Dissolved Organic Carbon (Field Filtered)(EPA 9060A)												Comments
GW-011823-MW-1	GW	01/18/23	1255	1	4		X	X	X	X	X												
GW-011823-MW-2			1212	2	4		X	X	X	X	X												
GW-011823-MW-3			1135	3	4		X	X	X	X	X												
GW-011823-MW-4			1103	4	4		X	X	X	X	X												
GW-011823-DUP-1			1200	5	4		X	X	X	X	X												

TAT

- [x] Routine 10 Day
- [ ] 24 hours * 100%
- [ ] 48 hours* 80%
- [ ] 3 Day* 60%
- [ ] 5 day* 50%

* Please call for availability

Due Date:

Dissolved	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Tl, V, Zn, Zr
Total	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Tl, V, Zn, Zr

Additional Methods Available Upon Request

RELINQUISHED BY			RECEIVED BY		
Print Name	Signature	Date/Time	Print Name	Signature	Date/Time
Fonda DeSantos	Fonda DeSantos	01/18/23 @ 1710	Rich Palmer	Rich Palmer	1/18/23 @ 1710
Rich Palmer	Rich Palmer	1/19/23 @ 0823	Shawn Robinson	Shawn Robinson	1/19/23 0823

Revised : 1/17/2023

February 28, 2023

Mr. Luke Smith
Geosyntec Consultants
520 Pike St, Suite 2600
Seattle, WA 98101

Dear Mr. Smith,

On February 15th, 5 samples were received by our laboratory and assigned our laboratory project number EV23020099. The project was identified as your Sunnyside. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer
Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE:	2/28/2023
		ALS JOB#:	EV23020099
		ALS SAMPLE#:	EV23020099-01
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	02/15/2023
CLIENT PROJECT:	Sunnyside	COLLECTION DATE:	2/15/2023 10:18:00 AM
CLIENT SAMPLE ID	GW-021523-MW-1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	**120**	3.8	25	MG/L	02/16/2023	EBS
Sulfate	EPA-300.0	**260**	6.5	25	MG/L	02/16/2023	EBS
Arsenic	EPA-200.8	**9.5**	1.0	1	UG/L	02/17/2023	EBS
Cobalt	EPA-200.8	U	1.0	1	UG/L	02/17/2023	EBS
Iron	EPA-200.8	**1900**	100	1	UG/L	02/17/2023	EBS
Manganese	EPA-200.8	**690**	2.0	1	UG/L	02/17/2023	EBS
Molybdenum	EPA-200.8	**26**	1.0	1	UG/L	02/17/2023	EBS
Arsenic (Dissolved)	EPA-200.8	**8.4**	1.0	1	UG/L	02/17/2023	EBS
Cobalt (Dissolved)	EPA-200.8	U	1.0	1	UG/L	02/17/2023	EBS
Iron (Dissolved)	EPA-200.8	**170**	100	1	UG/L	02/17/2023	EBS
Manganese (Dissolved)	EPA-200.8	**110**	2.0	1	UG/L	02/17/2023	EBS
Molybdenum (Dissolved)	EPA-200.8	**23**	1.0	1	UG/L	02/17/2023	EBS
Dissolved Organic Carbon (DOC)	EPA-9060	**2.6**	0.50	1	MG/L	02/23/2023	CAS

U - Analyte analyzed for but not detected at level above reporting limit.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE:	2/28/2023
		ALS JOB#:	EV23020099
		ALS SAMPLE#:	EV23020099-02
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	02/15/2023
CLIENT PROJECT:	Sunnyside	COLLECTION DATE:	2/15/2023 10:51:00 AM
CLIENT SAMPLE ID	GW-021523-MW-2	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	**0.17**	0.15	1	MG/L	02/16/2023	EBS
Sulfate	EPA-300.0	**1.0**	0.26	1	MG/L	02/16/2023	EBS
Arsenic	EPA-200.8	**67**	1.0	1	UG/L	02/17/2023	EBS
Cobalt	EPA-200.8	**30**	1.0	1	UG/L	02/17/2023	EBS
Iron	EPA-200.8	**39000**	100	1	UG/L	02/17/2023	EBS
Manganese	EPA-200.8	**5500**	2.0	1	UG/L	02/17/2023	EBS
Molybdenum	EPA-200.8	**5.6**	1.0	1	UG/L	02/17/2023	EBS
Arsenic (Dissolved)	EPA-200.8	**55**	1.0	1	UG/L	02/17/2023	EBS
Cobalt (Dissolved)	EPA-200.8	**30**	1.0	1	UG/L	02/17/2023	EBS
Iron (Dissolved)	EPA-200.8	**38000**	100	1	UG/L	02/17/2023	EBS
Manganese (Dissolved)	EPA-200.8	**5500**	2.0	1	UG/L	02/17/2023	EBS
Molybdenum (Dissolved)	EPA-200.8	**1.9**	1.0	1	UG/L	02/17/2023	EBS
Dissolved Organic Carbon (DOC)	EPA-9060	**1100**	50	100	MG/L	02/23/2023	CAS

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CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE:	2/28/2023
		ALS JOB#:	EV23020099
		ALS SAMPLE#:	EV23020099-03
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	02/15/2023
CLIENT PROJECT:	Sunnyside	COLLECTION DATE:	2/15/2023 11:47:00 AM
CLIENT SAMPLE ID	GW-021523-MW-3	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	**0.57**	0.15	1	MG/L	02/16/2023	EBS
Sulfate	EPA-300.0	**0.78**	0.26	1	MG/L	02/16/2023	EBS
Arsenic	EPA-200.8	**74**	1.0	1	UG/L	02/17/2023	EBS
Cobalt	EPA-200.8	**84**	1.0	1	UG/L	02/17/2023	EBS
Iron	EPA-200.8	**61000**	100	1	UG/L	02/17/2023	EBS
Manganese	EPA-200.8	**12000**	10	5	UG/L	02/17/2023	EBS
Molybdenum	EPA-200.8	**9.6**	1.0	1	UG/L	02/17/2023	EBS
Arsenic (Dissolved)	EPA-200.8	**73**	1.0	1	UG/L	02/17/2023	EBS
Cobalt (Dissolved)	EPA-200.8	**82**	1.0	1	UG/L	02/17/2023	EBS
Iron (Dissolved)	EPA-200.8	**61000**	100	1	UG/L	02/17/2023	EBS
Manganese (Dissolved)	EPA-200.8	**12000**	10	5	UG/L	02/17/2023	EBS
Molybdenum (Dissolved)	EPA-200.8	**8.4**	1.0	1	UG/L	02/17/2023	EBS
Dissolved Organic Carbon (DOC)	EPA-9060	**580**	50	100	MG/L	02/23/2023	CAS

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
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CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE:	2/28/2023
		ALS JOB#:	EV23020099
		ALS SAMPLE#:	EV23020099-04
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	02/15/2023
CLIENT PROJECT:	Sunnyside	COLLECTION DATE:	2/15/2023 11:19:00 AM
CLIENT SAMPLE ID	GW-021523-MW-4	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	**320**	15	100	MG/L	02/16/2023	EBS
Sulfate	EPA-300.0	**490**	26	100	MG/L	02/16/2023	EBS
Arsenic	EPA-200.8	**53**	1.0	1	UG/L	02/17/2023	EBS
Cobalt	EPA-200.8	**13**	1.0	1	UG/L	02/17/2023	EBS
Iron	EPA-200.8	**290**	100	1	UG/L	02/17/2023	EBS
Manganese	EPA-200.8	**610**	2.0	1	UG/L	02/17/2023	EBS
Molybdenum	EPA-200.8	**200**	1.0	1	UG/L	02/17/2023	EBS
Arsenic (Dissolved)	EPA-200.8	**260**	5.0	5	UG/L	02/17/2023	EBS
Cobalt (Dissolved)	EPA-200.8	**66**	5.0	5	UG/L	02/17/2023	EBS
Iron (Dissolved)	EPA-200.8	U	500	5	UG/L	02/17/2023	EBS
Manganese (Dissolved)	EPA-200.8	**2900**	10	5	UG/L	02/17/2023	EBS
Molybdenum (Dissolved)	EPA-200.8	**980**	5.0	5	UG/L	02/17/2023	EBS
Dissolved Organic Carbon (DOC)	EPA-9060	**12**	0.50	1	MG/L	02/23/2023	CAS

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE:	2/28/2023
		ALS JOB#:	EV23020099
		ALS SAMPLE#:	EV23020099-05
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	02/15/2023
CLIENT PROJECT:	Sunnyside	COLLECTION DATE:	2/15/2023 12:00:00 PM
CLIENT SAMPLE ID	GW-021523-Dup-1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	**110**	3.8	25	MG/L	02/16/2023	EBS
Sulfate	EPA-300.0	**250**	6.5	25	MG/L	02/16/2023	EBS
Arsenic	EPA-200.8	**9.3**	1.0	1	UG/L	02/17/2023	EBS
Cobalt	EPA-200.8	U	1.0	1	UG/L	02/17/2023	EBS
Iron	EPA-200.8	**1700**	100	1	UG/L	02/17/2023	EBS
Manganese	EPA-200.8	**550**	2.0	1	UG/L	02/17/2023	EBS
Molybdenum	EPA-200.8	**24**	1.0	1	UG/L	02/17/2023	EBS
Arsenic (Dissolved)	EPA-200.8	**8.5**	1.0	1	UG/L	02/17/2023	EBS
Cobalt (Dissolved)	EPA-200.8	U	1.0	1	UG/L	02/17/2023	EBS
Iron (Dissolved)	EPA-200.8	U	100	1	UG/L	02/17/2023	EBS
Manganese (Dissolved)	EPA-200.8	**21**	2.0	1	UG/L	02/17/2023	EBS
Molybdenum (Dissolved)	EPA-200.8	**25**	1.0	1	UG/L	02/17/2023	EBS
Dissolved Organic Carbon (DOC)	EPA-9060	**2.9**	0.50	1	MG/L	02/23/2023	CAS

U - Analyte analyzed for but not detected at level above reporting limit.

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ALS Group USA, Corp dba ALS Environmental

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CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE:	2/28/2023
		ALS SDG#:	EV23020099
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Luke Smith		
CLIENT PROJECT:	Sunnyside		

LABORATORY BLANK RESULTS

MBLK-R428989 - Batch R428989 - Water by EPA-300.0

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	U	MG/L	0.15	02/16/2023	EBS
Sulfate	EPA-300.0	U	MG/L	0.26	02/16/2023	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021623W - Batch 189857 - Water by EPA-200.8

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-200.8	U	UG/L	1.0	02/17/2023	EBS
Cobalt	EPA-200.8	U	UG/L	1.0	02/17/2023	EBS
Iron	EPA-200.8	U	UG/L	100	02/17/2023	EBS
Manganese	EPA-200.8	U	UG/L	2.0	02/17/2023	EBS
Molybdenum	EPA-200.8	U	UG/L	1.0	02/17/2023	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

MB-021623W - Batch 189858 - Water by EPA-200.8

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Arsenic (Dissolved)	EPA-200.8	U	UG/L	1.0	02/17/2023	EBS
Cobalt (Dissolved)	EPA-200.8	U	UG/L	1.0	02/17/2023	EBS
Iron (Dissolved)	EPA-200.8	U	UG/L	100	02/17/2023	EBS
Manganese (Dissolved)	EPA-200.8	U	UG/L	2.0	02/17/2023	EBS
Molybdenum (Dissolved)	EPA-200.8	U	UG/L	1.0	02/17/2023	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

MBLK-428992 - Batch R428992 - Water by EPA-9060

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Dissolved Organic Carbon (DOC)	EPA-9060	U	MG/L	0.50	02/23/2023	CAS

U - Analyte analyzed for but not detected at level above reporting limit.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT: Geosyntec Consultants
520 Pike St, Suite 2600
Seattle, WA 98101

CLIENT CONTACT: Luke Smith
CLIENT PROJECT: Sunnyside

DATE: 2/28/2023
ALS SDG#: EV23020099
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: R428989 - Water by EPA-300.0

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Nitrate - BS	EPA-300.0	**101**			80	120	02/16/2023	EBS
Nitrate - BSD	EPA-300.0	**102**	**0**		80	120	02/16/2023	EBS
Sulfate - BS	EPA-300.0	**99.0**			80	120	02/16/2023	EBS
Sulfate - BSD	EPA-300.0	**100**	**1**		80	120	02/16/2023	EBS

ALS Test Batch ID: 189857 - Water by EPA-200.8

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-200.8	**97.3**			89.1	110	02/17/2023	EBS
Arsenic - BSD	EPA-200.8	**98.4**	**1**		89.1	110	02/17/2023	EBS
Cobalt - BS	EPA-200.8	**101**			85.8	108	02/17/2023	EBS
Cobalt - BSD	EPA-200.8	**99.7**	**2**		85.8	108	02/17/2023	EBS
Iron - BS	EPA-200.8	**98.7**			80	120	02/17/2023	EBS
Iron - BSD	EPA-200.8	**99.4**	**1**		80	120	02/17/2023	EBS
Manganese - BS	EPA-200.8	**94.2**			82.2	110	02/17/2023	EBS
Manganese - BSD	EPA-200.8	**95.7**	**2**		82.2	110	02/17/2023	EBS
Molybdenum - BS	EPA-200.8	**100**			90.3	113	02/17/2023	EBS
Molybdenum - BSD	EPA-200.8	**102**	**2**		90.3	113	02/17/2023	EBS

ALS Test Batch ID: 189858 - Water by EPA-200.8

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Arsenic (Dissolved) - BS	EPA-200.8	**97.3**			89.1	110	02/17/2023	EBS
Arsenic (Dissolved) - BSD	EPA-200.8	**98.4**	**1**		89.1	110	02/17/2023	EBS
Cobalt (Dissolved) - BS	EPA-200.8	**101**			85.8	108	02/17/2023	EBS
Cobalt (Dissolved) - BSD	EPA-200.8	**99.7**	**2**		85.8	108	02/17/2023	EBS
Iron (Dissolved) - BS	EPA-200.8	**98.7**			80	120	02/17/2023	EBS
Iron (Dissolved) - BSD	EPA-200.8	**99.4**	**1**		80	120	02/17/2023	EBS
Manganese (Dissolved) - BS	EPA-200.8	**94.2**			82.2	110	02/17/2023	EBS
Manganese (Dissolved) - BSD	EPA-200.8	**95.7**	**2**		82.2	110	02/17/2023	EBS
Molybdenum (Dissolved) - BS	EPA-200.8	**100**			90.3	113	02/17/2023	EBS
Molybdenum (Dissolved) - BSD	EPA-200.8	**102**	**2**		90.3	113	02/17/2023	EBS

ALS Test Batch ID: R428992 - Water by EPA-9060

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Dissolved Organic Carbon (DOC) - BS	EPA-9060	**98.8**			83	117	02/23/2023	CAS

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

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CERTIFICATE OF ANALYSIS

APPROVED BY

Rob Greer
Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

Chain of Custody

Laboratory 8620 Holly Drive, Everett, WA 98208 USA | +1 425 356 2600

(If viewing electronically, this is a drop down list - click on the address above - a drop down arrow will appear to the right of the address)

Work Order No.: EV2302099

Project Manager:	Luke Smith		
Client Name:	Geosyntec		
Address:	520 Pike St, Suite 2600		
City, State ZIP:	Seattle, WA 98101		
Email:	Luke.Smith@Geosyntec.com	**Phone:**	(206) 496-1452
Project Site:	101 N 1st St, Sunnyside	**State:**	WA
Project Name:	Sunnyside		
Project Number:			
P.O. Number:			
Sampler's Name:	Christina Mroz		

Bill to:	Luke Smith		
Company:	Geosyntec		
Address:	520 Pike St, Suite 2600		
City, State ZIP:	Seattle, WA 98101		
Email:	luke.smith@geosyntec.com	**PO#**	10004515 6

SAMPLE RECEIPT

Temperature (°C):			Temp Blank Present		
Received Intact:	Yes	No	N/A	Wet Ice / Blue Ice	
Cooler Custody Seals:	Yes	No	N/A	Total Containers:	
Sample Custody Seals:	Yes	No	N/A		

REQUESTED ANALYSIS

Sample Identification	Matrix	Date Sampled	Time Sampled	Lab ID	No. of Containers		Total As, Co, Mo, Fe, Mn (EPA 200.8)	Dissolved As, Co, Mo, Fe, Mn (Field Filtered) (EPA 200.8)	Nitrate (EPA 300.0)	Sulfate (EPA 300.0)	Dissolved Organic Carbon (Field Filtered)(EPA 9060A)												
GW-021523-mw-1	GW	2/15/23	1018	1	4		X	X	X	X	X												
GW-021523-mw-2			1051	2	4		X	X	X	X	X												
GW-021523-mw-3			1147	3	4		X	X	X	X	X												
GW-021523-mw-4			1119	4	4		X	X	X	X	X												
GW-021523-Dup-1			1200	5	4		X	X	X	X	X												

TAT

- [x] Routine 10 Day
- [ ] 24 hours * 100%
- [ ] 48 hours* 80%
- [ ] 3 Day* 60%
- [ ] 5 day* 50%

* Please call for availability

Due Date:

Comments

Dissolved	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Tl, V, Zn, Zr
Total	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Tl, V, Zn, Zr

Additional Methods Available Upon Request

RELINQUISHED BY			RECEIVED BY		
Print Name	Signature	Date/Time	Print Name	Signature	Date/Time
Christina Mroz		2/15/23 1524	ROB GREA		2/15/23 3:25pm

Revised: 1/17/2023

May 30, 2023

Mr. Luke Smith
Geosyntec Consultants
520 Pike St, Suite 2600
Seattle, WA 98101

Dear Mr. Smith,

On May 17th, 6 samples were received by our laboratory and assigned our laboratory project number EV23050130. The project was identified as your Sunnyside - PNR0696D. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer
Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE: ALS JOB#: ALS SAMPLE#:	5/30/2023 EV23050130 EV23050130-01
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	05/17/2023
CLIENT PROJECT:	Sunnyside - PNR0696D	COLLECTION DATE:	5/17/2023 8:16:00 AM
CLIENT SAMPLE ID	GW-051723-MW-1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	**190**	7.6	50	MG/L	05/17/2023	RAL
Sulfate	EPA-300.0	**480**	13	50	MG/L	05/17/2023	RAL
Arsenic	EPA-200.8	**10**	1.0	1	UG/L	05/23/2023	EBS
Cobalt	EPA-200.8	**1.9**	1.0	1	UG/L	05/23/2023	EBS
Iron	EPA-200.8	**3700**	50	1	UG/L	05/23/2023	EBS
Manganese	EPA-200.8	**650**	2.0	1	UG/L	05/23/2023	EBS
Molybdenum	EPA-200.8	**27**	1.0	1	UG/L	05/23/2023	EBS
Arsenic (Dissolved)	EPA-200.8	**8.7**	1.0	1	UG/L	05/23/2023	EBS
Cobalt (Dissolved)	EPA-200.8	U	1.0	1	UG/L	05/23/2023	EBS
Iron (Dissolved)	EPA-200.8	**450**	50	1	UG/L	05/23/2023	EBS
Manganese (Dissolved)	EPA-200.8	**130**	2.0	1	UG/L	05/23/2023	EBS
Molybdenum (Dissolved)	EPA-200.8	**26**	1.0	1	UG/L	05/23/2023	EBS
Dissolved Organic Carbon (DOC)	EPA-9060	**2.7**	0.50	1	MG/L	05/22/2023	CAS

U - Analyte analyzed for but not detected at level above reporting limit.

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ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE: ALS JOB#: ALS SAMPLE#:	5/30/2023 EV23050130 EV23050130-02
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	05/17/2023
CLIENT PROJECT:	Sunnyside - PNR0696D	COLLECTION DATE:	5/17/2023 9:35:00 AM
CLIENT SAMPLE ID	GW-051723-MW-2	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	U	0.15	1	MG/L	05/17/2023	RAL
Sulfate	EPA-300.0	**0.32**	0.26	1	MG/L	05/17/2023	RAL
Arsenic	EPA-200.8	**80**	1.0	1	UG/L	05/23/2023	EBS
Cobalt	EPA-200.8	**14**	1.0	1	UG/L	05/23/2023	EBS
Iron	EPA-200.8	**29000**	50	1	UG/L	05/23/2023	EBS
Manganese	EPA-200.8	**3200**	2.0	1	UG/L	05/23/2023	EBS
Molybdenum	EPA-200.8	**3.6**	1.0	1	UG/L	05/23/2023	EBS
Arsenic (Dissolved)	EPA-200.8	**70**	1.0	1	UG/L	05/23/2023	EBS
Cobalt (Dissolved)	EPA-200.8	**14**	1.0	1	UG/L	05/23/2023	EBS
Iron (Dissolved)	EPA-200.8	**29000**	50	1	UG/L	05/23/2023	EBS
Manganese (Dissolved)	EPA-200.8	**3300**	2.0	1	UG/L	05/23/2023	EBS
Molybdenum (Dissolved)	EPA-200.8	U	1.0	1	UG/L	05/23/2023	EBS
Dissolved Organic Carbon (DOC)	EPA-9060	**990**	50	100	MG/L	05/22/2023	CAS

U - Analyte analyzed for but not detected at level above reporting limit.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE: ALS JOB#: ALS SAMPLE#:	5/30/2023 EV23050130 EV23050130-03
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	05/17/2023
CLIENT PROJECT:	Sunnyside - PNR0696D	COLLECTION DATE:	5/17/2023 10:33:00 AM
CLIENT SAMPLE ID	GW-051723-MW-3	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	U	0.15	1	MG/L	05/17/2023	RAL
Sulfate	EPA-300.0	**0.27**	0.26	1	MG/L	05/17/2023	RAL
Arsenic	EPA-200.8	**78**	1.0	1	UG/L	05/23/2023	EBS
Cobalt	EPA-200.8	**38**	1.0	1	UG/L	05/23/2023	EBS
Iron	EPA-200.8	**48000**	50	1	UG/L	05/23/2023	EBS
Manganese	EPA-200.8	**7700**	10	5	UG/L	05/23/2023	EBS
Molybdenum	EPA-200.8	**13**	1.0	1	UG/L	05/23/2023	EBS
Arsenic (Dissolved)	EPA-200.8	**76**	1.0	1	UG/L	05/23/2023	EBS
Cobalt (Dissolved)	EPA-200.8	**37**	1.0	1	UG/L	05/23/2023	EBS
Iron (Dissolved)	EPA-200.8	**47000**	50	1	UG/L	05/23/2023	EBS
Manganese (Dissolved)	EPA-200.8	**7400**	10	5	UG/L	05/23/2023	EBS
Molybdenum (Dissolved)	EPA-200.8	**12**	1.0	1	UG/L	05/23/2023	EBS
Dissolved Organic Carbon (DOC)	EPA-9060	**250**	25	50	MG/L	05/22/2023	CAS

U - Analyte analyzed for but not detected at level above reporting limit.

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ALS Group USA, Corp dba ALS Environmental

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CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE: ALS JOB#: ALS SAMPLE#:	5/30/2023 EV23050130 EV23050130-04
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	05/17/2023
CLIENT PROJECT:	Sunnyside - PNR0696D	COLLECTION DATE:	5/17/2023 10:10:00 AM
CLIENT SAMPLE ID	GW-051723-MW-4	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	**340**	15	100	MG/L	05/17/2023	RAL
Sulfate	EPA-300.0	**500**	26	100	MG/L	05/17/2023	RAL
Arsenic	EPA-200.8	**53**	1.0	1	UG/L	05/23/2023	EBS
Cobalt	EPA-200.8	**17**	1.0	1	UG/L	05/23/2023	EBS
Iron	EPA-200.8	**130**	50	1	UG/L	05/23/2023	EBS
Manganese	EPA-200.8	**680**	2.0	1	UG/L	05/23/2023	EBS
Molybdenum	EPA-200.8	**140**	1.0	1	UG/L	05/23/2023	EBS
Arsenic (Dissolved)	EPA-200.8	**52**	1.0	1	UG/L	05/23/2023	EBS
Cobalt (Dissolved)	EPA-200.8	**16**	1.0	1	UG/L	05/23/2023	EBS
Iron (Dissolved)	EPA-200.8	U	50	1	UG/L	05/23/2023	EBS
Manganese (Dissolved)	EPA-200.8	**620**	2.0	1	UG/L	05/23/2023	EBS
Molybdenum (Dissolved)	EPA-200.8	**130**	1.0	1	UG/L	05/23/2023	EBS
Dissolved Organic Carbon (DOC)	EPA-9060	**10**	0.50	1	MG/L	05/22/2023	CAS

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CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE: ALS JOB#: ALS SAMPLE#:	5/30/2023 EV23050130 EV23050130-05
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	05/17/2023
CLIENT PROJECT:	Sunnyside - PNR0696D	COLLECTION DATE:	5/17/2023 9:00:00 AM
CLIENT SAMPLE ID	GW-051723-MW-5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	**80**	3.8	25	MG/L	05/17/2023	RAL
Sulfate	EPA-300.0	**230**	6.5	25	MG/L	05/17/2023	RAL
Arsenic	EPA-200.8	**5.8**	1.0	1	UG/L	05/23/2023	EBS
Cobalt	EPA-200.8	**2.2**	1.0	1	UG/L	05/23/2023	EBS
Iron	EPA-200.8	**500**	50	1	UG/L	05/23/2023	EBS
Manganese	EPA-200.8	**570**	2.0	1	UG/L	05/23/2023	EBS
Molybdenum	EPA-200.8	**110**	1.0	1	UG/L	05/23/2023	EBS
Arsenic (Dissolved)	EPA-200.8	**5.3**	1.0	1	UG/L	05/23/2023	EBS
Cobalt (Dissolved)	EPA-200.8	**1.9**	1.0	1	UG/L	05/23/2023	EBS
Iron (Dissolved)	EPA-200.8	U	50	1	UG/L	05/23/2023	EBS
Manganese (Dissolved)	EPA-200.8	**550**	2.0	1	UG/L	05/23/2023	EBS
Molybdenum (Dissolved)	EPA-200.8	**110**	1.0	1	UG/L	05/23/2023	EBS
Dissolved Organic Carbon (DOC)	EPA-9060	**5.0**	0.50	1	MG/L	05/22/2023	CAS

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CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE: ALS JOB#: ALS SAMPLE#:	5/30/2023 EV23050130 EV23050130-06
CLIENT CONTACT:	Luke Smith	DATE RECEIVED:	05/17/2023
CLIENT PROJECT:	Sunnyside - PNR0696D	COLLECTION DATE:	5/17/2023 12:00:00 PM
CLIENT SAMPLE ID	GW-051723-DUP-1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	**84**	3.8	25	MG/L	05/17/2023	RAL
Sulfate	EPA-300.0	**230**	6.5	25	MG/L	05/17/2023	RAL
Arsenic	EPA-200.8	**5.4**	1.0	1	UG/L	05/23/2023	EBS
Cobalt	EPA-200.8	**2.0**	1.0	1	UG/L	05/23/2023	EBS
Iron	EPA-200.8	**330**	50	1	UG/L	05/23/2023	EBS
Manganese	EPA-200.8	**550**	2.0	1	UG/L	05/23/2023	EBS
Molybdenum	EPA-200.8	**110**	1.0	1	UG/L	05/23/2023	EBS
Arsenic (Dissolved)	EPA-200.8	**5.4**	1.0	1	UG/L	05/23/2023	EBS
Cobalt (Dissolved)	EPA-200.8	**1.9**	1.0	1	UG/L	05/23/2023	EBS
Iron (Dissolved)	EPA-200.8	U	50	1	UG/L	05/23/2023	EBS
Manganese (Dissolved)	EPA-200.8	**550**	2.0	1	UG/L	05/23/2023	EBS
Molybdenum (Dissolved)	EPA-200.8	**110**	1.0	1	UG/L	05/23/2023	EBS
Dissolved Organic Carbon (DOC)	EPA-9060	**5.2**	0.50	1	MG/L	05/22/2023	CAS

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CERTIFICATE OF ANALYSIS

CLIENT:	Geosyntec Consultants 520 Pike St, Suite 2600 Seattle, WA 98101	DATE:	5/30/2023
		ALS SDG#:	EV23050130
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Luke Smith		
CLIENT PROJECT:	Sunnyside - PNR0696D		

LABORATORY BLANK RESULTS

MBLK-R436604 - Batch R436604 - Water by EPA-300.0

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Nitrate	EPA-300.0	U	MG/L	0.15	05/17/2023	RAL
Sulfate	EPA-300.0	U	MG/L	0.26	05/17/2023	RAL

U - Analyte analyzed for but not detected at level above reporting limit.

MB-052023W - Batch 194240 - Water by EPA-200.8

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-200.8	U	UG/L	1.0	05/23/2023	EBS
Cobalt	EPA-200.8	U	UG/L	1.0	05/23/2023	EBS
Iron	EPA-200.8	U	UG/L	50	05/23/2023	EBS
Manganese	EPA-200.8	U	UG/L	2.0	05/23/2023	EBS
Molybdenum	EPA-200.8	U	UG/L	1.0	05/23/2023	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

MB-052023W - Batch 194241 - Water by EPA-200.8

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Arsenic (Dissolved)	EPA-200.8	U	UG/L	1.0	05/23/2023	EBS
Cobalt (Dissolved)	EPA-200.8	U	UG/L	1.0	05/23/2023	EBS
Iron (Dissolved)	EPA-200.8	U	UG/L	50	05/23/2023	EBS
Manganese (Dissolved)	EPA-200.8	U	UG/L	2.0	05/23/2023	EBS
Molybdenum (Dissolved)	EPA-200.8	U	UG/L	1.0	05/23/2023	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

MBLK-R436607 - Batch R436607 - Water by EPA-9060

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Dissolved Organic Carbon (DOC)	EPA-9060	U	MG/L	0.50	05/22/2023	CAS

U - Analyte analyzed for but not detected at level above reporting limit.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT: Geosyntec Consultants
520 Pike St, Suite 2600
Seattle, WA 98101
CLIENT CONTACT: Luke Smith
CLIENT PROJECT: Sunnyside - PNR0696D

DATE: 5/30/2023
ALS SDG#: EV23050130
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: R436604 - Water by EPA-300.0

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Nitrate - BS	EPA-300.0	**92.0**			80	120	05/17/2023	RAL
Nitrate - BSD	EPA-300.0	**94.5**	**3**		80	120	05/17/2023	RAL
Sulfate - BS	EPA-300.0	**93.0**			80	120	05/17/2023	RAL
Sulfate - BSD	EPA-300.0	**93.5**	**1**		80	120	05/17/2023	RAL

ALS Test Batch ID: 194240 - Water by EPA-200.8

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-200.8	**96.9**			89.1	110	05/23/2023	EBS
Arsenic - BSD	EPA-200.8	**97.5**	**1**		89.1	110	05/23/2023	EBS
Cobalt - BS	EPA-200.8	**102**			85.8	108	05/23/2023	EBS
Cobalt - BSD	EPA-200.8	**104**	**1**		85.8	108	05/23/2023	EBS
Iron - BS	EPA-200.8	**101**			80	120	05/23/2023	EBS
Iron - BSD	EPA-200.8	**100**	**0**		80	120	05/23/2023	EBS
Manganese - BS	EPA-200.8	**97.4**			82.2	110	05/23/2023	EBS
Manganese - BSD	EPA-200.8	**97.7**	**0**		82.2	110	05/23/2023	EBS
Molybdenum - BS	EPA-200.8	**103**			90.3	113	05/23/2023	EBS
Molybdenum - BSD	EPA-200.8	**105**	**2**		90.3	113	05/23/2023	EBS

ALS Test Batch ID: 194241 - Water by EPA-200.8

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Arsenic (Dissolved) - BS	EPA-200.8	**96.9**			89.1	110	05/23/2023	EBS
Arsenic (Dissolved) - BSD	EPA-200.8	**97.5**	**1**		89.1	110	05/23/2023	EBS
Cobalt (Dissolved) - BS	EPA-200.8	**102**			85.8	108	05/23/2023	EBS
Cobalt (Dissolved) - BSD	EPA-200.8	**104**	**1**		85.8	108	05/23/2023	EBS
Iron (Dissolved) - BS	EPA-200.8	**101**			80	120	05/23/2023	EBS
Iron (Dissolved) - BSD	EPA-200.8	**100**	**0**		80	120	05/23/2023	EBS
Manganese (Dissolved) - BS	EPA-200.8	**97.4**			82.2	110	05/23/2023	EBS
Manganese (Dissolved) - BSD	EPA-200.8	**97.7**	**0**		82.2	110	05/23/2023	EBS
Molybdenum (Dissolved) - BS	EPA-200.8	**103**			90.3	113	05/23/2023	EBS
Molybdenum (Dissolved) - BSD	EPA-200.8	**105**	**2**		90.3	113	05/23/2023	EBS

ALS Test Batch ID: R436607 - Water by EPA-9060

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Dissolved Organic Carbon (DOC) - BS	EPA-9060	**98.0**			83	117	05/22/2023	CAS

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

APPROVED BY

Rob Greer
Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

Chain of Custody

Laboratory 8620 Holly Drive, Everett, WA 98208 USA | +1 425 356 2600

(If viewing electronically, this is a drop down list - click on the address above - a drop down arrow will appear to the right of the address)

Work Order No.: EV230501 30

Project Manager:	Luke Smith			**Bill to:**	Luke Smith		
Client Name:	Geosyntec			**Company:**	Geosyntec		
Address:	520 Pike St, Suite 2600			**Address:**	520 Pike St, Suite 2600		
City, State ZIP:	Seattle, WA 98101			**City, State ZIP:**	Seattle, WA 98101		
Email:	Luke.Smith@Geosyntec.com	**Phone:**	(206) 496-1452	**Email:**	luke.smith@geosyntec.com	**PO#**	10004856O
Project Site:	101 N 1st St, Sunnyside	**State:**	WA				
Project Name:	Sunnyside						
Project Number:	PNR0696D						
P.O. Number:							
Sampler's Name:	Diana Ojeda						

SAMPLE RECEIPT

Temperature (°C):		Temp Blank Present				
Received Intact:	Yes	No	N/A	Wet Ice / Blue Ice		
Cooler Custody Seals:	Yes	No	N/A	Total Containers:		
Sample Custody Seals:	Yes	No	N/A			

REQUESTED ANALYSIS

Sample Identification	Matrix	Date Sampled	Time Sampled	Lab ID	No. of Containers		Total As, Co, Mo, Fe, Mn (EPA 200.8)	Dissolved As, Co, Mo,Fe, Mn (Field Filtered) (EPA 200.8)	Nitrate (EPA 300.0)	Sulfate (EPA 300.0)	Dissolved Organic Carbon (Field Filtered)(EPA 9060A)														
GW-051723-MW-1	GW	5/17/23	0816	1	4		X	X	X	X	X														
GW-051723-MW-2			0935	2	4		X	X	X	X	X														
GW-051723-MW-3			1033	3	4		X	X	X	X	X														
GW-051723-MW-4			1010	4	4		X	X	X	X	X														
GW-051723-MW-5			0900	5	4		X	X	X	X	X														
GW-051723-DUP-1			1200	6	4		X	X	X	X	X														

TAT

- [X] Routine 10 Day
- [ ] 24 hours * 100%
- [ ] 48 hours* 80%
- [ ] 3 Day* 60%
- [ ] 5 day* 50%

* Please call for availability

Due Date:

Comments

Dissolved	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Tl, V, Zn, Zr
Total	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Tl, V, Zn, Zr

Additional Methods Available Upon Request

RELINQUISHED BY			RECEIVED BY		
Print Name	Signature	Date/Time	Print Name	Signature	Date/Time
Diana Ojeda	Diana Ojeda	5/17/23 1430	ROB GREEN		5/17/23 14:34

Revised: 2/8/2023