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www.alsglobal.com

LABORATORY REPORT

May 25, 2018

Cindy Bartlett
GeoSyntec Consultants
621 SW Morrison Street Suite 600
Portland, OR 97205

RE: Cascade Corp SVE / PNG0564 S16

Dear Cindy:

Enclosed are the results of the samples submitted to our laboratory on May 11, 2018. For your reference, these analyses have been assigned our service request number P1802423.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Kate Kaneko at 5:08 pm, 05/25/18

Kate Kaneko
Project Manager



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Client: GeoSyntec Consultants
Project: Cascade Corp SVE / PNG0564 S16

Service Request No: P1802423

CASE NARRATIVE

The samples were received intact under chain of custody on May 11, 2018 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for selected volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.1 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2016036
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1347317
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-005
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-17-8
Utah DOH (NELAP)	http://health.utah.gov/lab/environmental-lab-certification/	CA01627201 7-8
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: GeoSyntec Consultants
 Project ID: Cascade Corp SVE / PNG0564 S16

Service Request: P1802423

Date Received: 5/11/2018
 Time Received: 10:00

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
VMW EFF-050918	P1802423-001	Air	5/9/2018	13:30	1SC00745	-2.13	5.15	X
VMW 95.5-050918	P1802423-002	Air	5/9/2018	13:40	1SC00886	-2.15	6.25	X
VMWA-050918	P1802423-003	Air	5/9/2018	13:52	1SC00905	-1.91	5.46	X
VMWB-050918	P1802423-004	Air	5/9/2018	14:25	1SC01063	-2.18	6.08	X
VMWC-050918	P1802423-005	Air	5/9/2018	14:05	1SC00310	-1.51	5.36	X
VMWD-050918	P1802423-006	Air	5/9/2018	14:38	1SC00529	-1.49	6.14	X



2655 Park Center Drive, Suite A
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Air - Chain of Custody Record & Analytical Service Request

Company Name & Address (Reporting Information)		Requested Turnaround Time in Business Days (Surcharges) please circle 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10-Day-Standard		ALS Project No.							
Geosyntec 621 SW Morrison Street (Suite 600) Portland Oregon 97205 Project Manager Brent Miller Phone (971) 271-5895 Fax (971) 271-5884 Email Address for Result Reporting B.Miller@Geosyntec.COM		Cascade Corp SVE PNG 0564516 Geosyntec c/o Cindy Bartlett Sampler (Print & Sign) PAT YARON / Patrick E. Yaron		P1802423							
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Analysis Method	Comments e.g. Actual Preservative or specific instructions	
VMW EFF - 050918	1	5/9/18	13:30	1SC00745	OA00878	-28.65	-5	1			
VMW95.5 - 050918	2	5/9/18	13:40	1SC00886	OA01458	-29.04	-5	1			
VMWA - 050918	3	5/9/18	13:52	1SC00905	OA01933	-29.15	-5	1			
VMWB - 050918	4	5/9/18	14:25	1SC01063	OA01469	-29.25	-5	1			
VMWC - 050918	5	5/9/18	14:05	1SC00310	OA01378	-25.81	-5	1			
VMWD - 050918	6	5/9/18	14:38	1SC00529	OA00219	-29.26	-5	1			
Report Tier Levels - please select Tier I - Results (Default in not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Date Validation Package) 10% Surcharge _____ EDD required YES / No _____ Units: _____ Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT											
Relinquished by: (Signature) Patrick E. Yaron		Date: 5/9/18		Time: 15:40		Received by: (Signature) FEDEX		Date: 5/11/18		Time: 10:00	
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Date:		Time:	
Project Requirements (MRLs, QAPP)											
Cooler / Blank Temperature _____ °C											

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: GeoSyntec Consultants
Client Sample ID: VMW EFF-050918
Client Project ID: Cascade Corp SVE / PNG0564 S16

ALS Project ID: P1802423
 ALS Sample ID: P1802423-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00745

Date Collected: 5/9/18
 Date Received: 5/11/18
 Date Analyzed: 5/16/18
 Volume(s) Analyzed: 0.40 Liter(s)
 0.040 Liter(s)

Initial Pressure (psig): -2.13 Final Pressure (psig): 5.15

Container Dilution Factor: 1.58

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	2.1	ND	0.80	
75-35-4	1,1-Dichloroethene	ND	2.1	ND	0.53	
156-59-2	cis-1,2-Dichloroethene	55	2.1	14	0.53	
79-01-6	Trichloroethene	740	21	140	3.9	D
127-18-4	Tetrachloroethene	57	2.1	8.5	0.31	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: GeoSyntec Consultants
Client Sample ID: VMW 95.5-050918
Client Project ID: Cascade Corp SVE / PNG0564 S16

ALS Project ID: P1802423
 ALS Sample ID: P1802423-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00886

Date Collected: 5/9/18
 Date Received: 5/11/18
 Date Analyzed: 5/16/18
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.15 Final Pressure (psig): 6.25

Container Dilution Factor: 1.67

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	2.2	ND	0.85	
75-35-4	1,1-Dichloroethene	ND	2.2	ND	0.56	
156-59-2	cis-1,2-Dichloroethene	45	2.2	11	0.56	
79-01-6	Trichloroethene	360	2.2	66	0.41	
127-18-4	Tetrachloroethene	18	2.2	2.6	0.33	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: GeoSyntec Consultants
Client Sample ID: VMWA-050918
Client Project ID: Cascade Corp SVE / PNG0564 S16

ALS Project ID: P1802423
 ALS Sample ID: P1802423-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00905

Date Collected: 5/9/18
 Date Received: 5/11/18
 Date Analyzed: 5/16/18
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.91 Final Pressure (psig): 5.46

Container Dilution Factor: 1.58

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	2.1	ND	0.80	
75-35-4	1,1-Dichloroethene	ND	2.1	ND	0.53	
156-59-2	cis-1,2-Dichloroethene	ND	2.1	ND	0.53	
79-01-6	Trichloroethene	ND	2.1	ND	0.39	
127-18-4	Tetrachloroethene	ND	2.1	ND	0.31	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: GeoSyntec Consultants
Client Sample ID: VMWB-050918
Client Project ID: Cascade Corp SVE / PNG0564 S16

ALS Project ID: P1802423
 ALS Sample ID: P1802423-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC01063

Date Collected: 5/9/18
 Date Received: 5/11/18
 Date Analyzed: 5/16/18
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.18 Final Pressure (psig): 6.08

Container Dilution Factor: 1.66

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	2.2	ND	0.84	
75-35-4	1,1-Dichloroethene	ND	2.2	ND	0.55	
156-59-2	cis-1,2-Dichloroethene	ND	2.2	ND	0.55	
79-01-6	Trichloroethene	ND	2.2	ND	0.41	
127-18-4	Tetrachloroethene	ND	2.2	ND	0.32	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: GeoSyntec Consultants
Client Sample ID: VMWC-050918
Client Project ID: Cascade Corp SVE / PNG0564 S16

ALS Project ID: P1802423
 ALS Sample ID: P1802423-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00310

Date Collected: 5/9/18
 Date Received: 5/11/18
 Date Analyzed: 5/16/18
 Volume(s) Analyzed: 0.070 Liter(s)

Initial Pressure (psig): -1.51 Final Pressure (psig): 5.36

Container Dilution Factor: 1.52

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	11	ND	4.4	
75-35-4	1,1-Dichloroethene	ND	12	ND	2.9	
156-59-2	cis-1,2-Dichloroethene	96	12	24	2.9	
79-01-6	Trichloroethene	2,000	12	370	2.1	
127-18-4	Tetrachloroethene	110	12	16	1.7	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: GeoSyntec Consultants
Client Sample ID: VMWD-050918
Client Project ID: Cascade Corp SVE / PNG0564 S16

ALS Project ID: P1802423
 ALS Sample ID: P1802423-006

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00529

Date Collected: 5/9/18
 Date Received: 5/11/18
 Date Analyzed: 5/16/18
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.49 Final Pressure (psig): 6.14

Container Dilution Factor: 1.58

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	2.1	ND	0.80	
75-35-4	1,1-Dichloroethene	ND	2.1	ND	0.53	
156-59-2	cis-1,2-Dichloroethene	ND	2.1	ND	0.53	
79-01-6	Trichloroethene	ND	2.1	ND	0.39	
127-18-4	Tetrachloroethene	ND	2.1	ND	0.31	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: GeoSyntec Consultants
Client Sample ID: Method Blank
Client Project ID: Cascade Corp SVE / PNG0564 S16

ALS Project ID: P1802423
 ALS Sample ID: P180516-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/16/18
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.52	ND	0.20	
75-35-4	1,1-Dichloroethene	ND	0.53	ND	0.13	
156-59-2	cis-1,2-Dichloroethene	ND	0.53	ND	0.13	
79-01-6	Trichloroethene	ND	0.53	ND	0.099	
127-18-4	Tetrachloroethene	ND	0.53	ND	0.078	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: GeoSyntec Consultants
Client Project ID: Cascade Corp SVE / PNG0564 S16

ALS Project ID: P1802423

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: 1.0 L Summa Canister(s)
 Test Notes:

Date(s) Collected: 5/9/18
 Date(s) Received: 5/11/18
 Date(s) Analyzed: 5/16/18

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P180516-MB	107	93	77	70-130	
Lab Control Sample	P180516-LCS	106	91	78	70-130	
VMW EFF-050918	P1802423-001	114	89	78	70-130	
VMW 95.5-050918	P1802423-002	110	89	79	70-130	
VMWA-050918	P1802423-003	103	90	78	70-130	
VMWB-050918	P1802423-004	109	89	85	70-130	
VMWC-050918	P1802423-005	109	89	79	70-130	
VMWC-050918	P1802423-005DUP	108	88	79	70-130	
VMWD-050918	P1802423-006	111	89	78	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: GeoSyntec Consultants
Client Sample ID: Lab Control Sample
Client Project ID: Cascade Corp SVE / PNG0564 S16

ALS Project ID: P1802423
 ALS Sample ID: P180516-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/16/18
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
75-01-4	Vinyl Chloride	211	190	90	63-127	
75-35-4	1,1-Dichloroethene	213	187	88	72-118	
156-59-2	cis-1,2-Dichloroethene	212	197	93	69-121	
79-01-6	Trichloroethene	212	210	99	69-112	
127-18-4	Tetrachloroethene	212	189	89	62-119	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 1

Client: GeoSyntec Consultants

Client Sample ID: VMWC-050918

Client Project ID: Cascade Corp SVE / PNG0564 S16

ALS Project ID: P1802423

ALS Sample ID: P1802423-005DUP

Test Code: EPA TO-15

Date Collected: 5/9/18

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 5/11/18

Analyst: Lusine Hakobyan

Date Analyzed: 5/16/18

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.070 Liter(s)

Test Notes:

Container ID: 1SC00310

Initial Pressure (psig): -1.51

Final Pressure (psig): 5.36

Container Dilution Factor: 1.52

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
cis-1,2-Dichloroethene	96.1	24.2	95.2	24.0	95.65	0.9	25	
Trichloroethene	1,980	369	1,940	362	1960	2	25	
Tetrachloroethene	110	16.3	106	15.7	108	4	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.