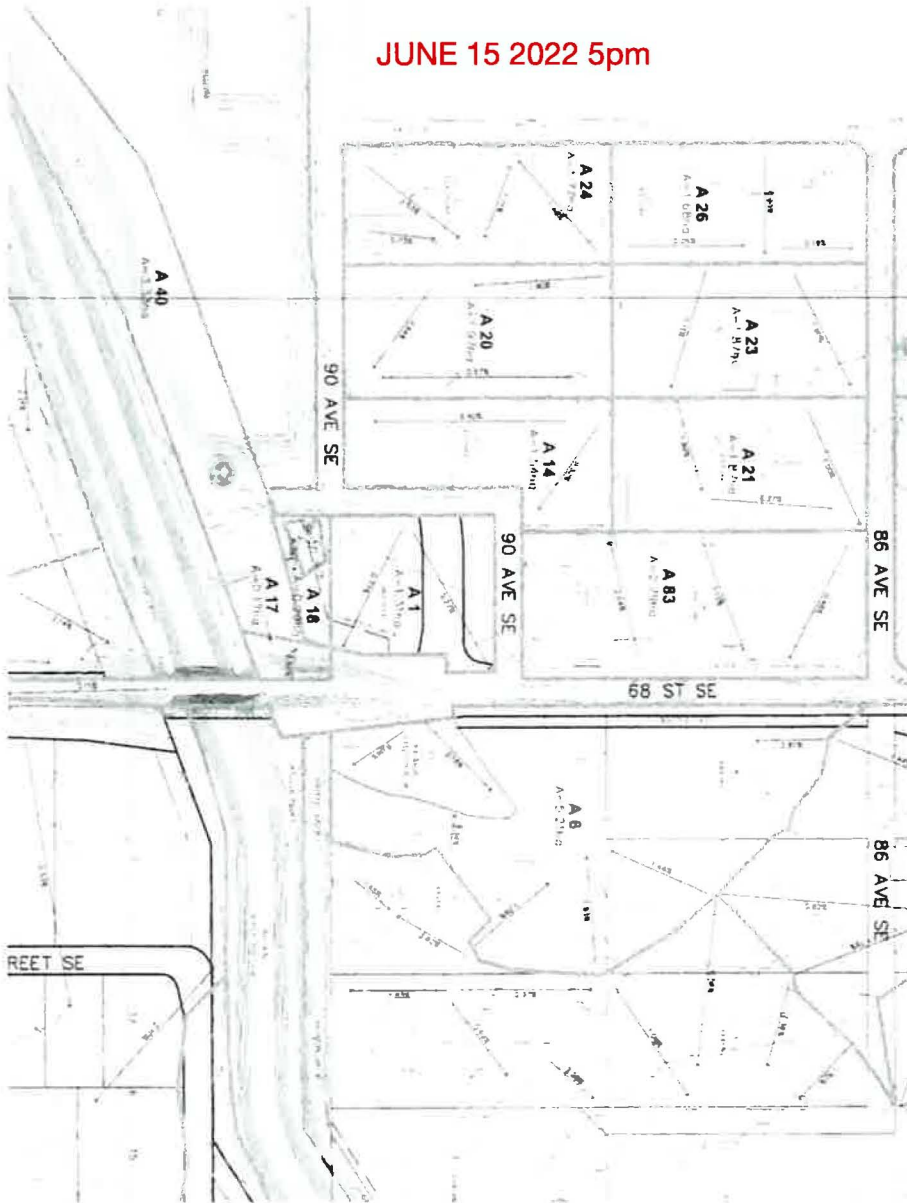


JUNE 15 2022 5pm



Floskid - Water Draining into Westcan

SWMR-01 Overland Drainage IFC June 25 2020

CITY OF CALGARY
RECEIVED
IN COUNCIL CHAMBER
JUL 05 2022
ITEM: 11.4.2 IP2022-0145
Distrib - Public Submissions
CITY CLERK'S DEPARTMENT

Public Submissions
IP2022-0146

Bacon, Kristine

From: Steve Dimant <Steve@westcanrecyclers.com>
Sent: Wednesday, June 29, 2022 3:25 PM
To: Hannaford, Darin
Cc: Preston, Melissa
Subject: **[**EXT**]** Fwd: 90th Avenue SE Urgent
Attachments: Statement regarding fire and water runoff.pdf; L2439087_COA(1).PDF; 90th Ave facing east.JPG; 90th Ave SE Aerial 1 June 28-2022.jpg; 90th Ave SE Aerial 2 June 28-2022.jpg; Apr 21 2020 water sample results compared to guidelines.pdf; June 25,2020 Wood Overland drainage.pdf

From: Steve Dimant <Steve@westcanrecyclers.com>
Date: June 29, 2022 at 1:43:00 PM MDT
To: Stacey.everett@calgary.ca, "Tait, Graham" <Graham.Tait@calgary.ca>, Andrew.phelps@calgary.ca
Subject: **90th Avenue SE Urgent**

Good afternoon all,

I appreciate your random visit four months ago and hope you were enlightened by the tour of our facility and surrounding area.

The issues we have been having for several years have become **URGENT** in nature.

We have made multiple attempts through various channels(311, Fire, Ward Councillor) to get attention and ultimately a solution to the escalating nature of our situation as City Storm is now present on 68th Street SE.

1. Construction on 90th Avenue began yesterday and potentially **CONTAMINATED** soil from 90th Avenue(adjacent to east fence of Recycle Calgary is starting to be removed and hauled away.
2. Recycle Calgary Landfill(C&D) stormwater runoff is actively running onto 90th Avenue and into our property as the water moves West East(June 25,2020 Wood Overland Drainage attached) in this area. This runoff is **CONTAMINATED (results attached from sampling 2020)**
3. Recycle Calgary Landfill(C&D) has **NO STORM RETENTION** as required by City drainage bylaw for industrial sites.
4. **Contractor has not put up (silt fence, compost socks or fibre rolls) to protect off-site areas from storm water runoff and sedimentation during construction(pictures taken June 26-2022 attached).**

The City were provided analytical information several months ago(shortly after your visit) and **NO** action was taken to this very serious matter.

I passed on your contact information to Affordable Auto on 106th and he called to thank me. The Response of Water Resources was swift and the remedy and follow through was immediate.

I reach out directly as the soil was excavated yesterday and rain is forecast in the next several days. We tracked this runoff during the last rainfall and it is moving along the south edge of our property directly into City Storm.

I ask you to please visit the site and do your own investigation and insure the contractor follows Erosion and sediment control policy as well as potential Contamination discovery policy.

Thank you-

Steve Dimant



8919 68 Street SE
Calgary, AB T2C 2X6
Phone: 403-279-6743
Cell : 403-899-8083

[EXTERNAL EMAIL / COURRIEL EXTERNE]

Please report any suspicious attachments, links, or requests for sensitive information.

Veillez rapporter la présence de pièces jointes, de liens ou de demandes d'information sensible qui vous semblent suspectes.

Westcan Recycler's Statement of Concern

- Regarding water runoff from Recycling Calgary 6710 90 Ave SE, Calgary, AB T2C 2T3, following a fire that occurred April 3 2020.

1. The City of Calgary fire department attended the scene on April 3rd in addition to several more times in the following weeks to extinguish flare ups as they dug deeper into their pile. Due to the large amount of water that had been applied there was significant water runoff that accumulated on the road and ditch outside their property.



2. The City of Calgary implemented a pump that was used to remove the water and pump it into an adjacent storm water pond.



3. Westcan was concerned about the contamination that may be present and obtained water samples near Westcan's property. The sample results indicated that there were several components that were in excess of provincial guidelines such as turbidity, dioxins, furans, and several metals including mercury. Unfortunately by the time sample results were obtained the water had already been pumped away by the city. It is unknown if further runoff from rain or snow over the following years contains similar contaminants.





WESTCAN RECYCLERS
ATTN: Travis Gallup
8919 68 STREET SE
CALGARY AB T2C 2X6

Date Received: 21 -APR-20
Report Date: 13 -MAY-20 16:22 (MT)
Version: FINAL

Client Phone: 403-279-6743

Certificate of Analysis

Lab Work Order #: L2439087
Project P.O. #: NOT SUBMITTED
Job Reference: R.C.
C of C Numbers: 17-813441
Legal Site Desc:

Justina - a

Justine Buma - a
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

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Public Submissions
IP2022-0145

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2439087-1 101							
Sampled By: TRAVIS GALLUP on 21-APR-20 @ 14:30							
Matrix: WATER							
BTEX, F1 (C6-C10),F2 (>C10-C16)							
BTEX and Styrene							
Benzene	0.00729		0.00050	mg/L		23-APR-20	R5061646
Toluene	0.00550		0.00050	mg/L		23-APR-20	R5061646
Ethylbenzene	0.00168		0.00050	mg/L		23-APR-20	R5061646
o-Xylene	<0.00080	DLCI	0.00080	mg/L		23-APR-20	R5061646
m+p-Xylene	<0.0015	DLCI	0.0015	mg/L		23-APR-20	R5061646
Surrogate: 4-Bromofluorobenzene	120.5		70-130	%		23-APR-20	R5061646
Surrogate: 1,4-Difluorobenzene	105.8		70-130	%		23-APR-20	R5061646
CCME F2-4 Hydrocarbons							
F2: (C10-C16)	0.33		0.10	mg/L	23-APR-20	24-APR-20	R5059139
Surrogate: 2-Bromobenzotrifluoride	88.3		60-140	%	23-APR-20	24-APR-20	R5059139
F1 (C6-C10)							
F1(C6-C10)	0.12		0.10	mg/L		23-APR-20	R5061657
F1-BTEX	0.11		0.10	mg/L		23-APR-20	R5061657
Surrogate: 3,4-Dichlorotoluene	94.7		70-130	%		23-APR-20	R5061657
Sum of Xylene Isomer Concentrations							
Xylenes	<0.0017		0.0017	mg/L		23-APR-20	
Total CCME Metals							
Total Mercury in Water by CVAAS							
Mercury (Hg)-Total	0.0000349	RRV	0.0000050	mg/L		29-APR-20	R5069661
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	9.44	DLDS	0.015	mg/L		29-APR-20	R5069664
Antimony (Sb)-Total	0.0104	DLDS	0.00050	mg/L		29-APR-20	R5069664
Arsenic (As)-Total	0.0320	DLDS	0.00050	mg/L		29-APR-20	R5069664
Barium (Ba)-Total	0.469	DLDS	0.00050	mg/L		29-APR-20	R5069664
Beryllium (Be)-Total	0.00055	DLDS	0.00050	mg/L		29-APR-20	R5069664
Boron (B)-Total	6.76	DLDS	0.050	mg/L		29-APR-20	R5069664
Cadmium (Cd)-Total	0.00152	DLDS	0.000025	mg/L		29-APR-20	R5069664
Calcium (Ca)-Total	748	DLDS	0.25	mg/L		29-APR-20	R5069664
Chromium (Cr)-Total	0.0430	DLDS	0.00050	mg/L		29-APR-20	R5069664
Cobalt (Co)-Total	0.0285	DLDS	0.00050	mg/L		29-APR-20	R5069664
Copper (Cu)-Total	0.102	DLDS	0.0025	mg/L		29-APR-20	R5069664
Iron (Fe)-Total	22.9	DLDS	0.050	mg/L		29-APR-20	R5069664
Lead (Pb)-Total	0.0651	DLDS	0.00025	mg/L		29-APR-20	R5069664
Lithium (Li)-Total	0.0501	DLDS	0.0050	mg/L		29-APR-20	R5069664
Magnesium (Mg)-Total	71.7	DLDS	0.025	mg/L		29-APR-20	R5069664
Manganese (Mn)-Total	2.86	DLDS	0.00050	mg/L		29-APR-20	R5069664
Molybdenum (Mo)-Total	0.0114	DLDS	0.00025	mg/L		29-APR-20	R5069664
Nickel (Ni)-Total	0.0668	DLDS	0.0025	mg/L		29-APR-20	R5069664
Potassium (K)-Total	38.4	DLDS	0.25	mg/L		29-APR-20	R5069664
Selenium (Se)-Total	0.00155	DLDS	0.00025	mg/L		29-APR-20	R5069664
Silver (Ag)-Total	0.000291	DLDS	0.000050	mg/L		29-APR-20	R5069664
Sodium (Na)-Total	116	DLDS	0.25	mg/L		29-APR-20	R5069664
Thallium (Tl)-Total	0.000298	DLDS	0.000050	mg/L		29-APR-20	R5069664
Tin (Sn)-Total	0.00198	DLDS	0.00050	mg/L		29-APR-20	R5069664
Titanium (Ti)-Total	0.123	DLDS	0.0015	mg/L		29-APR-20	R5069664
Uranium (U)-Total	0.00306	DLDS	0.000050	mg/L		29-APR-20	R5069664
Vanadium (V)-Total	0.0280	DLDS	0.0025	mg/L		29-APR-20	R5069664
Zinc (Zn)-Total	4.86	DLDS	0.015	mg/L		29-APR-20	R5069664
Dioxins and Furans							
2,3,7,8-TCDD	<0.57	[U]	0.57	pg/L	01-MAY-20	06-MAY-20	R5077416

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2439087-1 101							
Sampled By: TRAVIS GALLUP on 21-APR-20 @ 14:30							
Matrix: WATER							
Dioxins and Furans							
1,2,3,7,8-PeCDD	1.40	M,J,R	0.64	pg/L	01-MAY-20	06-MAY-20	R5077416
1,2,3,4,7,8-HxCDD	2.23	[J]	0.59	pg/L	01-MAY-20	06-MAY-20	R5077416
1,2,3,6,7,8-HxCDD	9.33	[J]	0.59	pg/L	01-MAY-20	06-MAY-20	R5077416
1,2,3,7,8,9-HxCDD	5.19	M,J	0.59	pg/L	01-MAY-20	06-MAY-20	R5077416
1,2,3,4,6,7,8-HpCDD	268		1.8	pg/L	01-MAY-20	06-MAY-20	R5077416
OCDD	2130		2.8	pg/L	01-MAY-20	06-MAY-20	R5077416
2,3,7,8-TCDF	<0.64	[U]	0.64	pg/L	01-MAY-20	06-MAY-20	R5077416
1,2,3,7,8-PeCDF	<0.51	[U]	0.51	pg/L	01-MAY-20	06-MAY-20	R5077416
2,3,4,7,8-PeCDF	1.50	M,J,R	0.42	pg/L	01-MAY-20	06-MAY-20	R5077416
1,2,3,4,7,8-HxCDF	1.80	J,R	0.58	pg/L	01-MAY-20	06-MAY-20	R5077416
1,2,3,6,7,8-HxCDF	2.00	J,R	0.58	pg/L	01-MAY-20	06-MAY-20	R5077416
2,3,4,6,7,8-HxCDF	4.39	[J]	0.57	pg/L	01-MAY-20	06-MAY-20	R5077416
1,2,3,7,8,9-HxCDF	1.30	M,J,R	0.72	pg/L	01-MAY-20	06-MAY-20	R5077416
1,2,3,4,6,7,8-HpCDF	54.2		1.2	pg/L	01-MAY-20	06-MAY-20	R5077416
1,2,3,4,7,8,9-HpCDF	2.8	J,R	1.4	pg/L	01-MAY-20	06-MAY-20	R5077416
OCDF	140		1.1	pg/L	01-MAY-20	06-MAY-20	R5077416
Total-TCDD	<0.57	[U]	0.57	pg/L	01-MAY-20	06-MAY-20	R5077416
Total TCDD # Homologues	0				01-MAY-20	06-MAY-20	R5077416
Total-PeCDD	4.50		0.64	pg/L	01-MAY-20	06-MAY-20	R5077416
Total PeCDD # Homologues	2				01-MAY-20	06-MAY-20	R5077416
Total-HxCDD	70.4		0.59	pg/L	01-MAY-20	06-MAY-20	R5077416
Total HxCDD # Homologues	6				01-MAY-20	06-MAY-20	R5077416
Total-HpCDD	498		1.8	pg/L	01-MAY-20	06-MAY-20	R5077416
Total HpCDD # Homologues	2				01-MAY-20	06-MAY-20	R5077416
Total-TCDF	1.95		0.64	pg/L	01-MAY-20	06-MAY-20	R5077416
Total TCDF # Homologues	1				01-MAY-20	06-MAY-20	R5077416
Total-PeCDF	14.5		0.51	pg/L	01-MAY-20	06-MAY-20	R5077416
Total PeCDF # Homologues	2				01-MAY-20	06-MAY-20	R5077416
Total-HxCDF	48.8		0.72	pg/L	01-MAY-20	06-MAY-20	R5077416
Total HxCDF # Homologues	3				01-MAY-20	06-MAY-20	R5077416
Total-HpCDF	150		1.4	pg/L	01-MAY-20	06-MAY-20	R5077416
Total HpCDF # Homologues	2				01-MAY-20	06-MAY-20	R5077416
Surrogate: 13C12-2,3,7,8-TCDD	64.0		40-140	%	01-MAY-20	06-MAY-20	R5077416
Surrogate: 13C12-1,2,3,7,8-PeCDD	67.0		40-140	%	01-MAY-20	06-MAY-20	R5077416
Surrogate: 13C12-1,2,3,4,7,8-HxCDD	59.0		40-140	%	01-MAY-20	06-MAY-20	R5077416
Surrogate: 13C12-1,2,3,6,7,8-HxCDD	62.0		40-140	%	01-MAY-20	06-MAY-20	R5077416
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD	69.0		40-140	%	01-MAY-20	06-MAY-20	R5077416
Surrogate: 13C12-OCDD	48.0		40-140	%	01-MAY-20	06-MAY-20	R5077416
Surrogate: 13C12-2,3,7,8-TCDF	58.0		40-140	%	01-MAY-20	06-MAY-20	R5077416
Surrogate: 13C12-1,2,3,7,8-PeCDF	69.0		40-140	%	01-MAY-20	06-MAY-20	R5077416
Surrogate: 13C12-2,3,4,7,8-PeCDF	71.0		40-140	%	01-MAY-20	06-MAY-20	R5077416
Surrogate: 13C12-1,2,3,4,7,8-HxCDF	62.0		40-140	%	01-MAY-20	06-MAY-20	R5077416
Surrogate: 13C12-1,2,3,6,7,8-HxCDF	62.0		40-140	%	01-MAY-20	06-MAY-20	R5077416
Surrogate: 13C12-2,3,4,6,7,8-HxCDF	66.0		40-140	%	01-MAY-20	06-MAY-20	R5077416
Surrogate: 13C12-1,2,3,7,8,9-HxCDF	63.0		40-140	%	01-MAY-20	06-MAY-20	R5077416
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF	61.0		40-140	%	01-MAY-20	06-MAY-20	R5077416
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF	72.0		40-140	%	01-MAY-20	06-MAY-20	R5077416
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)	69.0		40-140	%	01-MAY-20	06-MAY-20	R5077416
Lower Bound PCDD/F TEQ (WHO 2005)	6.02			pg/L	01-MAY-20	06-MAY-20	R5077416
Mid Point PCDD/F TEQ (WHO 2005)	8.73			pg/L	01-MAY-20	06-MAY-20	R5077416
Upper Bound PCDD/F TEQ (WHO 2005)	9.05			pg/L	01-MAY-20	06-MAY-20	R5077416
Routine Potable Water							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2439087-1 101							
Sampled By: TRAVIS GALLUP on 21-APR-20 @ 14:30							
Matrix: WATER							
Chloride in Water by IC							
Chloride (Cl)	126	DLHC	2.5	mg/L		22-APR-20	R5064841
Fluoride in Water by IC							
Fluoride (F)	0.53	DLHC	0.10	mg/L		22-APR-20	R5064841
Ion Balance Calculation							
Ion Balance	114	BL:INT		%		30-APR-20	
TDS (Calculated)	3010			mg/L		30-APR-20	
Hardness (as CaCO3)	2300			mg/L		30-APR-20	
Nitrate in Water by IC							
Nitrate (as N)	<0.10	DLHC	0.10	mg/L		22-APR-20	R5064841
Nitrate+Nitrite							
Nitrate and Nitrite (as N)	<0.11		0.11	mg/L		26-APR-20	
Nitrite in Water by IC							
Nitrite (as N)	<0.050	DLHC	0.050	mg/L		22-APR-20	R5064841
Sulfate in Water by IC							
Sulfate (SO4)	1530	DLHC	1.5	mg/L		22-APR-20	R5064841
Turbidity							
Turbidity	>4000		0.10	NTU		23-APR-20	R5063136
pH, Conductivity and Total Alkalinity							
pH	7.79		0.10	pH		23-APR-20	R5062045
Conductivity (EC)	3040		2.0	uS/cm		23-APR-20	R5062045
Bicarbonate (HCO3)	644		5.0	mg/L		23-APR-20	R5062045
Carbonate (CO3)	<5.0		5.0	mg/L		23-APR-20	R5062045
Hydroxide (OH)	<5.0		5.0	mg/L		23-APR-20	R5062045
Alkalinity, Total (as CaCO3)	528		2.0	mg/L		23-APR-20	R5062045

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
BL:INT	Balance Reviewed: Interference Or Non-Measured Component
DLCI	Detection Limit Raised: Chromatographic Interference due to co-elution.
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).
J,R	The analyte was detected below the calibrated range but above the EDL, and the ion abundance ratio(s) did not meet the acceptance criteria. Value is an estimated maximum.
M,J	A peak has been manually integrated, and the analyte was detected below the calibrated range but above the EDL.
M,J,R	A peak has been manually integrated, the analyte was detected below the calibrated range but above the EDL, and the ion abundance ratio(s) did not meet the acceptance criteria. Value is an estimated maximum.
M,U	A peak has been manually integrated, and the analyte was not detected above the EDL.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRV	Reported Result Verified By Repeat Analysis
[J]	The analyte was detected below the calibrated range but above the EDL.
[U]	The analyte was not detected above the EDL.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
BTXS-HS-MS-CL	Water	BTEX and Styrene	EPA 8260C/5021A
The water sample, with added reagents, is heated in a sealed vial to equilibrium. The headspace from the vial is transferred into a gas chromatograph. BTEX Target compound concentrations are measured using mass spectrometry detection.			
CL-IC-N-CL	Water	Chloride in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
DX-R511-HRMS-BU	Water	Dioxins and Furans	USEPA 1613B
F-IC-N-CL	Water	Fluoride in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
F1-HS-FID-CL	Water	F1 (C6-C10)	EPA 5021A / CWS PHC Tier 1
This analysis is based on the "Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil - Tier 1 Method, Canadian Council of Ministers of the Environment, December 2001." For F1 (C6-C10) analysis, the water sample, with added reagents, is heated in a sealed vial to equilibrium. The headspace from the vial is transferred into a GC-FID for analysis.			
F2-4-ME-FID-CL	Water	CCME F2-4 Hydrocarbons	EPA 3511/ CCME PHC CWS GC-FID
Water samples are spiked with 2-BBTF surrogate, and extracted by reciprocal action shaker for 30 minutes using a single micro-extraction with hexane. Instrumental analysis is by GC-FID, as per the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil, Tier 1 Method, CCME, December 2001.			
HG-T-CVAA-CL	Water	Total Mercury in Water by CVAAS	EPA 1631E (mod)
Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.			
IONBALANCE-CL	Water	Ion Balance Calculation	APHA 1030E
MET-T-CCMS-CL	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020A (mod)
Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.			
Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.			
N2N3-CALC-CL	Water	Nitrate+Nitrite	CALCULATION
NO2-IC-N-CL	Water	Nitrite in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
NO3-IC-N-CL	Water	Nitrate in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
PH/EC/ALK-CL	Water	pH, Conductivity and Total Alkalinity	APHA 4500H,2510,2320
All samples analyzed by this method for pH will have exceeded the 15 minute recommended hold time from time of sampling (field analysis is recommended for pH where highly accurate results are needed)			
pH measurement is determined from the activity of the hydrogen ions using a hydrogen electrode and a reference electrode.			
Alkalinity measurement is based on the sample's capacity to neutralize acid			

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
Conductivity measurement is based on the sample's capacity to convey an electric current			
SO4-IC-N-CL	Water	Sulfate in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
TURBIDITY-CL	Water	Turbidity	APHA 2130 B-Nephelometer
This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.			
XYLENES-CALC-CL	Water	Sum of Xylene Isomer Concentrations	CALCULATION
Calculation of Total Xylenes			
Total Xylenes is the sum of the concentrations of the ortho, meta, and para Xylene isomers. Results below detection limit (DL) are treated as zero. The DL for Total Xylenes is set to a value no less than the square root of the sum of the squares of the DLs of the individual Xylenes.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
BU	ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA
CL	ALS ENVIRONMENTAL - CALGARY, ALBERTA, CANADA

Chain of Custody Numbers:

17-813441

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2439087

Report Date: 13-MAY-20

Page 1 of 7

Client: WESTCAN RECYCLERS
 8919 68 STREET SE
 CALGARY AB T2C 2X6

Contact: Travis Gallup

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTXS-HS-MS-CL		Water						
Batch	R5061646							
WG3312458-6	LCS							
Benzene			98.9		%		70-130	23-APR-20
Toluene			100.2		%		70-130	23-APR-20
Ethylbenzene			94.2		%		70-130	23-APR-20
o-Xylene			94.1		%		70-130	23-APR-20
m+p-Xylene			92.5		%		70-130	23-APR-20
WG3312458-5	MB							
Benzene			<0.00050		mg/L		0.0005	23-APR-20
Toluene			<0.00050		mg/L		0.0005	23-APR-20
Ethylbenzene			<0.00050		mg/L		0.0005	23-APR-20
o-Xylene			<0.00050		mg/L		0.0005	23-APR-20
m+p-Xylene			<0.00050		mg/L		0.0005	23-APR-20
Surrogate: 4-Bromofluorobenzene			98.4		%		70-130	23-APR-20
Surrogate: 1,4-Difluorobenzene			112.8		%		70-130	23-APR-20
CL-IC-N-CL		Water						
Batch	R5064841							
WG3313465-14	LCS							
Chloride (Cl)			100.7		%		90-110	22-APR-20
WG3313465-13	MB							
Chloride (Cl)			<0.50		mg/L		0.5	22-APR-20
DX-R511-HRMS-BU		Water						
Batch	R5077416							
WG3313660-2	LCS							
2,3,7,8-TCDD			82.0		%		50-150	05-MAY-20
1,2,3,7,8-PeCDD			107.0		%		50-150	05-MAY-20
1,2,3,4,7,8-HxCDD			106.0		%		50-150	05-MAY-20
1,2,3,6,7,8-HxCDD			95.0		%		50-150	05-MAY-20
1,2,3,7,8,9-HxCDD			107.0		%		50-150	05-MAY-20
1,2,3,4,6,7,8-HpCDD			92.0		%		50-150	05-MAY-20
OCDD			96.0		%		50-150	05-MAY-20
2,3,7,8-TCDF			90.0		%		50-150	05-MAY-20
1,2,3,7,8-PeCDF			90.0		%		50-150	05-MAY-20
2,3,4,7,8-PeCDF			86.0		%		50-150	05-MAY-20
1,2,3,4,7,8-HxCDF			94.0		%		50-150	05-MAY-20
1,2,3,6,7,8-HxCDF			97.0		%		50-150	05-MAY-20
2,3,4,6,7,8-HxCDF			96.0		%		50-150	05-MAY-20



Quality Control Report

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DX-R511-HRMS-BU		Water						
Batch	R5077416							
WG3313660-2 LCS								
1,2,3,7,8,9-HxCDF			99.0		%		50-150	05-MAY-20
1,2,3,4,6,7,8-HpCDF			96.0		%		50-150	05-MAY-20
1,2,3,4,7,8,9-HpCDF			90.0		%		50-150	05-MAY-20
OCDF			103.0		%		50-150	05-MAY-20
WG3313660-1 MB								
2,3,7,8-TCDD			<0.23	[U]	pg/L		0.23	05-MAY-20
1,2,3,7,8-PeCDD			<0.28	[U]	pg/L		0.28	05-MAY-20
1,2,3,4,7,8-HxCDD			<0.25	M,U	pg/L		0.25	05-MAY-20
1,2,3,6,7,8-HxCDD			0.30	M,J,R	pg/L		0.25	05-MAY-20
1,2,3,7,8,9-HxCDD			0.54	M,J,R	pg/L		0.25	05-MAY-20
1,2,3,4,6,7,8-HpCDD			<0.67	M,U	pg/L		0.67	05-MAY-20
OCDD			2.30	M,J	pg/L		0.58	05-MAY-20
2,3,7,8-TCDF			<0.20	[U]	pg/L		0.2	05-MAY-20
1,2,3,7,8-PeCDF			<0.22	[U]	pg/L		0.22	05-MAY-20
2,3,4,7,8-PeCDF			<0.19	[U]	pg/L		0.19	05-MAY-20
1,2,3,4,7,8-HxCDF			0.25	M,J,R	pg/L		0.21	05-MAY-20
1,2,3,6,7,8-HxCDF			0.34	M,J,R	pg/L		0.2	05-MAY-20
2,3,4,6,7,8-HxCDF			0.36	M,J,R	pg/L		0.21	05-MAY-20
1,2,3,7,8,9-HxCDF			0.75	M,J,R	pg/L		0.29	05-MAY-20
1,2,3,4,6,7,8-HpCDF			<0.24	[U]	pg/L		0.24	05-MAY-20
1,2,3,4,7,8,9-HpCDF			<0.31	[U]	pg/L		0.31	05-MAY-20
OCDF			<0.53	[U]	pg/L		0.53	05-MAY-20
Total-TCDD			<0.23	[U]	pg/L		0.23	05-MAY-20
Total-PeCDD			<0.28	[U]	pg/L		0.28	05-MAY-20
Total-HxCDD			<0.25	[U]	pg/L		0.25	05-MAY-20
Total-HpCDD			<0.67	[U]	pg/L		0.67	05-MAY-20
Total-TCDF			<0.20	[U]	pg/L		0.2	05-MAY-20
Total-PeCDF			<0.22	[U]	pg/L		0.22	05-MAY-20
Total-HxCDF			<0.29	[U]	pg/L		0.29	05-MAY-20
Total-HpCDF			<0.31	[U]	pg/L		0.31	05-MAY-20
Surrogate: 13C12-2,3,7,8-TCDD			75.0		%		40-140	05-MAY-20
Surrogate: 13C12-1,2,3,7,8-PeCDD			67.0		%		40-140	05-MAY-20
Surrogate: 13C12-1,2,3,4,7,8-HxCDD			73.0		%		40-140	05-MAY-20
Surrogate: 13C12-1,2,3,6,7,8-HxCDD			75.0		%		40-140	05-MAY-20



Quality Control Report

Workorder: L2439087

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DX-R511-HRMS-BU		Water						
Batch R5077416								
WG3313660-1 MB								
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDD			80.0		%		40-140	05-MAY-20
Surrogate: 13C12-OCDD			40.0		%		40-140	05-MAY-20
Surrogate: 13C12-2,3,7,8-TCDF			70.0		%		40-140	05-MAY-20
Surrogate: 13C12-1,2,3,7,8-PeCDF			72.0		%		40-140	05-MAY-20
Surrogate: 13C12-2,3,4,7,8-PeCDF			70.0		%		40-140	05-MAY-20
Surrogate: 13C12-1,2,3,4,7,8-HxCDF			77.0		%		40-140	05-MAY-20
Surrogate: 13C12-1,2,3,6,7,8-HxCDF			78.0		%		40-140	05-MAY-20
Surrogate: 13C12-2,3,4,6,7,8-HxCDF			80.0		%		40-140	05-MAY-20
Surrogate: 13C12-1,2,3,7,8,9-HxCDF			75.0		%		40-140	05-MAY-20
Surrogate: 13C12-1,2,3,4,6,7,8-HpCDF			69.0		%		40-140	05-MAY-20
Surrogate: 13C12-1,2,3,4,7,8,9-HpCDF			77.0		%		40-140	05-MAY-20
Surrogate: 37Cl4-2,3,7,8-TCDD (Cleanup)			79.0		%		40-140	05-MAY-20
F-IC-N-CL		Water						
Batch R5064841								
WG3313465-14 LCS								
Fluoride (F)			99.6		%		90-110	22-APR-20
WG3313465-13 MB								
Fluoride (F)			<0.020		mg/L		0.02	22-APR-20
F1-HS-FID-CL		Water						
Batch R5061657								
WG3312483-5 LCS								
F1(C6-C10)			74.3		%		70-130	23-APR-20
WG3312483-4 MB								
F1(C6-C10)			<0.10		mg/L		0.1	23-APR-20
Surrogate: 3,4-Dichlorotoluene			116.3		%		70-130	23-APR-20
F2-4-ME-FID-CL		Water						
Batch R5059139								
WG3311784-2 LCS								
F2: (C10-C16)			81.0		%		70-130	24-APR-20
WG3311784-1 MB								
F2: (C10-C16)			<0.10		mg/L		0.1	24-APR-20
Surrogate: 2-Bromobenzotrifluoride			86.8		%		60-140	24-APR-20
HG-T-CVAA-CL		Water						



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAA-CL								
	Water							
Batch	R5069661							
WG3315222-6	LCS							
Mercury (Hg)-Total			103.0		%		80-120	29-APR-20
WG3315222-5	MB							
Mercury (Hg)-Total			<0.000005C		mg/L		0.000005	29-APR-20
MET-T-CCMS-CL								
	Water							
Batch	R5069664							
WG3315272-2	LCS	TMRM						
Aluminum (Al)-Total			101.5		%		80-120	29-APR-20
Antimony (Sb)-Total			103.2		%		80-120	29-APR-20
Arsenic (As)-Total			101.1		%		80-120	29-APR-20
Barium (Ba)-Total			98.5		%		80-120	29-APR-20
Beryllium (Be)-Total			97.6		%		80-120	29-APR-20
Boron (B)-Total			91.2		%		80-120	29-APR-20
Cadmium (Cd)-Total			98.6		%		80-120	29-APR-20
Calcium (Ca)-Total			97.7		%		80-120	29-APR-20
Chromium (Cr)-Total			99.5		%		80-120	29-APR-20
Cobalt (Co)-Total			96.8		%		80-120	29-APR-20
Copper (Cu)-Total			95.5		%		80-120	29-APR-20
Iron (Fe)-Total			96.8		%		80-120	29-APR-20
Lead (Pb)-Total			97.1		%		80-120	29-APR-20
Lithium (Li)-Total			90.6		%		80-120	29-APR-20
Magnesium (Mg)-Total			101.1		%		80-120	29-APR-20
Manganese (Mn)-Total			99.0		%		80-120	29-APR-20
Molybdenum (Mo)-Total			104.1		%		80-120	29-APR-20
Nickel (Ni)-Total			95.4		%		80-120	29-APR-20
Potassium (K)-Total			99.7		%		80-120	29-APR-20
Selenium (Se)-Total			98.2		%		80-120	29-APR-20
Silver (Ag)-Total			98.0		%		80-120	29-APR-20
Sodium (Na)-Total			94.0		%		80-120	29-APR-20
Thallium (Tl)-Total			97.9		%		80-120	29-APR-20
Tin (Sn)-Total			98.4		%		80-120	29-APR-20
Titanium (Ti)-Total			95.1		%		80-120	29-APR-20
Uranium (U)-Total			95.2		%		80-120	29-APR-20
Vanadium (V)-Total			98.7		%		80-120	29-APR-20
Zinc (Zn)-Total			97.1		%		80-120	29-APR-20
WG3315272-1	MB							



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-CL								
	Water							
Batch	R5069664							
WG3315272-1	MB							
Aluminum (Al)-Total			<0.0030		mg/L		0.003	29-APR-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	29-APR-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	29-APR-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	29-APR-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	29-APR-20
Boron (B)-Total			<0.010		mg/L		0.01	29-APR-20
Cadmium (Cd)-Total			<0.000005C		mg/L		0.000005	29-APR-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	29-APR-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	29-APR-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	29-APR-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	29-APR-20
Iron (Fe)-Total			<0.010		mg/L		0.01	29-APR-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	29-APR-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	29-APR-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	29-APR-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	29-APR-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	29-APR-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	29-APR-20
Potassium (K)-Total			<0.050		mg/L		0.05	29-APR-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	29-APR-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	29-APR-20
Sodium (Na)-Total			<0.050		mg/L		0.05	29-APR-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	29-APR-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	29-APR-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	29-APR-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	29-APR-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	29-APR-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	29-APR-20
NO2-IC-N-CL								
	Water							
Batch	R5064841							
WG3313465-14	LCS							
Nitrite (as N)			103.3		%		90-110	22-APR-20
WG3313465-13	MB							
Nitrite (as N)			<0.010		mg/L		0.01	22-APR-20



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-IC-N-CL								
	Water							
Batch	R5064841							
WG3313465-14	LCS							
Nitrate (as N)			103.3		%		90-110	22-APR-20
WG3313465-13	MB							
Nitrate (as N)			<0.020		mg/L		0.02	22-APR-20
PH/EC/ALK-CL								
	Water							
Batch	R5062045							
WG3312724-8	LCS							
Conductivity (EC)			100.2		%		90-110	23-APR-20
Alkalinity, Total (as CaCO3)			97.6		%		85-115	23-APR-20
WG3312724-7	MB							
Conductivity (EC)			<2.0		uS/cm		2	23-APR-20
Bicarbonate (HCO3)			<5.0		mg/L		5	23-APR-20
Carbonate (CO3)			<5.0		mg/L		5	23-APR-20
Hydroxide (OH)			<5.0		mg/L		5	23-APR-20
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	23-APR-20
SO4-IC-N-CL								
	Water							
Batch	R5064841							
WG3313465-14	LCS							
Sulfate (SO4)			103.1		%		90-110	22-APR-20
WG3313465-13	MB							
Sulfate (SO4)			<0.30		mg/L		0.3	22-APR-20
TURBIDITY-CL								
	Water							
Batch	R5063136							
WG3312407-2	LCS							
Turbidity			104.5		%		85-115	23-APR-20
WG3312407-1	MB							
Turbidity			<0.10		NTU		0.1	23-APR-20

Quality Control Report

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
M,J	A peak has been manually integrated, and the analyte was detected below the calibrated range but above the EDL.
M,J,R	A peak has been manually integrated, the analyte was detected below the calibrated range but above the EDL, and the ion abundance ratio(s) did not meet the acceptance criteria. Value is an estimated maximum.
M,U	A peak has been manually integrated, and the analyte was not detected above the EDL.
[U]	The analyte was not detected above the EDL.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

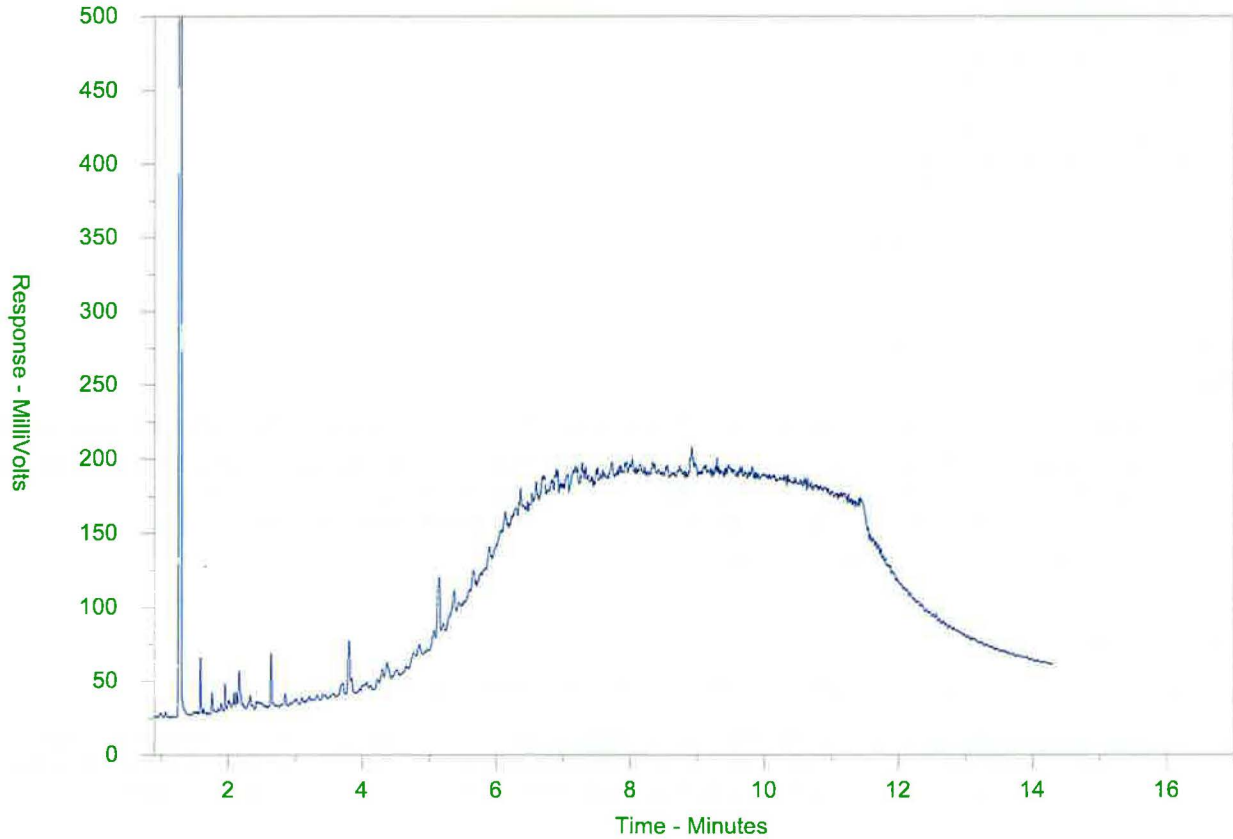
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2439087-1
 Client Sample ID: 101



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34	nC50	
174°C	287°C		481°C	575°C	
346°F	549°F		898°F	1067°F	
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →		
← Diesel/ Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.



L2439087-COFC

Report To Contact and company name below will appear on the final report		Report Format / Distribution			Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)																																																																	
Company: <u>Westcan Recyclers</u>		Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)			Regular [R] <input checked="" type="checkbox"/> Standard TAT if received by 3 pm - business days - no surcharges apply																																																																	
Contact: <u>Travis Gallup</u>		Quality Control (QC) Report with Report <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PRIORITY (Business Days) 4 day (P4-20%) <input type="checkbox"/> 3 day (P3-25%) <input type="checkbox"/> 2 day (P2-50%) <input type="checkbox"/>		EMERGENCY 1 Business day [E - 100%] <input type="checkbox"/> Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] <input type="checkbox"/>																																																															
Phone: <u>403-279-6743</u>		<input type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked																																																																				
Company address below will appear on the final report		Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm																																																																	
Street: <u>8919 68st SE</u>		Email 1 or Fax: <u>travis@westcanrecyclers.com</u>			For tests that can not be performed according to the service level selected, you will be contacted.																																																																	
City/Province: <u>Calgary, AB</u>		Email 2			Analysis Request Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																																																																	
Postal Code: <u>T2C 2X6</u>		Email 3																																																																				
Invoice To: Same as Report To <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Invoice Distribution			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50px;">NUMBER OF CONTAINERS</td> <td style="width: 100px;">Total metals</td> <td style="width: 100px;">Total mercury</td> <td style="width: 100px;">General water quality</td> <td style="width: 100px;">Dioxins & Furans</td> <td style="width: 100px;">BTX Fl, F2</td> <td rowspan="10" style="width: 50px; text-align: center; vertical-align: middle;">SAMPLES ON HOLD</td> <td rowspan="10" style="width: 50px; text-align: center; vertical-align: middle;">SUSPECTED HAZARD (see Special Instructions)</td> </tr> <tr> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				NUMBER OF CONTAINERS	Total metals	Total mercury	General water quality	Dioxins & Furans	BTX Fl, F2	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)	X								X							X							X							X																								
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Company:		Email 1 or Fax: <u>travis@westcanrecyclers.com</u>																																																																				
Contact:		Email 2																																																																				
Project Information		Oil and Gas Required Fields (client use)																																																																				
ALS Account # / Quote #:		AFE/Cost Center: PO#																																																																				
Job #: <u>R.C.</u>		Major/Minor Code: Routing Code:																																																																				
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LSD:		Location:																																																																				
ALS Lab Work Order # (lab use only): <u>047</u>		ALS Contact: <u>Zach</u>	Sampler: <u>Travis Gallup</u>																																																																			
ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)		Date (dd-mmm-yy)	Time (hh:mm)	Sample Type																																																																	
	<u>101-A</u>		<u>21/04/20</u>	<u>2:30pm</u>	<u>Water</u>	X																																																																
	<u>101-B</u>		↓	↓	↓	X																																																																
	<u>101-C</u>		↓	↓	↓	X																																																																
	<u>101-D</u>		↓	↓	↓	X																																																																
	<u>101-E (2x40ml, 2x100ml)</u>		↓	↓	↓	X																																																																
Drinking Water (DW) Samples¹ (client use)		Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)			SAMPLE CONDITION AS RECEIVED (lab use only)																																																																	
Are samples taken from a Regulated DW System? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/>																																																																	
Are samples for human consumption/ use? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					Ice Packs <input type="checkbox"/> Ice Cubes <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>																																																																	
					Cooling Initiated <input type="checkbox"/>																																																																	
					INITIAL COOLER TEMPERATURES °C		FINAL COOLER TEMPERATURES °C																																																															
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)																																																																	
Released by: <u>[Signature]</u>	Date: <u>Apr 21 2020</u>	Time:	Received by: <u>[Signature]</u>	Date: <u>5/12</u>	Time: <u>3:30pm</u>	Received by: <u>[Signature]</u>	Date:	Time:																																																														

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.







Results Summary L2439087

Job Reference R.C.
Report To Travis Gallup, WESTCAN RECYCLERS
Date Received 21-Apr-2020 15:25
Report Date 30-Apr-2020 15:59
Report Version 1

Client Sample ID	*brackets = hardness equation				101	
Date Sampled					21-Apr-2020	
Time Sampled					14:30	
ALS Sample ID					L2439087-1	
Parameter	Lowest Detection Limit	Units	Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health	Alberta Surface water guidelines table 1	Alberta Tier 1 guidelines (for remediation) table 2,B-4,C-11	Water
Physical Tests (Water)						
Turbidity	0.10	NTU		<10% background	500	>4000
background between 509 to 2010 according to alberta irrigation 2024 progress report						
Anions and Nutrients (Water)						
Alkalinity, Total (as CaCO ₃)	2.0	mg/L		20		528
Bicarbonate (HCO ₃)	5.0	mg/L				644
Carbonate (CO ₃)	5.0	mg/L				<5.0
Chloride (Cl)	2.5	mg/L			120	126
Conductivity (EC)	2.0	uS/cm				3040
Fluoride (F)	0.10	mg/L			1.5	0.53
Hydroxide (OH)	5.0	mg/L				<5.0
Nitrate and Nitrite (as N)	0.11	mg/L				<0.11
Nitrate (as N)	0.10	mg/L			3	<0.10
Nitrite (as N)	0.050	mg/L			1	<0.050
pH	0.10	pH		6.5-9	6-8.5	7.79
Sulfate (SO ₄)	1.5	mg/L			500	1530
Total Metals (Water)						
Aluminum (Al)-Total	0.015	mg/L		(0.1)		9.44
Antimony (Sb)-Total	0.00050	mg/L			0.006	0.0104
Arsenic (As)-Total	0.00050	mg/L		0.05	0.005	0.0320
Barium (Ba)-Total	0.00050	mg/L			1	0.469
Beryllium (Be)-Total	0.00050	mg/L				0.00055
Boron (B)-Total	0.050	mg/L		1.5	1.5	6.76
Cadmium (Cd)-Total	0.000025	mg/L		(0.00037)	0.005	0.00152
Calcium (Ca)-Total	0.25	mg/L				748
Calcium (Ca)-Total	0.25	mg/L				810
Chromium (Cr)-Total	0.00050	mg/L		1	0.05	0.0430
Cobalt (Co)-Total	0.00050	mg/L		(0.0018)		0.0285
Copper (Cu)-Total	0.0025	mg/L		7 (0.062)	0.007	0.102
Iron (Fe)-Total	0.050	mg/L		300	0.3	22.9
Iron (Fe)-Total	0.050	mg/L				24.5
Lead (Pb)-Total	0.00025	mg/L		(0.007)	0.01	0.0651
Lithium (Li)-Total	0.0050	mg/L				0.0501
Magnesium (Mg)-Total	0.025	mg/L				71.7
Magnesium (Mg)-Total	0.025	mg/L				67.0
Manganese (Mn)-Total	0.00050	mg/L			0.05	2.86
Manganese (Mn)-Total	0.00050	mg/L				2.76
Mercury (Hg)-Total	0.0000050	mg/L		0.000005	0.000005	0.0000349
Molybdenum (Mo)-Total	0.00025	mg/L		0.073		0.0114
Nickel (Ni)-Total	0.0025	mg/L		(0.17)		0.0668
Potassium (K)-Total	0.25	mg/L				38.4
Potassium (K)-Total	0.25	mg/L				38.1
Selenium (Se)-Total	0.00025	mg/L		0.002	0.05	0.00155
Silver (Ag)-Total	0.000050	mg/L		0.00025		0.000291
Sodium (Na)-Total	0.25	mg/L				116
Sodium (Na)-Total	0.25	mg/L				124

Results Summary L2439087

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Client Sample ID
 Date Sampled
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 ALS Sample ID

*brackets = hardness equation

Parameter	Lowest Detection Limit	Units	Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health	Alberta Surface water guidelines table 1	Alberta Tier 1 guidelines (for remediation) table 2,B-4,C-11	101 21-Apr-2020 14:30 L2439087-1 Water
Thallium (Tl)-Total	0.000050	mg/L		0.0008		0.000298
Tin (Sn)-Total	0.00050	mg/L				0.00198
Titanium (Ti)-Total	0.0015	mg/L				0.123
Uranium (U)-Total	0.000050	mg/L		0.015	0.015	0.00306
Vanadium (V)-Total	0.0025	mg/L				0.0280
Zinc (Zn)-Total	0.015	mg/L		0.03	0.03	4.86

Volatile Organic Compounds (Water)

Benzene	0.00050	mg/L			0.005	0.00729
Ethylbenzene	0.00050	mg/L			0.0016	0.00168
Toluene	0.00050	mg/L			0.024	0.00550
o-Xylene	0.00080	mg/L				<0.00080
m+p-Xylene	0.0015	mg/L				<0.0015
Xylenes	0.0017	mg/L			0.02	<0.0017
F1(C6-C10)	0.10	mg/L			2.2	0.12
F1-BTEX	0.10	mg/L				0.11
4-Bromofluorobenzene		%				120.5
3,4-Dichlorotoluene		%				94.7
1,4-Difluorobenzene		%				105.8

Hydrocarbons (Water)

F2: (C10-C16)	0.10	mg/L			1.1	0.33
2-Bromobenzotrifluoride		%				88.3

Qualifier Legend

DLHC Detection Limit Raised: Dilution required due to high concentration of test analyte(s).
 DLDS Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
 RRV Reported Result Verified By Repeat Analysis
 DLCI Detection Limit Raised: Chromatographic Interference due to co-elution.

Toxicity equivalency factors

Dioxins and Furans (Water)

Dioxins & furans		pg/L		0.12	
2,3,7,8-TCDD	0.57	pg/L	1		<0.57
1,2,3,7,8-PeCDD	0.64	pg/L	0.5		1.40
1,2,3,4,7,8-HxCDD	0.59	pg/L	0.1		2.23
1,2,3,6,7,8-HxCDD	0.59	pg/L	0.1		9.33
1,2,3,7,8,9-HxCDD	0.59	pg/L	0.1		5.19
1,2,3,4,6,7,8-HpCDD	1.8	pg/L	0.01		268
OCDD	2.8	pg/L	0.001		2130
Total-TCDD	0.57	pg/L			<0.57
2,3,7,8-TCDF	0.64	pg/L	0.1		<0.64
1,2,3,7,8-PeCDF	0.51	pg/L	0.05		<0.51
2,3,4,7,8-PeCDF	0.42	pg/L	0.5		1.50
1,2,3,4,7,8-HxCDF	0.58	pg/L	0.1		1.80
1,2,3,6,7,8-HxCDF	0.58	pg/L	0.1		2.00
1,2,3,7,8,9-HxCDF	0.72	pg/L	0.1		1.30
2,3,4,6,7,8-HxCDF	0.57	pg/L	0.1		4.39

Results Summary L2439087

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Parameter	Lowest Detection Limit	Units	Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health	Alberta Surface water guidelines table 1	Alberta Tier 1 guidelines (for remediation) table 2,B-4,C-11
1,2,3,4,6,7,8-HpCDF	1.2	pg/L	0.01		
1,2,3,4,7,8,9-HpCDF	1.4	pg/L	0.01		
OCDF	1.1	pg/L	0.001		
Total-TCDF	0.64	pg/L			

101
21-Apr-2020
14:30
L2439087-1
Water
54.2
2.8
140
1.95



MILLER THOMSON
AVOCATS | LAWYERS

MILLER THOMSON LLP
COMMERCE PLACE
10155 102 STREET, SUITE 2700
EDMONTON AB T5J 4G8
CANADA

T 780 429 1751
F 780 424 5888

MILLERTHOMSON.COM

July 4, 2022

Sent via E-mail
<publicsubmissions@calgary.ca>

Darin J. Hannaford
Direct Line: 780.429.9714
dhannaford@millerthomson.com

File: 0262576.0001

City Clerk's Office
Ground Floor
Administration Building (Municipal Complex)
313 - 7th Avenue SE
Calgary, Alberta

Dear Sirs/Mesdames:

Re: Council meeting – Combined
Tuesday, July 5, 2022 at 9:30am
Item 11.4.2 – Proposed Bylaw 5C2022

This letter is regarding Agenda Item 11.4.2 for the upcoming City Council meeting tomorrow, July 5, 2022. Our office acts for Westcan Recyclers Ltd. and 644078 Alberta Ltd. (collectively, "**Westcan**"), the parties directly impacted by Item 11.4.2 and the Proposed Bylaw 5C2022 for closure of Westcan's accesses at 8919 68 Street SE.

It is submitted that what has been recommended by the Infrastructure and Planning Committee, being that Council: (1) give three readings to the proposed Bylaw to close Westcan's two main accesses, and to (2) direct Administration to construct an alternative access on to 90 Ave, is improper and premature. There is currently a court-ordered review of the proposed alternative accesses being done by an independent, third party engineer, which is still in progress. This independent review was ordered by the Court of Queen's Bench for the purposes of an ongoing court injunction in favour of Westcan in Court Action No. 2101-09833, which is in place until such time as the Court is satisfied that safe and adequate alternative access has been provided. Importantly, this has yet to be determined by either the independent engineer or the Court. The independent engineer is expecting to complete his report by end of July 2022. A further court appearance is expected to be scheduled shortly thereafter.

Each iteration of previous proposals made by the City for alternative accesses have been shown by Westcan's engineering consultants to be deficient, unsafe and inadequate. In this regard, Westcan's consultants have advised that the final approved proposed design is largely identical to prior drawings and modelling and does not appear to solve any of the previous safety issues raised to the City; namely, that the sweep paths for the access road to the proposed 90 Ave Access road require significant and extended overlap across the centerline in order to avoid having the inside trailer axle(s) fall off the edge of the pavement on the inside of the curve. Further, drivers entering the facility need to know ahead of time that it is necessary for essentially the entire tractor unit to completely cross the centerline

and where. This creates a substantial risk of collision occurring. Moreover, the grade differentials on the final approved proposed design between the proposed accesses at 86 Ave and 90 Ave and the Westcan Site are misleading and inaccurate, and once built, will not be able to safely accommodate Westcan's traffic at the requisite grade slope.

Further, the flow rates noted on the final approved drawings are based on inaccurate and unfounded assumptions. Contrary to what is required by City standards and expressly assumed by the City's experts in their various reports for the proposed accesses, adjacent properties to the Westcan Site are, in fact, not managing and containing their runoff. Rather, all adjacent properties are pumping and draining their water *onto* the Westcan Site, 86 Avenue and 90 Avenue. For the last two weeks, the Westcan Site has essentially been under water (see enclosed Drone Photos). As a result of this water infiltration over this past long-weekend, one of Westcan's cranes, valued at over \$800,000, incurred significant damage.

This drainage situation is especially alarming given that Westcan's direct neighbour to the southwest, Recycle Calgary, has repeatedly caused water quality issues and fire hazard risks from its property, of which the City has been repeatedly advised. In the last 16 months alone, there have been over 10 fires at that facility. When the City attends onsite with water hoses to extinguish the fire(s), that water is dispersed to the neighbouring lands and flows into the City's storm sewers. Westcan has tested the significant water runoff from Recycle Calgary that accumulates on the road and ditch near the Westcan Site, which the City has continuously failed to contain. The level of certain harmful metals such as mercury, lead and arsenic are 6-7 times in excess of the allowable Alberta Tier 1 Guidelines. The level of zinc in the tested water is 160 times higher than the allowable limits, and excessive dioxins, furans and hydrocarbons were also detected. Attached in this regard are communications provided by Westcan to Water Resources in this regard, including Water Test Results from April 2020 and a Statement of Concern. To Westcan's knowledge, Water Resources have not taken any steps to resolve this pressing issue. This contamination is of course an issue that not only impacts Westcan, but also all adjacent landowners and the general public as well, as this contaminated water will flow into the City storm sewers.

Westcan fully expects that the independent engineer appointed pursuant to the court order will likewise find the City's latest iteration of drawings for the proposed alternative accesses to be unsafe and inadequate, just as Westcan's experts did. To proceed with steps to legally close Westcan's main accesses prior to receipt of the independent engineering report, which was specifically ordered by the Court to assist it with determining the safety and adequacy of such proposed alternative access, is improper and an abuse of process.

Further, the process adopted by the City with respect to this bylaw passing has been prejudicial and procedurally unfair to Westcan, particularly in light of:

1. the inadequate notice provided in advance of the Infrastructure and Planning Committee meeting on June 10, 2022 and our client being unavailable to attend on that date due to a prior travel commitment that could not be re-scheduled;
2. the unanswered requests to the City's legal counsel for an adjournment of that meeting, in order for our client to have reasonable opportunity to make written submissions with respect to the passing of the bylaw closure, as had been



represented by the City's legal counsel on multiple occasions throughout the ongoing litigation; and,

3. the inaccuracies contained in Report IP2022-0145, prepared by Infrastructure Services and presented to the Infrastructure and Planning Committee on June 10, 2022. Specifically, the Stakeholder Engagement and Communication (External) section is inaccurate and misleading with respect to the process ordered by the Court [page 412 of the Agenda Package]. This was identified to the Infrastructure and Planning Committee by our office during the June 10, 2022 meeting, but was ultimately disregarded without being meaningfully debated before the council members present and without giving our client the fair opportunity to be heard. This was the basis for the Court setting aside a bylaw and ordering a new public hearing in *Simonelli v. Rocky View (Municipal District) No. 44, 2004 ABQB 45*. We understand that from both the City's legal counsel, and from review of the agenda for the impending Council meeting, that the documents provided to the Infrastructure Planning Committee meeting held June 10, 2022 regarding this proposed bylaw are being included in Council's report for the July 5, 2022 meeting.

If a bylaw is passed, our client will be compelled to apply to the Court of Queen's Bench to have the bylaw repealed, which will be successful for the reasons set out above. Having the bylaw presentation and hearing at this juncture, the eventual effect will undoubtedly be moot in light of the present court order, without any input from Westcan, is an unreasonable proceeding or process.

Accordingly, we request that City Council defer what has been recommended by Infrastructure Services Special Planning Committee until such time that this matter has been determined by the Court.

Alternatively, we submit that the proposed Bylaw be amended, such that the closing of Westcan's main accesses be subject to the Court's determination of the safety and adequacy of the City's proposed alternative accesses, pursuant to the ongoing court injunction order.

Given the significance of this issue to our client, and the court-ordered process in place, we kindly request an opportunity to make an oral presentation before City Council on July 5, 2022 to speak to this agenda item.

Yours truly,

MILLER THOMSON LLP

Per:


For: Darin J. Hanraford
MJP/mjp

c. M. Preston (via Email)





JUNE 15 2022 5pm

68 Street North Drain
Floods at 86th



Westcan 86 Ave Access Overland Water Floskid

Westcan 86
Avenue Access

JUNE 15 2022 5pm

CONTAMINATED
RUNOFF FROM
ADJACENT PROPERTY



Recycle Calgary Overland Drainage

SWMR-01 Overland Drainage IFC June 25 2020



FLOSKID/RECYCLE CALGARY
OVERLAND DRAINAGE



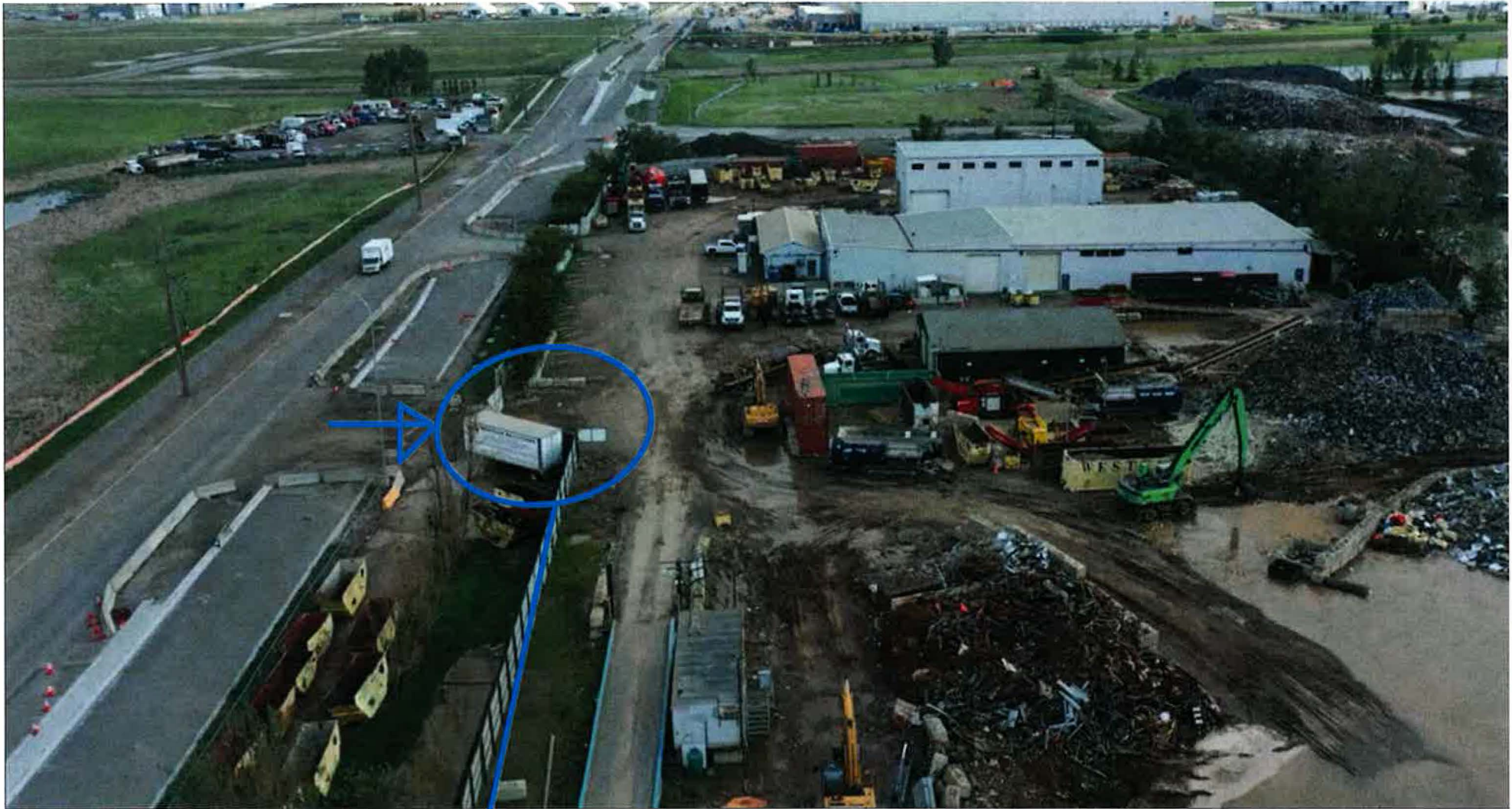
WESTCAN PROPOSED 90 Avenue Access



WESTCAN Facility is flooded AND BARELY OPERABLE while all adjacent facilities have minimal Water and have Storm Water containment onsite.



**WESTCAN PROPOSED MAIN 90 AVENUE
ACCESS CLOSING 68TH STREET
ACCESSES WHICH ARE THE ONLY
ACCESSES THAT DON'T FLOOD**



WATER RUNOFF FROM 68 STREET