

# **APPENDIX E**

Surface Water Quality Sampling

- E-1 Surface Water Quality Sampling Protocol
- **E-2 Laboratory Results**
- E-3 In Situ Measurements





## E-1 Surface Water Quality Sampling Protocol





DATE June 12, 2012 Revision 1 April 25, 2013 **PROJECT No.** 12-1151-0155

- TO Jim Delaney Covanta Durham York Renewable Energy L.P.
- CC Jeff Bedard and Janice Campbell Courtice Power Partners; and Terry Winhold Golder Associates

FROM Steve Auger

EMAIL Steve\_Auger@golder.com

## DURHAM-YORK ENERGY CENTER SURFACE WATER SAMPLING PROTOCOL DURING CONSTRUCTION PERIOD – Starting June 2012 to approximately May 2014

## 1.0 INTRODUCTION

This memorandum outlines the Surface Water Sampling protocol for the on and off-site sampling activities for the Durham-York Energy Center ('the Site') during construction activities in support of the overall Groundwater and Surface Water Sampling Monitoring Plan as per Condition 20 of the Site's Environmental Assessment Notice of Approval. The Site Plan Agreement was executed with the Corporation of the Municipality of Clarington and Regional Municipality of Durham on January 24, 2012. Since then, Site construction activities are underway. Operation for the facility is scheduled to commence in May, 2014. Golder Associates Ltd. ('Golder') performed the initial site reconnaissance for this program on May 29, 2012. Covanta Durham York Renewable Energy Limited ('Covanta') commissioned Golder to carry-out this program on May 25, 2012.

## 2.0 SURFACE WATER SAMPLING

The surface water sampling stations (SWM-E-IN, SWM-E-OUT, SWM-W-IN SWM-W-OUT, and SW1 to SW4) for all on and off-site efforts are shown on Figure 1.

## Frequency

At least one inter-event (dry period) surface water sampling grab will occur per season (at minimum, approximately 48 hours after a significant rainfall event of 5 mm or greater). Two more rainfall-runoff sampling grabs will occur for rainfall events of approximately 5 mm or greater.

The surface water sampling grabs will be initiated after direction is received from Covanta. The decision will occur after Covanta consults with the on-site contractor, Courtice Power Partners ('CPP', and Golder.

## Sampling Grabs and In Situ Measurements

 Four (4), 500 mL sampling bottles will be filled at each location with surface water grabs. Two (2) of the sampling bottles from each location will be submitted to the laboratory for Total Suspended Solids ('TSS')

Golder Associates Ltd.

Tel: Fax: www.golder.com

Golder Associates: Operations in Africa, Asia, Australasia, Europe, North America and South America

and Turbidity analyses. The bottles submitted will be labelled with the appropriate analysis identified, the date and time of sampling, sampling grab location and Golder project number. An additional two (2) bottles will act as duplicates and be stored off-site at the local Golder-Whitby office until lab results are received, reviewed and discussed with Covanta. The duplicate samples will be discarded every season once this review and follow-up discussion is complete. If there is any question or concern regarding the initial laboratory results, the duplicate samples will be submitted to the laboratory for additional analysis after Covanta provides consent for this additional expense.

 In situ measurements for pH, temperature and conductivity will also be taken by Golder staff when on-site. The instrument used for these measurements will be calibrated before each use, to ensure accurate results are provided.

## **On-Site Stormwater Management Ponds**

Grab samples will be taken during rainfall-runoff event periods at the inlet and outlet of the East and West stormwater management ('SWM') Ponds.

## Rainfall-Runoff-Discharge Sampling

Every reasonable effort, while ensuring safety of the Golder staff, will be taken to sample during a significant rainfall-runoff event (approximately 5 mm or greater of total rainfall) after Golder receives direction to proceed from Covanta.

Grab samples at the inlet and outlet of the SWM Ponds will be taken during the rising and falling limbs of the inflow and outflow to and from these SWM Ponds, respectively. The coordination of these sample grabs will be based on experience and the specific storm characteristics (e.g., intensity, duration, total volume) and Site conditions (e.g., antecedent conditions).

## **Controlled Discharge Sampling**

During a controlled pump-out sampling scenario, the East and West SWM Pond outlet stations, along with the upstream and downstream receiving swale (SW1 and SW2) and Tooley Creek grabs will be performed (at the very least) following a significant rainfall event of approximately 5 mm or greater. Considering this 'controlled' sampling scenario, it is not anticipated that inflow conditions at the SWM-E-IN and SWM-W-IN sampling locations will be suitable for grab samples. However, if there is still reasonable inflow into the ponds during these controlled discharge events, grab samples will also be taken at these locations.

## Off-Site Receiving Swale and Tooley Creek

Grab sampling at the upstream and downstream receiving swale locations (SW1 and SW2), along with the upstream and downstream Tooley Creek stations (SW3 and SW4), will occur after all on-site sampling is complete. These samples will be taken in numerical sequence.

The following general good practices for surface water grab sampling will also be followed by Golder staff.

## Grab Sampling Technique

Surface Water sampling will occur via a grab sample from identified, consistent sampling locations that are
considered representative of 'well-mixed' surface water conditions at the sampling station. Typically, these
grabs will be taken in the centre-line zone of the receiving swale or creek, or the centre of the inlet or outlet
location for the SWM Ponds. These samples should be grabbed from depths slightly below the surface of
the water, is the water depths at the time of sampling is accommodating (Burton and Pitt, 2002).



 Care must be taken to not to disturb the substrate at the sampling station, to avoid any increase in TSS or Turbidity measurements while sampling efforts occur. If depths are too shallow, every effort will be taken for a 'well-mixed' sample, while avoiding any disturbance (e.g., shallow sampling scoops using control bottle).

## Field Forms and Reporting

- Golder has developed a surface water sampling field form that should be filled out in it's entirety for each station during the sampling effort (Attachment 1). Along with the recorded *in situ* measurements, visual observations will be made during the sampling periods.
- A technical memorandum will be prepared each season, outlining the surface water sampling results along with a summary of the Erosion and Sediment Control ('E&SC') weekly reviews. This memo will also highlight any additional E&SC measures recommended for consideration, if there are any concerns with surface water impacts off-site based on the surface water sampling results and/or the E&SC inspection reviews.

## Site Photographic Record

A photographic record of conditions at the eight surface water quality sampling locations and other notable view points will developed by Golder to illustrate study area conditions during the surface water sampling visits.

## Sample Submission to Laboratory

- Grab samples will be packaged in ice and sent to the laboratory for analysis immediately after the sampling event. Approximately two (2) bags of ice will be required to fill the cooler box provided with the bottles. Ice bags should entirely surround the sample bottles by being placed on the bottom of the cooler below the sample bottles, as well as between, on all sides and above the sample bottles. If the temperature of the bottles is below 10 °C when it is received at the laboratory, the analysis results are less reliable and this will be noted in the laboratory results.
- Golder will follow the chain-of-custody protocol from the laboratory of choice, and provide a copy of the grab sample set exchange with the laboratory to Covanta for their records.
- When analytical results are complete, they will be forwarded via e-mail to the Golder Surface Water Certified Environmental Practitioner ('CEP').

## 3.0 HEALTH AND SAFETY

## Site Training and Communication

All Golder staff involved with the Site's Surface Water Sampling program will receive Health and Safety orientation from CPP. As part of the training requirement, Golder staff will ensure both Workplace Hazardous Materials Information System ('WHMIS') and Fall Protection Awareness training/qualifications are current.

Upon arrival to the Site, Golder staff must back vehicles safely into a parking spot in the eastern control area near the contractors and consultants offices. Golder staff must check in with the CPP Environmental Monitor and Inspector (EMI) or Janice Campbell (CPP Health and Safety Coordinator) for a Health and Safety briefing outlining the specific Site activities and notable hazards for the day. A sign-in sheet within the CPP training must also be filled. Upon departure, a check-out confirmation with the CPP representative originally contacted, along with signing out must also occur.

Jim Delaney or Dave Haldenby (Covanta) will also be informed of each site visit by the Golder Surface Water CEP or designate ahead of the Golder team's arrival.



## Golder Health and Safety Environment Plan

The Golder staff will be following a separate Health and Safety Environment Plan ('HaESP'), that outlines the risks and preventative strategies to ensure safety on and off Site (Attachment 2). The appropriate Health and Safety personal protection equipment for the on and off-site work include a construction hat, goggles, steel toed construction boots (while on-site), and waders for the off-site sampling work in Tooley Creek at stations SW3 and SW4.

For the surface water sampling efforts, a check-in and out contact will also be made with the Golder project manager or alternative Health & Safety point of contact for the site visit.

## CN Railway Line

There are two sampling stations off-site (SW1 and SW2) that are located north of and in close proximity to the CN Railway line as shown on Figure 1.

The SW1 station is located just northwest of the Osbourne Road crossing, within approximately 15 m of the gate and lights signal system for the CN railway line. Golder staff should never venture south of the swale or this station. If there is any indication that a train is coming (i.e., the signal lights start flashing and the gates come down, along with horn blasting heard from a distance), the Golder sampling team will walk away from the sampling equipment and efforts to a control point along and outside of the southeastern side of the Site's perimeter fence where they will wait until the train has passed.

At the SW2 station, this sampling station has been selected so Golder staff can reach within the receiving swale to take the sample while still being north of the farmer's fence and CN Railway line right-of-way for grabs at this station.

## Attachment 1:Surface Water Sampling Field Form Attachment 2:Golder's HAESP

N.B. For Attachment 1, see Appendix E-3 in Surface Water Monitoring Program Annual Report.

Attachment 2 is not provided .

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## 4.0 REFERENCES

Burton, G.A. and Pitt, R.E. (2002). Stormwater Effects Handbook: A Tool for

Watershed Managers, Scientists, and Engineers, Lewis Publishers. pp. 247-251, 307, 313,

337, 357





## **E-2 Laboratory Results**





Your Project #: 12-1151-0155 Your C.O.C. #: 35941301, 359413-01-01

#### Attention: Steve Auger

Golder Associates Ltd 140 Renfrew Dr Suite 110 Markham, ON L3R 6B3

Report Date: 2012/06/11

## CERTIFICATE OF ANALYSIS

#### MAXXAM JOB #: B283302 Received: 2012/06/06, 15:30

Sample Matrix: Water # Samples Received: 4

		Date	Date	Method
Analyses	Quantity	Extracted	Analyzed Laboratory Method	Reference
Total Suspended Solids	4	N/A	2012/06/08 CAM SOP-00428	SM 2540D
Turbidity	4	N/A	2012/06/07 CAM SOP-00417	APHA 2130B

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

\* Results relate only to the items tested.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MATHURA THIRUKKUMARAN, CS Rep Email: MThirukkumaran@maxxam.ca Phone# (905) 817-5700

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Total cover pages: 1

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Golder Associates Ltd Client Project #: 12-1151-0155

### **RESULTS OF ANALYSES OF WATER**

Maxxam ID		NS3403	NS3404	NS3405	NS3406		
	Units	SW1	SW2	SW3	SW4	RDL	QC Batch
Inorganics			_	_	_		
Total Suspended Solids	mg/L	54	10	<10	<10	10	2873872
Turbidity	NTU	31	5.2	3.5	2.9	0.2	2873914

RDL = Reportable Detection Limit QC Batch = Quality Control Batch

Page 2 of 6



Golder Associates Ltd Client Project #: 12-1151-0155

Maxxam ID						Collected
Sample ID						Shipped
Matrix	Water					Received 2012/06/06
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended S	Solids	SLDS	2873872	N/A	2012/06/08	SUBHASHCHANDRA PATEL
Turbidity		TURB	2873914	N/A	2012/06/07	NEIL DASSANAYAKE
Maxxam ID	NS3404					Collected
Sample ID	SW2					Shipped
Matrix						Received 2012/06/06
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended S	Solids	SLDS	2873872	N/A	2012/06/08	SUBHASHCHANDRA PATEL
Turbidity		TURB	2873914	N/A	2012/06/07	NEIL DASSANAYAKE
Maxxam ID	NC2405					Collected
Sample ID						Shipped
Matrix	water					Received 2012/06/06
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended S	Solids	SLDS	2873872	N/A	2012/06/08	SUBHASHCHANDRA PATEL
Turbidity		TURB	2873914	N/A	2012/06/07	NEIL DASSANAYAKE
Maxxam ID	NS3406					Collected
Sample ID						Shipped
Matrix						Received 2012/06/06
wat 1X	vvaloi					NGGGIYGU 2012/00/00
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Test Description Total Suspended S Turbidity	Solids	Instrumentation SLDS TURB	Batch 2873872 2873914	Extracted N/A N/A	Analyzed 2012/06/08 2012/06/07	Analyst SUBHASHCHANDRA PATEL NEIL DASSANAYAKE



Golder Associates Ltd Client Project #: 12-1151-0155

Package 1 -0.7°C

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS



Golder Associates Ltd Client Project #: 12-1151-0155

#### QUALITY ASSURANCE REPORT

			Method Blank		RP	D	QC Standard	
QC Batch	Parameter	Date	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
2873872	Total Suspended Solids	2012/06/08	<10	mg/L	NC	25	97	85 - 115
2873914	Turbidity	2012/06/07	<0.2	NTU	NC	20	98	85 - 115

N/A = Not Applicable

RPD = Relative Percent Difference

QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

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## Validation Signature Page

Maxxam Job #: B283302

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



EWA PRANJIC, M.Sc., C.Chem, Scientific Specialist

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#### Your Project #: 12-1151-0155 Your C.O.C. #: 35941302, 359413-02-01

#### Attention: Steve Auger

Golder Associates Ltd 140 Renfrew Dr Suite 110 Markham, ON L3R 6B3

Report Date: 2012/07/06

## CERTIFICATE OF ANALYSIS

#### MAXXAM JOB #: B297855 Received: 2012/06/29, 14:45

Sample Matrix: Water # Samples Received: 5

		Date	Date	Method
Analyses	Quantity	Extracted	Analyzed Laboratory Method	Reference
Total Suspended Solids	5	N/A	2012/07/03 CAM SOP-00428	SM 2540D
Turbidity	5	N/A	2012/07/03 CAM SOP-00417	APHA 2130B

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

\* Results relate only to the items tested.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Mathura Thirukkumaran, CS Rep Email: MThirukkumaran@maxxam.ca Phone# (905) 817-5700

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Golder Associates Ltd Client Project #: 12-1151-0155

Sampler Initials: PH

## **RESULTS OF ANALYSES OF WATER**

Maxxam ID		NZ2697	NZ2698	NZ2698		
Sampling Date		2012/06/27 10:40	2012/06/27 11:50	2012/06/27 11:50		
	Units	SW-1	SW-2	SW-2 Lab-Dup	RDL	QC Batch
Inorganics						
Total Suspended Solids	mg/L	230	<10	<10	10	2896769
Turbidity	NTU	70	1.7		0.2	2896397

Maxxam ID		NZ2699		NZ2700	NZ2700	NZ2701	NZ2701		
Sampling Date		2012/06/27		2012/06/27	2012/06/27	2012/06/27	2012/06/27		
		12:50		12:30	12:30	13:30	13:30		
	Units	SW-3	QC Batch	SW-4	SW-4 Lab-Dup	SWMP-W-OUT	SWMP-W-OUT	RDL	QC Batch
							Lab-Dup		
Inorganics									
Total Suspended Solids	mg/L	<10	2896769	<10		<10	<10	10	2896771
Turbidity	NTU	3.4	2896397	3.2	3.1	6.1		0.2	2896397

RDL = Reportable Detection Limit QC Batch = Quality Control Batch

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Golder Associates Ltd Client Project #: 12-1151-0155

Sampler Initials: PH

Maxxam ID Sample ID	SW-1					Collected 2012/06/27 Shipped
Matrix	Water					Received 2012/06/29
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended	Solids	SLDS	2896769	N/A	2012/07/03	Subhashchandra Patel
Turbidity		TURB	2896397	N/A	2012/07/03	Neil Dassanayake
Maxxam ID	NZ2698					Collected 2012/06/27
Sample ID	SW-2					Shipped
Matrix	Water					Received 2012/06/29
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended	Solids	SLDS	2896769	N/A	2012/07/03	Subhashchandra Patel
Turbidity		TURB	2896397	N/A	2012/07/03	Neil Dassanayake
Maurian ID						
Maxxam ID						Collected 2012/06/27
Sample ID Matrix	-					Shipped Received 2012/06/29
Matrix	water					Received 2012/06/29
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended	Solids	SLDS	2896769	N/A	2012/07/03	Subhashchandra Patel
Maxxam ID	N72600					Collected 2012/06/27
Sample ID						Shipped
Matrix						Received 2012/06/29
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended	Solids	SLDS	2896769	N/A	2012/07/03	Subhashchandra Patel
Turbidity		TURB	2896397	N/A	2012/07/03	Neil Dassanayake



Golder Associates Ltd Client Project #: 12-1151-0155

Sampler Initials: PH

Maxxam ID Sample ID Matrix	SW-4					Shipped	2012/06/27 2012/06/29
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst	2012/00/20
Total Suspended	Solids	SLDS	2896771	N/A	2012/07/03		chandra Patel
Turbidity		TURB	2896397	N/A	2012/07/03		sanayake
Maxxam ID	NZ2700 Dup					Collected	2012/06/27
Sample ID						Shipped	2012/00/27
Matrix							2012/06/29
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst	
Turbidity		TURB	2896397	N/A	2012/07/03	Neil Dass	sanayake
Maxxam ID	N72701					Collected	2012/06/27
	SWMP-W-OUT					Shipped	2012/00/21
Matrix							2012/06/29
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst	
Total Suspended	Solids	SLDS	2896771	N/A	2012/07/03	Subhash	chandra Patel
Turbidity		TURB	2896397	N/A	2012/07/03	Neil Dass	sanayake
Maxxam ID	NZ2701 Dup					Collected	2012/06/27
	SWMP-W-OUT					Shipped	
Matrix	Water						2012/06/29
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst	
Total Suspended	Solids	SLDS	2896771	N/A	2012/07/03	Subhash	chandra Patel



Golder Associates Ltd Client Project #: 12-1151-0155

Sampler Initials: PH

Package 1	0.3°C

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS



#### Golder Associates Ltd Client Project #: 12-1151-0155

Sampler Initials: PH

#### QUALITY ASSURANCE REPORT

			Method Blank		RP	D	QC Standard	
QC Batch	Parameter	Date	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
2896397	Turbidity	2012/07/03	<0.2	NTU	3.9	20	97	85 - 115
2896769	Total Suspended Solids	2012/07/03	<10	mg/L	NC	25	96	85 - 115
2896771	Total Suspended Solids	2012/07/03	<10	mg/L	NC	25	98	85 - 115

N/A = Not Applicable

RPD = Relative Percent Difference

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

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## Validation Signature Page

Maxxam Job #: B297855

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Ristin Carriere

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Cristina Carriere, Scientific Services

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Your Project #: 12-1151-0155 Your C.O.C. #: 35929301, 359293-01-01

#### Attention: Steve Auger

Golder Associates Ltd 140 Renfrew Dr Suite 110 Markham, ON L3R 6B3

Report Date: 2012/09/11

## CERTIFICATE OF ANALYSIS

#### MAXXAM JOB #: B2D7854 Received: 2012/09/07, 16:00

Sample Matrix: Water # Samples Received: 8

		Date	Date	Method
Analyses	Quantity	Extracted	Analyzed Laboratory Method	Reference
Total Suspended Solids	8	N/A	2012/09/10 CAM SOP-00428	SM 2540D
Turbidity	8	N/A	2012/09/10 CAM SOP-00417	APHA 2130B

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

\* Results relate only to the items tested.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Mathura Thirukkumaran, CS Rep Email: MThirukkumaran@maxxam.ca Phone# (905) 817-5700

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Total cover pages: 1

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Maxxam Job #: B2D7854

Report Date: 2012/09/11

Golder Associates Ltd Client Project #: 12-1151-0155

### **RESULTS OF ANALYSES OF WATER**

Maxxam ID		OT6366	OT6367	OT6368		OT6369	OT6370		
Sampling Date		2012/09/06	2012/09/06	2012/09/06		2012/09/06	2012/09/06		
		11:05	11:25	12:02		11:45	12:55		
	Units	SW-1	SW-2	SW-3	QC Batch	SW-4	W-SWMP-OUT	RDL	QC Batch
Inorganics			_					_	
Total Suspended Solids	mg/L	68	24	<10	2964171	15	19	10	2964171
Turbidity	NTU	120	27	3.2	2964192	16	9.6	0.2	2965265

Maxxam ID		OT6371	OT6371		OT6372	OT6373	OT6373		
Sampling Date		2012/09/06	2012/09/06		2012/09/06	2012/09/06	2012/09/06		
		10:25	10:25		13:00	12:30	12:30		
	Units	W-SWMP-IN	W-SWMP-IN	QC Batch	E-SWMP-OUT	E-SWMP-IN	E-SWMP-IN	RDL	QC Batch
			Lab-Dup				Lab-Dup		
Inorganics									
Total Suspended Solids	mg/L	17		2964171	<10	15	14	10	2964171
Turbidity	NTU	11	11	2964192	6.0	6.9		0.2	2965265

RDL = Reportable Detection Limit QC Batch = Quality Control Batch

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Golder Associates Ltd Client Project #: 12-1151-0155

Maxxam ID Sample ID						Collected 2012/09/06 Shipped
Matrix	Water					Received 2012/09/07
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended S	Solids	SLDS	2964171	N/A	2012/09/10	Bansari Ray
Turbidity		TURB	2964192	N/A	2012/09/10	Neil Dassanayake
Maxxam ID	OT6367					Collected 2012/09/06
Sample ID	SW-2					Shipped
Matrix						Received 2012/09/07
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended S	Solids	SLDS	2964171	N/A	2012/09/10	Bansari Ray
Turbidity		TURB	2964192	N/A	2012/09/10	Neil Dassanayake
Maxxam ID	OTCOCO					Collected 2012/09/06
Sample ID						Shipped
Matrix						Received 2012/09/07
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended S	Solids	SLDS	2964171	N/A	2012/09/10	Bansari Ray
Turbidity		TURB	2964192	N/A	2012/09/10	Neil Dassanayake
Maxxam ID	OT6369					Collected 2012/09/06
Sample ID	SW-4					Shipped
Matrix						Received 2012/09/07
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended S	Solids	SLDS	2964171	N/A	2012/09/10	Bansari Ray
Turbidity		TURB	2965265	N/A	2012/09/10	Neil Dassanayake



Golder Associates Ltd Client Project #: 12-1151-0155

Maxxam ID OT63 Sample ID W-S\ Matrix Wate	WMP-OUT					Shipped	2012/09/06 2012/09/07
Test Description	In	strumentation	Batch	Extracted	Analyzed	Analyst	
Total Suspended Solids	SI	DS	2964171	N/A	2012/09/10	Bansari R	lay
Turbidity	ТІ	JRB	2965265	N/A	2012/09/10	Neil Dass	anayake
Maxxam ID OT63 Sample ID W-SV						Collected Shipped	2012/09/06
Matrix Wate	r					Received	2012/09/07
Test Description	In	strumentation	Batch	Extracted	Analyzed	Analyst	
Total Suspended Solids	SI	DS	2964171	N/A	2012/09/10	Bansari R	lay
Turbidity	TI	JRB	2964192	N/A	2012/09/10	Neil Dass	anayake
Maxxam ID OT63 Sample ID W-S\ Matrix Wate	WMP-IN					Shipped	2012/09/06 2012/09/07
Test Description	In	strumentation	Batch	Extracted	Analyzed	Analyst	
Turbidity	TI	JRB	2964192	N/A	2012/09/10	Neil Dass	anayake
Maxxam ID OT63 Sample ID E-SW Matrix Wate	VMP-OUT					Collected Shipped Received	2012/09/06 2012/09/07
Test Description	In	strumentation	Batch	Extracted	Analyzed	Analyst	
Total Suspended Solids	SI	DS	2964171	N/A	2012/09/10	Bansari R	lay
Turbidity	TI	JRB	2965265	N/A	2012/09/10	Neil Dass	anayake



Golder Associates Ltd Client Project #: 12-1151-0155

				Collected         2012/09/06           Shipped         2012/09/07
Instrumentation	Batch	Extracted	Analyzed	Analyst
SLDS	2964171	N/A	2012/09/10	Bansari Ray
TURB	2965265	N/A	2012/09/10	Neil Dassanayake
				Collected         2012/09/06           Shipped         2012/09/07
Instrumentation	Batch	Extracted	Analyzed	Analyst
SLDS	2964171	N/A	2012/09/10	Bansari Rav
	SLDS TURB	SLDS 2964171 TURB 2965265	SLDS     2964171     N/A       TURB     2965265     N/A       Instrumentation     Batch     Extracted	SLDS     2964171     N/A     2012/09/10       TURB     2965265     N/A     2012/09/10       Instrumentation     Batch     Extracted     Analyzed



Golder Associates Ltd Client Project #: 12-1151-0155

Package 1 12.0°C

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS



Golder Associates Ltd Client Project #: 12-1151-0155

#### QUALITY ASSURANCE REPORT

			Method Blank		RP	D	QC Standard	
QC Batch	Parameter	Date	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
2964171	Total Suspended Solids	2012/09/10	<10	mg/L	NC	25	96	85 - 115
2964192	Turbidity	2012/09/10	<0.2	NTU	0.5	20	94	85 - 115
2965265	Turbidity	2012/09/10	<0.2	NTU	NC	20	93	85 - 115

N/A = Not Applicable

RPD = Relative Percent Difference

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Maxxam

Golder Associates Ltd Client Project #: 12-1151-0155

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination. NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.



## Validation Signature Page

Maxxam Job #: B2D7854

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

avistin Carriere

Cristina Carriere, Scientific Services

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Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, MIssissauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca



Your Project #: 12-1151-0155 Your C.O.C. #: 37239909, 372399-09-01

#### Attention: Steve Auger

Maxxam

Golder Associates Ltd 140 Renfrew Dr Suite 110 Markham, ON L3R 6B3

Report Date: 2012/10/03

## **CERTIFICATE OF ANALYSIS**

#### MAXXAM JOB #: B2F0998 Received: 2012/09/28, 15:50

Sample Matrix: Water # Samples Received: 6

		Date	Date	Method
Analyses	Quantity	Extracted	Analyzed Laboratory Method	Reference
Total Suspended Solids	6	N/A	2012/10/01 CAM SOP-00428	SM 2540D
Turbidity	6	N/A	2012/10/03 CAM SOP-00417	APHA 2130B

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

\* Results relate only to the items tested.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Mathura Thirukkumaran, CS Rep Email: MThirukkumaran@maxxam.ca Phone# (905) 817-5700

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Total cover pages: 1

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Golder Associates Ltd Client Project #: 12-1151-0155

### **RESULTS OF ANALYSES OF WATER**

Maxxam ID		PA3557	PA3558		
Sampling Date		2012/09/28	2012/09/28		
	Units	SW1	SW2	RDL	QC Batch
Inorganics					
Total Suspended Solids	mg/L	35	15	10	2986809
Turbidity	NTU	5.2	5.9	0.2	2986909

Maxxam ID		PA3559		PA3560		PA3561	PA3562		
Sampling Date		2012/09/28		2012/09/28		2012/09/28	2012/09/28		
	Units	SW3	QC Batch	SW4	QC Batch	E-SWMP-IN	E-SWMP-OUT	RDL	QC Batch
Inorganics	-					-		-	
Total Suspended Solids	mg/L	<10	2986809	<10	2986826	<10	<10	10	2986809
Turbidity	NTU	4.6	2986909	4.9	2986909	1 1	3.3	0.2	2986909

Maxxam ID		PA3562		
Sampling Date		2012/09/28		
	Units	E-SWMP-OUT Lab-Dup	RDL	QC Batch
Inorganics		-	-	
Turbidity	NTU	3.2	0.2	2986909

RDL = Reportable Detection Limit QC Batch = Quality Control Batch



Golder Associates Ltd Client Project #: 12-1151-0155

Maxxam ID Sample ID						Collected 2012/09/28 Shipped
Matrix						Received 2012/09/28
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended	Solids	SLDS	2986809	N/A	2012/10/01	Subhashchandra Patel
Turbidity		TURB	2986909	N/A	2012/10/03	Neil Dassanayake
Maxxam ID	PA3558					Collected 2012/09/28
Sample ID	SW2					Shipped
Matrix						Received 2012/09/28
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended	Solids	SLDS	2986809	N/A	2012/10/01	Subhashchandra Patel
Turbidity		TURB	2986909	N/A	2012/10/03	Neil Dassanayake
	<b>B</b> 4 4 <b>5</b> 4					• • • • • • • • • • • • • • • • • • • •
Maxxam ID						Collected 2012/09/28
Sample ID						Shipped
Matrix	Water					Received 2012/09/28
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended	Solids	SLDS	2986809	N/A	2012/10/01	Subhashchandra Patel
Turbidity		TURB	2986909	N/A	2012/10/03	Neil Dassanayake
Maxxam ID	PA3560					Collected 2012/09/28
Sample ID						Shipped
Matrix						Received 2012/09/28
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended	Solids	SLDS	2986826	N/A	2012/10/01	Bansari Ray
Turbidity		TURB	2986909	N/A	2012/10/03	Neil Dassanayake



Golder Associates Ltd Client Project #: 12-1151-0155

•	PA3561 E-SWMP-IN Water					Collected 2012/09/28 Shipped Received 2012/09/28
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended	Solids	SLDS	2986809	N/A	2012/10/01	Subhashchandra Patel
Turbidity		TURB	2986909	N/A	2012/10/03	Neil Dassanayake
•	PA3562 E-SWMP-OUT Water					Collected         2012/09/28           Shipped         2012/09/28           Received         2012/09/28
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended	Solids	SLDS	2986809	N/A	2012/10/01	Subhashchandra Patel
Turbidity		TURB	2986909	N/A	2012/10/03	Neil Dassanayake
Maxxam ID Sample ID Matrix	PA3562 Dup E-SWMP-OUT Water					Collected         2012/09/28           Shipped         2012/09/28
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Turbidity		TURB	2986909	N/A	2012/10/03	Neil Dassanayake



Golder Associates Ltd Client Project #: 12-1151-0155

Package 1 6.3°C

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS



Golder Associates Ltd Client Project #: 12-1151-0155

#### QUALITY ASSURANCE REPORT

			Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
2986809	Total Suspended Solids	2012/10/01	<10	mg/L	NC	25	97	85 - 115
2986826	Total Suspended Solids	2012/10/01	<10	mg/L	5.6	25	99	85 - 115
2986909	Turbidity	2012/10/03	<0.2	NTU	4.3	20	101	85 - 115

N/A = Not Applicable

RPD = Relative Percent Difference

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

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## Validation Signature Page

Maxxam Job #: B2F0998

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Ristin Carriere

\_\_\_\_

Cristina Carriere, Scientific Services

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ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Your Project #: 12-1151-0155 Site#: 12-1151-0155 Your C.O.C. #: 37239901, 372399-01-01

#### Attention: Steve Auger

Golder Associates Ltd 140 Renfrew Dr Suite 110 Markham, ON L3R 6B3

Report Date: 2012/11/08

# CERTIFICATE OF ANALYSIS

#### MAXXAM JOB #: B2H2122 Received: 2012/11/02, 13:25

Sample Matrix: Water # Samples Received: 7

		Date	Date	Method
Analyses	Quantity	Extracted	Analyzed Laboratory Method	Reference
Total Suspended Solids	6	N/A	2012/11/05 CAM SOP-00428	SM 2540D
Total Suspended Solids	1	N/A	2012/11/07 CAM SOP-00428	SM 2540D
Turbidity	3	N/A	2012/11/02 CAM SOP-00417	APHA 2130B
Turbidity	4	N/A	2012/11/03 CAM SOP-00417	APHA 2130B

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

\* Results relate only to the items tested.

**Encryption Key** 

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Mathura Thirukkumaran, CS Rep Email: MThirukkumaran@maxxam.ca Phone# (905) 817-5700

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Total cover pages: 1

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Golder Associates Ltd Client Project #: 12-1151-0155

### **RESULTS OF ANALYSES OF WATER**

Maxxam ID		PL7770		PL7771	PL7772		PL7773	PL7773		
Sampling Date		2012/11/01		2012/11/01	2012/11/01		2012/11/01	2012/11/01		
		09:02		09:26	10:05		10:25	10:25		
	Units	SW1	QC Batch	SW2	SW3	QC Batch	SW4	SW4 Lab-Dup	RDL	QC Batch
Inorganics										
Total Suspended Solids	mg/L	20	3028558	17	<10	3025284	10		10	3025284
Turbidity	NTU	37	3024723	28	10	3024722	9.7	9.2	0.2	3024723

Maxxam ID		PL7774			PL7775		PL7776	PL7776		
Sampling Date		2012/11/01			2012/11/01		2012/11/01	2012/11/01		
		10:50			11:10		11:45	11:45		
	Units	E-SWMP-IN	RDL	QC Batch	W-SWMP-IN	RDL	W-SWMP-OUT	W-SWMP-OUT	RDL	QC Batch
								Lab-Dup		
Inorganics										
Total Suspended Solids	mg/L	1400	50	3025284	120	10	31		10	3025284
Turbidity	NTU	910	2	3024723	270	1	55	53	0.2	3024722

RDL = Reportable Detection Limit QC Batch = Quality Control Batch

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Golder Associates Ltd Client Project #: 12-1151-0155

Maxxam ID P Sample ID S						Collected 2012/11/01 Shipped
Matrix V	Vater					Received 2012/11/02
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended So	olids	SLDS	3028558	N/A	2012/11/07	Gurpreet Kaur
Turbidity		TURB	3024723	N/A	2012/11/02	Neil Dassanayake
Maxxam ID P	9 7771					Collected 2012/11/01
Sample ID S						Shipped
Matrix V						Received 2012/11/02
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended So	olids	SLDS	3025284	N/A	2012/11/05	Bansari Ray
Turbidity		TURB	3024722	N/A	2012/11/03	Neil Dassanayake
Maxxam ID P						Collected 2012/11/01
Sample ID S						Shipped
Matrix V	Vater					Received 2012/11/02
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended So	olids	SLDS	3025284	N/A	2012/11/05	Bansari Ray
Turbidity		TURB	3024722	N/A	2012/11/03	Neil Dassanayake
Maxxam ID P	1 7770					Collected 2012/11/01
Sample ID S						Shipped
Matrix V						Received 2012/11/02
						Neceiveu 2012/11/02
						• • •
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Test Description Total Suspended So Turbidity	olids	Instrumentation SLDS TURB	Batch 3025284 3024723	Extracted N/A N/A	Analyzed 2012/11/05 2012/11/02	Analyst Bansari Ray Neil Dassanayake



Golder Associates Ltd Client Project #: 12-1151-0155

Maxxam ID PL7773 Du Sample ID SW4 Matrix Water	q				Collected         2012/11/01           Shipped         2012/11/02
Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Turbidity	TURB	3024723	N/A	2012/11/02	Neil Dassanayake
Maxxam ID PL7774 Sample ID E-SWMP-II Matrix Water	Ν				Collected         2012/11/01           Shipped         2012/11/02
Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended Solids	SLDS	3025284	N/A	2012/11/05	Bansari Ray
Turbidity	TURB	3024723	N/A	2012/11/02	Neil Dassanayake
Maxxam ID PL7775 Sample ID W-SWMP-I Matrix Water	IN				Collected         2012/11/01           Shipped         2012/11/02
Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended Solids	SLDS	3025284	N/A	2012/11/05	Bansari Ray
Turbidity	TURB	3024722	N/A	2012/11/03	Neil Dassanayake
Maxxam ID PL7776 Sample ID W-SWMP-0 Matrix Water	DUT				Collected         2012/11/01           Shipped         2012/11/02
Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
T ( 10 1 10 11	SLDS	3025284	N/A	2012/11/05	Bansari Rav
Total Suspended Solids	3103	<u>JUZJZU</u> 4	INA	2012/11/05	Dansan Nay



Golder Associates Ltd Client Project #: 12-1151-0155

Maxxam ID         PL7776 Dup         Collected         2012/11/01           Sample ID         W-SWMP-OUT         Shipped	
Matrix Water Received 2012/11/02	
Sample ID W SWMD OUT	

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Turbidity	TURB	3024722	N/A	2012/11/03	Neil Dassanayake



Golder Associates Ltd Client Project #: 12-1151-0155

Package 1 0.7°C

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS



Golder Associates Ltd Client Project #: 12-1151-0155

#### QUALITY ASSURANCE REPORT

			Method Blank		RP	D	QC Standard	
QC Batch	Parameter	Date	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3024722	Turbidity	2012/11/03	0.2, RDL=0.2	NTU	4.1	20	100	85 - 115
3024723	Turbidity	2012/11/02	0.3, RDL=0.2	NTU	5.0	20	97	85 - 115
3025284	Total Suspended Solids	2012/11/05	<10	mg/L	NC	25	98	85 - 115
3028558	Total Suspended Solids	2012/11/07	<10	mg/L	3.2	25	98	85 - 115

N/A = Not Applicable

RDL = Reportable Detection Limit

RPD = Relative Percent Difference

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

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# Validation Signature Page

Maxxam Job #: B2H2122

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Ristin Carriere

\_\_\_\_

Cristina Carriere, Scientific Services

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Maxxam

Your Project #: 12-1151-0155 Site#: 12-1151-0155 Site Location: COVANTA Your C.O.C. #: 39047403, 390474-03-01

Attention: Steve Auger

Golder Associates Ltd 140 Renfrew Dr Suite 110 Markham, ON L3R 6B3

Report Date: 2013/03/19

# CERTIFICATE OF ANALYSIS

#### MAXXAM JOB #: B337362 Received: 2013/03/13, 13:50

Sample Matrix: Water # Samples Received: 8

		Date	Date	Method
Analyses	Quantity	Extracted	Analyzed Laboratory Method	Reference
Total Suspended Solids	8	N/A	2013/03/14 CAM SOP-00428	SM 2540D
Turbidity	8	N/A	2013/03/13 CAM SOP-00417	APHA 2130B

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

\* Results relate only to the items tested.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Mathura Thirukkumaran, CS Rep Email: MThirukkumaran@maxxam.ca Phone# (905) 817-5700

\_\_\_\_\_

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Total cover pages: 1

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Golder Associates Ltd Client Project #: 12-1151-0155 Site Location: COVANTA

### **RESULTS OF ANALYSES OF WATER**

Maxxam ID		QV4337		QV4338	QV4339		
Sampling Date		2013/03/12 10:24		2013/03/12	2013/03/12		
				11:05	11:43		
	Units	SW1	QC Batch	SW2	SW3	RDL	QC Batch
Inorganics						_	
Total Suspended Solids	mg/L	20	3150621	<10	64	10	3150998
Turbidity	NTU	25	3150321	14	32	0.2	3150321

Maxxam ID		QV4340	QV4341	QV4342	QV4343	QV4344		
Sampling Date		2013/03/12	2013/03/12	2013/03/12	2013/03/12	2013/03/12		
		11:20	09:25	10:34	09:40	10:35		
	Units	SW4	E-SWMP-IN	E-SWMP-OUT	W-SWMP-IN	W-SWMP-OUT	RDL	QC Batch
Inorganics								
Total Suspended Solids	mg/L	53	19	16	29	20	10	3150998
Turbidity	NTU	07	41	35	86	94	0.2	3150321

RDL = Reportable Detection Limit QC Batch = Quality Control Batch

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Golder Associates Ltd Client Project #: 12-1151-0155 Site Location: COVANTA

Maxxam ID Q						Collected 2013/03/12
Sample ID SV Matrix Wa						Shipped Received 2013/03/13
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended Soli	ds	SLDS	3150621	N/A	2013/03/14	Subhashchandra Patel
Turbidity		TURB	3150321	N/A	2013/03/13	Neil Dassanayake
Maxxam ID Q	/4338					Collected 2013/03/12
Sample ID SV	V2					Shipped
Matrix Wa	ater					Received 2013/03/13
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended Soli	ds	SLDS	3150998	N/A	2013/03/14	Gurpreet Kaur
Turbidity		TURB	3150321	N/A	2013/03/13	Neil Dassanayake
Maxxam ID Q\ Sample ID SV Matrix Wa	V3					Collected         2013/03/12           Shipped         2013/03/13
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended Soli	ds	SLDS	3150998	N/A	2013/03/14	Gurpreet Kaur
Turbidity		TURB	3150321	N/A	2013/03/13	Neil Dassanayake
Maxxam ID Q\ Sample ID SV Matrix Wa	V4					Collected         2013/03/12           Shipped         2013/03/13
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Test Description Total Suspended Soli	ds	Instrumentation SLDS TURB	Batch 3150998	Extracted N/A N/A	Analyzed 2013/03/14 2013/03/13	Analyst Gurpreet Kaur



Golder Associates Ltd Client Project #: 12-1151-0155 Site Location: COVANTA

Maxxam ID QV4341 Sample ID E-SWMP-IN Matrix Water					Collected         2013/03/12           Shipped         2013/03/13
Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended Solids	SLDS	3150998	N/A	2013/03/14	Gurpreet Kaur
Turbidity	TURB	3150321	N/A	2013/03/13	Neil Dassanayake
Maxxam ID QV4342					Collected 2013/03/12
Sample ID E-SWMP-OUT					Shipped
Matrix Water					Received 2013/03/13
Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended Solids	SLDS	3150998	N/A	2013/03/14	Gurpreet Kaur
	0200				
Turbidity	TURB	3150321	N/A	2013/03/13	Neil Dassanayake
		3150321	N/A	2013/03/13	Neil Dassanayake Collected 2013/03/12 Shipped Received 2013/03/13
Turbidity Maxxam ID QV4343 Sample ID W-SWMP-IN		3150321 Batch	N/A Extracted	2013/03/13 Analyzed	Collected 2013/03/12 Shipped
Turbidity Maxxam ID QV4343 Sample ID W-SWMP-IN Matrix Water	TURB				Collected         2013/03/12           Shipped         2013/03/13
Turbidity Maxxam ID QV4343 Sample ID W-SWMP-IN Matrix Water Test Description	TURB	Batch	Extracted	Analyzed	Collected 2013/03/12 Shipped Received 2013/03/13 Analyst
Turbidity Maxxam ID QV4343 Sample ID W-SWMP-IN Matrix Water Test Description Total Suspended Solids	TURB Instrumentation SLDS	<b>Batch</b> 3150998	Extracted N/A	Analyzed 2013/03/14	Collected 2013/03/12 Shipped Received 2013/03/13 Analyst Gurpreet Kaur
Turbidity Maxxam ID QV4343 Sample ID W-SWMP-IN Matrix Water Test Description Total Suspended Solids Turbidity Maxxam ID QV4344 Sample ID W-SWMP-OUT	TURB Instrumentation SLDS TURB Instrumentation	<b>Batch</b> 3150998	Extracted N/A	Analyzed 2013/03/14	Collected 2013/03/12 Shipped Received 2013/03/13 Analyst Gurpreet Kaur Neil Dassanayake Collected 2013/03/12 Shipped
Turbidity Maxxam ID QV4343 Sample ID W-SWMP-IN Matrix Water Test Description Total Suspended Solids Turbidity Maxxam ID QV4344 Sample ID W-SWMP-OUT Matrix Water	TURB Instrumentation SLDS TURB	Batch 3150998 3150321	Extracted N/A N/A	Analyzed 2013/03/14 2013/03/13	Collected 2013/03/12 Shipped Received 2013/03/13 Analyst Gurpreet Kaur Neil Dassanayake Collected 2013/03/12 Shipped Received 2013/03/13



Golder Associates Ltd Client Project #: 12-1151-0155 Site Location: COVANTA

Package 1 0.0°C

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS



Golder Associates Ltd Client Project #: 12-1151-0155 Site Location: COVANTA

#### QUALITY ASSURANCE REPORT

			Method	Blank	RP	D	QC Sta	ndard
QC Batch	Parameter	Date	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3150321	Turbidity	2013/03/13	<0.2	NTU	NC	20	93	85 - 115
3150621	Total Suspended Solids	2013/03/14	<10	mg/L	NC	25	99	85 - 115
3150998	Total Suspended Solids	2013/03/14	<10	mg/L	NC	25	99	85 - 115

N/A = Not Applicable

RPD = Relative Percent Difference

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Page 6 of 7



# Validation Signature Page

Maxxam Job #: B337362

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Ristin Carriere

\_\_\_\_

Cristina Carriere, Scientific Services

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam

Your Project #: 12-1151-0155 Site#: 12-1151-0155 Site Location: COVENTA Your C.O.C. #: 18690801, 186908-01-01

#### Attention: Steve Auger

Golder Associates Ltd 140 Renfrew Dr Suite 110 Markham, ON L3R 6B3

Report Date: 2013/03/27

# CERTIFICATE OF ANALYSIS

#### MAXXAM JOB #: B341242 Received: 2013/03/20, 12:12

Sample Matrix: Water # Samples Received: 8

		Date	Date	Method
Analyses	Quantity	Extracted	Analyzed Laboratory Method	Reference
Total Suspended Solids	8	N/A	2013/03/25 CAM SOP-00428	SM 2540D
Turbidity	8	N/A	2013/03/20 CAM SOP-00417	APHA 2130B

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

\* Results relate only to the items tested.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Mathura Thirukkumaran, CS Rep Email: MThirukkumaran@maxxam.ca Phone# (905) 817-5700

\_\_\_\_\_

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Page 1 of 8



Golder Associates Ltd Client Project #: 12-1151-0155 Site Location: COVENTA

#### **RESULTS OF ANALYSES OF WATER**

Maxxam ID		QX3116	QX3117	QX3118	QX3119		
Sampling Date		2013/03/19 10:00	2013/03/19	2013/03/19	2013/03/19		
			11:15	11:30	10:30		
	Units	SW 1	SW 2	SW 3	SW 4	RDL	QC Batch
Inorganics			_			_	
Total Suspended Solids	mg/L	14	14	<10	<10	10	3159727
Turbidity	NTU	22	14	9.2	6.3	0.2	3157363

Maxxam ID		QX3120	QX3121	QX3122	QX3122	QX3123		
Sampling Date		2013/03/19	2013/03/19	2013/03/19	2013/03/19	2013/03/19		
		09:30	10:15	09:40	09:40	10:15		
	Units	E-SWMP-IN	E-SWMP-OUT	W-SWMP-IN	W-SWMP-IN	W-SWMP-OUT	RDL	QC Batch
					Lab-Dup			
Inorganics								
Total Suspended Solids	mg/L	<10	<10	13	13	<10	10	3159727
Turbidity	NTU	2.0	4.5	21		5.6	0.2	3157363

RDL = Reportable Detection Limit QC Batch = Quality Control Batch

Page 2 of 8



Golder Associates Ltd Client Project #: 12-1151-0155 Site Location: COVENTA

Maxxam ID Sample ID						Collected 2013/03/19 Shipped
Matrix	Water					Received 2013/03/20
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended	Solids	SLDS	3159727	N/A	2013/03/25	Bansari Ray
Turbidity		TURB	3157363	N/A	2013/03/20	Neil Dassanayake
Maxxam ID	QX3117					Collected 2013/03/19
Sample ID						Shipped
Matrix						Received 2013/03/20
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended	Solids	SLDS	3159727	N/A	2013/03/25	Bansari Ray
Turbidity		TURB	3157363	N/A	2013/03/20	Neil Dassanayake
Maxxam ID	QX3118					Collected 2013/03/19
Sample ID Matrix						Shipped Received 2013/03/20
Matrix	Water	Instrumentation	Batch	Extracted	Analvzed	Received 2013/03/20
Matrix Test Description	Water	Instrumentation SLDS	Batch 3159727	Extracted N/A	Analyzed 2013/03/25	
Matrix	Water					Received 2013/03/20 Analyst
Matrix Test Description Total Suspended	Water Solids QX3119 SW 4	SLDS	3159727	N/A	2013/03/25	Received 2013/03/20 Analyst Bansari Ray
Matrix Test Description Total Suspended Turbidity Maxxam ID Sample ID	Water Solids QX3119 SW 4 Water	SLDS	3159727	N/A	2013/03/25	Received 2013/03/20 Analyst Bansari Ray Neil Dassanayake Collected 2013/03/19 Shipped
Matrix Test Description Total Suspended Turbidity Maxxam ID Sample ID Matrix	Water Solids QX3119 SW 4 Water	SLDS TURB	3159727 3157363	N/A N/A	2013/03/25 2013/03/20	Received 2013/03/20 Analyst Bansari Ray Neil Dassanayake Collected 2013/03/19 Shipped Received 2013/03/20



Golder Associates Ltd Client Project #: 12-1151-0155 Site Location: COVENTA

Maxxam ID QX3 Sample ID E-S Matrix Wat	WMP-IN					Shipped	2013/03/19 2013/03/20
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst	
Total Suspended Solid	s	SLDS	3159727	N/A	2013/03/25	Bansari F	Rav
Turbidity	-	TURB	3157363	N/A	2013/03/20	Neil Dass	
Maxxam ID QX3 Sample ID E-S Matrix Wat	WMP-OUT					Collected Shipped Received	2013/03/19 2013/03/20
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst	
Total Suspended Solid	s	SLDS	3159727	N/A	2013/03/25	Bansari F	Rav
Turbidity	-	TURB	3157363	N/A	2013/03/20	Neil Dass	
Maxxam ID QX3 Sample ID W-S Matrix Wat	SWMP-IN					Shipped	2013/03/19 2013/03/20
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst	
Total Suspended Solid	S	SLDS	3159727	N/A	2013/03/25	Bansari F	Ray
Turbidity		TURB	3157363	N/A	2013/03/20	Neil Dass	sanayake
Maxxam ID QX3 Sample ID W-S	SWMP-IN					Shipped	2013/03/19 2013/03/20
Matrix Wat							
Matrix Wat		Instrumentation	Batch	Extracted	Analyzed	Analyst	



Golder Associates Ltd Client Project #: 12-1151-0155 Site Location: COVENTA

Maxxam ID	QX3123	Collected	2013/03/19
Sample ID	W-SWMP-OUT	Shipped	
Matrix	Water	Received	2013/03/20

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended Solids	SLDS	3159727	N/A	2013/03/25	Bansari Ray
Turbidity	TURB	3157363	N/A	2013/03/20	Neil Dassanayake



Golder Associates Ltd Client Project #: 12-1151-0155 Site Location: COVENTA

Package 1 -2.0°C

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS



Golder Associates Ltd Client Project #: 12-1151-0155 Site Location: COVENTA

#### QUALITY ASSURANCE REPORT

			Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3157363	Turbidity	2013/03/21	<0.2	NTU	6.6	20	97	85 - 115
3159727	Total Suspended Solids	2013/03/25	<10	mg/L	NC	25	100	85 - 115

N/A = Not Applicable

RPD = Relative Percent Difference

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Page 7 of 8



# Validation Signature Page

Maxxam Job #: B341242

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Ristin Carriere

\_\_\_\_

Cristina Carriere, Scientific Services

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ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Your Project #: 12-1151-0155 Site#: 12-1151-0155 Site Location: COVANTA Your C.O.C. #: 40044101, 400441-01-01

#### Attention: Steve Auger

Golder Associates Ltd 140 Renfrew Dr Suite 110 Markham, ON L3R 6B3

Report Date: 2013/04/15

# CERTIFICATE OF ANALYSIS

#### MAXXAM JOB #: B352111 Received: 2013/04/09, 12:30

Sample Matrix: Water # Samples Received: 8

		Date	Date	Method
Analyses	Quantity	Extracted	Analyzed Laboratory Method	Reference
Total Suspended Solids	7	N/A	2013/04/11 CAM SOP-00428	SM 2540D
Total Suspended Solids	1	N/A	2013/04/12 CAM SOP-00428	SM 2540D
Turbidity	8	N/A	2013/04/09 CAM SOP-00417	APHA 2130B

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

\* Results relate only to the items tested.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Mathura Thirukkumaran, Project Manager Email: MThirukkumaran@maxxam.ca Phone# (905) 817-5757

\_\_\_\_\_

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Total cover pages: 1

Page 1 of 7



Golder Associates Ltd Client Project #: 12-1151-0155 Site Location: COVANTA Sampler Initials: JH

#### **RESULTS OF ANALYSES OF WATER**

Maxxam ID		RC5413	RC5414	RC5415		
Sampling Date		2013/04/08	2013/04/08	2013/04/08		
	Units	E-SWMP-IN	E-SWMP-OUT	W-SWMP-IN	RDL	QC Batch
Inorganics						
Total Suspended Solids	mg/L	12	13	<10	10	3176824

Maxxam ID		RC5416		RC5417	RC5418	RC5419	RC5420		
Sampling Date		2013/04/08		2013/04/08	2013/04/08	2013/04/08	2013/04/08		
	Units	W-SWMP-OUT	QC Batch	SW1	SW2	SW3	SW4	RDL	QC Batch
Inorganics									
Total Suspended Solids	ma/l	10	3177215	<10	<10	<10	<10	10	3176824
Total Suspended Solids	mg/L	19	31//213	<10	<10	<10	<10	10	3170024



Golder Associates Ltd Client Project #: 12-1151-0155 Site Location: COVANTA Sampler Initials: JH

Maxxam ID Sample ID						Collected 2013/04/08 Shipped
Matrix	Water					Received 2013/04/09
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended S	Solids	SLDS	3176824	N/A	2013/04/11	Subhashchandra Patel
Turbidity		TURB	3176030	N/A	2013/04/09	Neil Dassanayake
Maxxam ID	RC5414					Collected 2013/04/08
Sample ID	E-SWMP-OUT					Shipped
Matrix	Water					Received 2013/04/09
Test Description		Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended S	Solids	SLDS	3176824	N/A	2013/04/11	Subhashchandra Patel
Turbidity		TURB	3176030	N/A	2013/04/09	Neil Dassanayake
Maxxam ID Sample ID						Collected 2013/04/08 Shipped
Matrix	-					Received 2013/04/09
	-	Instrumentation	Batch	Extracted	Analvzed	Received 2013/04/09
Matrix Test Description Total Suspended S	Water	Instrumentation SLDS	Batch 3176824	Extracted	Analyzed 2013/04/11	
Test Description	Water					Received 2013/04/09 Analyst
Test Description Total Suspended S Turbidity Maxxam ID	Water Solids RC5416 W-SWMP-OUT	SLDS	3176824	N/A	2013/04/11	Received 2013/04/09 Analyst Subhashchandra Patel
Test Description Total Suspended S Turbidity Maxxam ID Sample ID Matrix Test Description	Water Solids RC5416 W-SWMP-OUT Water	SLDS TURB	3176824 3176030 Batch	N/A N/A Extracted	2013/04/11 2013/04/09 Analyzed	Received 2013/04/09 Analyst Subhashchandra Patel Neil Dassanayake Collected 2013/04/08 Shipped Received 2013/04/09 Analyst
Test Description Total Suspended S Turbidity Maxxam ID Sample ID Matrix	Water Solids RC5416 W-SWMP-OUT Water	SLDS TURB	3176824 3176030	N/A N/A	2013/04/11 2013/04/09	Received       2013/04/09         Analyst       Subhashchandra Patel         Neil Dassanayake       2013/04/08         Collected       2013/04/08         Shipped       Received         Received       2013/04/09



Golder Associates Ltd Client Project #: 12-1151-0155 Site Location: COVANTA Sampler Initials: JH

Maxxam ID RC5417 Sample ID SW1					Collected 2013/04/08 Shipped
Matrix Water					Received 2013/04/09
Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended Solids	SLDS	3176824	N/A	2013/04/11	Subhashchandra Patel
Turbidity	TURB	3176030	N/A	2013/04/09	Neil Dassanayake
Maxxam ID RC5418					Collected 2013/04/08
Sample ID SW2					Shipped
Matrix Water					Received 2013/04/09
Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended Solids	SLDS	3176824	N/A	2013/04/11	Subhashchandra Patel
Turbidity	TURB	3176030	N/A	2013/04/09	Neil Dassanayake
Maxxam ID RC5419 Sample ID SW3 Matrix Water					Collected         2013/04/08           Shipped         2013/04/09
Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Suspended Solids	SLDS	3176824	N/A	2013/04/11	Subhashchandra Patel
Turbidity	TURB	3176030	N/A	2013/04/09	Neil Dassanayake
Maxxam ID RC5420 Sample ID SW4 Matrix Water					Collected         2013/04/08           Shipped         2013/04/09
Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Test Description Total Suspended Solids Turbidity	Instrumentation SLDS TURB	Batch 3176824 3176030	Extracted N/A N/A	Analyzed 2013/04/11 2013/04/09	Analyst Subhashchandra Patel Neil Dassanayake



Golder Associates Ltd Client Project #: 12-1151-0155 Site Location: COVANTA Sampler Initials: JH

Package 1 -0.7°C

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS



Golder Associates Ltd Client Project #: 12-1151-0155 Site Location: COVANTA Sampler Initials: JH

#### QUALITY ASSURANCE REPORT

			Method	Blank	RP	D	QC Standard	
QC Batch	Parameter	Date	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
3176030	Turbidity	2013/04/09	<0.2	NTU	11.7	20	99	85 - 115
3176824	Total Suspended Solids	2013/04/11	<10	mg/L	NC	25	94	85 - 115
3177215	Total Suspended Solids	2013/04/12	<10	mg/L	NC	25	98	85 - 115

N/A = Not Applicable

RPD = Relative Percent Difference

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Page 6 of 7



# Validation Signature Page

Maxxam Job #: B352111

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Ristin Carriere

\_\_\_\_

Cristina Carriere, Scientific Services

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ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



# E-3 In Situ Measurements



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	PROJECT INFORMATION Project Number: 12-1151-0 Client: Con Contro- Site Location: Site Location:	0155			Date: JUN Sampled By: Devo	e 5, 201) n witheridge, Ret Jes	erHebert + sica Hanschell
	SITE DATA						
	Time	1:55am			Location ID SU	1	
	Surveyed reference point						
	Water Depth at Staff Gauge (m)				Logger Number		
	Stream Width (m)		flow	4(	Loger Download Time		
	Stagnant	Yes / No	flow		Photos Taken	Yes / No (#)	
	Flow Rate				Photo Location		
	CAMPING PARALITY AND AND						
	SAMPLING PARAMETER	Beday		lievite-			a)
	Time Oxygen Conductivity	pH Potential Units mV	°C	Turbidity	Colour	Odour	
151	11.65 001 1000	15	17.44		Clear	wetland must	
PRN		T	16.1				
	SAMPLING RECORD			dial 1		en Mangente V	
	Sampling Method:				Semple ID:		
	Sample Depth:			Dup take	en? / Dup ID:		
	Time Sampled:						
	Sample Appearance: Colour:				Turbidity: Low / Med	ium / High	
	Odour:				,		
	Sample Container and Preservation:						
	OBSERVATIONS		THE LY 2	1.11	and the second		
	Weather Conditions: Temperature:						
	Current Precipitation:						
	Precipitation of past 24 / 48 hrs:						
	Notes:	··					
				·			
		······					



PROJECT INFORM	ATION
Project Number:	12-1151-0155
Client:	Covanta
Site Location:	SW2

Time

1:00

Yes /No

SITE DATA

Date: June 5th 2012. Sampled By: Devon Withernicky, Peter Hebert, Jessica Hanschell

		_
Location ID	SW 7_	

Logger Number	
Loger Download Time	
Photos Taken	Yes / No (#)
Photo Location	

### SAMPLING PARAMETER

Surveyed reference point

Water Depth at Staff Gauge (m) 10, 3cm Stream Width (m)

> Stagnant Flow Rate

.121	Time	Dissolved Oxygen mg/L	Conductivity mS or µS	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour	
Y21	1:00	89.7001	60745	7.49		15,39		Clear	NO	_
N.39			Dissm/g	7.39		13,4				

Sampling Method:	Sample ID:		
Sample Depth:	Dup taken? / Dup ID:		
Time Sampled:	-		
Sample A <b>ppearance:</b> Colour:	 Turbidity: Low / Medium / High		
Odour:	_	Depth	
Sample Container and Preservation:		2.4	1
			V
OBSERVATIONS			
OBSERVATIONS Weather Conditions: Temperature:			
Weather Conditions:			
Weather Conditions: Temperature: Current Precipitation:			
Weather Conditions: Temperature: Current Precipitation: Precipitation of past 24 / 48 hrs:			
Weather Conditions: Temperature: Current Precipitation:			
Weather Conditions: Temperature: Current Precipitation: Precipitation of past 24 / 48 hrs:			

S.



Coordinates:

Depth.

PROJECT INFORMATION
Project Number: 12-1151-0155
Client: Covanta
Site Location: 503 Tully creek.
SITE DATA
Time 2:30pn
Surveyed reference point

Water Depth at Staff Gauge (m) 11.6cm Stream Width (m) Stagnant Yes No Flow Rate

Location ID	SW	3.	way pt	# 30 N 43 52,554 W 78 45.937
				w 78° 45.937
Logo	er Number			
Loger Dow	nload Time			
Pho	tos Taken	Yes No (#_	)	
Pho	to Location			

SAMPLING PARAMETER Dissolved Redox Conductivity рH Temperature Time Oxygen Potential Turbidity Colour Odour mS or µS pH Units mV⊧ dear mainly mg/L °C a bit of red sal actions by not supplied - 84 No adour YSI-7 23000 8.06 17.53°C 1174 16.8°C. 0.55 7.505 →lên SAMPLING RECORD Sampling Method: Sample ID: Sample Depth: Dup taken? / Dup ID: Time Sampled: Sample Appearance: Colour: Turbidity: Low / Medium / High Odour: Sample Container and Preservation: OBSERVATIONS Weather Conditions: Temperature: Current Precipitation: Precipitation of past 24 / 48 hrs: Notes:

Date: 5th June 2012 Sampled By: Jessica Hanschell+ Peter Hebert



PROJECT INFORMATION Project Number: 12-1151-0155 Client: Covanta Site Location: SW 4

Date: 5th June 2012\_

Sampled By: Jessica Hanschell + Peter Hebert

2.

Time	3:05pm		Location ID SW4	way pt. 31
Surveyed reference point	•			- N43°52,494
Water Depth at Staff Gauge (m)	10.2 cm		Logger Number	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Stream Width (m)			Loger Download Time	
Stagnant	Yes /No	r	Photos Taken (Yes / No (#	
Flow Rate			Photo Location	

Time	issolved Oxygen mg/L	Conductivity	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour	
pm 12	.33mg/t 1.5 %.	ivy and.	7,92		18-64		Identical public to upstracing.	No odour	
n -)		0,50ms	7.70		18.00				
SAMPLING	RECOR	D	14 m		17-10sec	ed the			
Sampling	Mathod					reading			
Samping	weatou.				Sample ID:				
Sample Depth:				Dup taken? / Dup ID:					
Time S	Sampled:								
Sample Appearance: Colour:			_ Turbidity: Low / Medium / High						
	Odour:								
Sample Container and Preservation:			7						
						100 M	7		
						30	8		

Depth \_\_\_\_\_\_

OBSERVATIONS Weather Conditions: Temperature: Current Precipitation:

Precipitation of past 24 / 48 hrs:

Notes:



PROJECT INFORMATION
Project Number: 12-1151-0155
client Cavanta
Site Location: Dastan
3

Date: JUNE 27, 2013 Sempled By: PH / JH

SITE DATA

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Time	10:40	Location ID SW -1
Surveyed reference point	SwI-1	
Water Depth at Staff Gauge (m)	Scm	Logger Number
Stream Width (m)	1.5m	Loge: Download Time
Stegnant	Yes / No	Photos Teken (*) No (*
Flow Rate		Photo Location 563 - 1

SAMPLING PARAMETER

Time	Dissolved Oxygen mg/L	Conductivity mS o uS	pH pH Units	Redox Potentiei mV	Temperature °C	Turbidity	Colour	Orlour
10:55		551	3,78		18.0		slightly brown	None

SAMPLING RECORD

Sampling Method:	Hand					
Sample Depth:		Dup taken? / Dup ID: Yes swither				
Time Sampled;	10.40:					
Sample Appearance: Colour:		Turb/dity: Low / Medium / High				
Odour:		-				
Sample Container and Pr						
OBSERVATIONS						
Weather Conditions:						
	emperature:					
Current F	Precipitation:					
Precipitation of past	t 24 / 48 hrs:					
Notes:						
SITE SKETCH						

PROJECT INFORMATION Project Number: 12-1151-0155 Client: <u>COVACTA</u> Site Location: <u>Daclington</u> SITE DATA


Time	11:55pm	]
Surveyed reference point	1	
Water Depth at Staff Gauge (m)	Scm	
Stream Width (m)	0.75m	
Stagnant	(e) / No -	aminima)
Flow Rate		

	Logger N	umber		
Log	or Download	Time		
	Pholos T	eken. Ye	/ No (#	

SW-2

JUNA PH

Date:

Sampled By:

Location ID

Golder

4

27 201

SAMPLING PARAMETER

Time	Dissolved Oxygen mg/L	Conductivity mS or ((s)	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour
11:55		641	6.35		17.8		little colour	None

SAMPLING RECORD

Sampling Method: Hand	Sample ID: SW-2
Sample Depth:	Dup taken? / Dup ID: Yes, 5W-2 DUP
Time Sampled: 11:55	
Sample Appearance: Very little	Turbidity: Low / Medium / High
odour Non 2°	,
Sample Container and Preservation:	

DESERVATIONS	1	
Weather Conditions:		
Temperature:		
Current Precipitation:		
Precipitation of past 24 / 48 hrs:		
Notes:		

Golder

June 27, 2017

Date:

Sampled By:

PROJECT INFORMATION Project Number 12-1151-0155 Client: Covanta Site Location: Darlinston

SITE DATA

Time	12:50	Location ID SU-	.3
Surveyed reference point		Barbarten - van som af star men af de star state - van star star star star star star star star	
Water Depth at Staff Gauge (m)	10cm.	Logger Number	
Stream Width (m)	0.3m	Loger Download Time	······································
Stagnant	Yes No.		/es/No(#)
Flow Rate		Photo Location	

SAMPLING PARAMETER

Time	Dissolved Oxygen mg/L	Conductivity	рН pH Units	Redox Potential mV	Temperature "C	Turbidity	Colour	Odour
12:50		1130	7.15		17.0			4) P

SAMPLING RECORD

Sample Appearance:

Sampling Method:	By Hand	
Sample Depth:	J	
Time Sampled:	12:50	

NONE .

Sample ID:	SW-3
(Dup teken) / Dup ID:	5W3-040
Ves.	

Turbidity: Low / Medium / High

Sample Container	and Preservation:	
------------------	-------------------	--

Colour:

Odour: NOAS

DBSERVATIONS	ALC: NOT THE REAL PROPERTY OF	
Weather Conditions: Temperature:		
Current Precipitation:		
Precipitation of past 24 / 48 hrs:		
Notae:		



PROJECT INFORMATION Project Number: 12-1151-0155 Client: COVACTO Site Locetion: Dachington	Date: JUNE 27,2012 Sempled By: PH/JH
SITE DATA	
Time 12:25	Location to Star-4_
Survayed reference point	
Water Depth at Staff Gauge (m)	Logger Number
Streem Width (m) (). 5 rv;	Loger Download Time
Stagnant Yes No	Photos Taken (Yer) / No (#)
Flow Rate	Photo Lacation

SAMPLING PARAMETER

Time	Dissolved Oxygen	Conductivity	pH pH Units	Redox Poiential mV	Temperature *C	Turbidity	Colour	Oxiour
12:25	mg/L	998	6.64		15.9		None	None.

SAMPLING	RECORD			
		12.	, He	

By Hand Sampling Mothed: 20 cm Sample Depth: \_\_\_\_ 12:25 Time Sampled:

Sample ID: SW LE Dup taken? / Dup ID: YES - CW LL -DCAD -

Sample Appearance: Normal colour

Turbidity: Low / Medium / High

Sample Container and Preservation:

Odour:

BSERVATIONS		
Weather Conditions: Temperature:		
Current Precipitation:		
Precipitation of past 24 / 48 hrs:		
Notes:		

PROJECTINFORMATION /									
Project Number: 12-1151-0155						Dato: Jaio	9 27. 2012 TH		
	Client:	/	a				Sampled By: <u>PH</u>	154	
5	Site Location:	Darlin	ia ton						
			)						
SITE DA	TA				7				1
		Timə	1:30	pm			Location ID SON	P-W-OUT	
	Surveyed	reference point							
Wa	ter Depth at S	Stafi Gauge (m)	20cr	5%			Logger Number		ĺ
	St	ream Width (m)	0.51	w.	1		Loger Download Time		
		Stagnant			deing pump	(teo by	Photos Taken	Yes / No (# )	1
	and a second sec	Flow Rate				-gif	Photo Location		
					1		Photo Cocation	and the second se	1
SAMPLI	NG PARAM	ETER							
Time	Dissolved Oxygen mg/L	Conductivity mS of uS	pH pH Units	Redox Potentia! mV	Temperature °C	Turbidity	Colou;	Odour	]
1:30		640	7,47		20.8		Slighth hirloid gray, bit down	None.	
	NG RECOR	A	and.		1.2.2			4p-10-00t	
Sam; Si Ti Sample A	oling Method: ample Depth: me Sampled: ppearance: Colour: Odour:	By H	Sightly	y tarbiı	1,64 B	- sur	Sample ID: 500	500 - 60 - 60 - 60 - 60 - 60 - 60 - 60 -	st - 10 iqe
Samp Si Ti Sample A Sample C	oling Method: ample Depth: me Sampled: 	By Ho 1:30p Grey, S No M	Sightly	y tarbin	5,64 (B	- sur	iken?) Dup ID: 185	500 - 60 - 60 - 60 - 60 - 60 - 60 - 60 -	y - 10 ye
Samp Si Ti Sample A Sample C	oling Method: ample Depth: me Sampled: ppearance: Colour: Odour:	By Hi 1:30 p Grey, 9 No M.	Sightly	<u>j torbi</u>	- - - -	- sur	iken?) Dup ID: 185	500 - 60 - 60 - 60 - 60 - 60 - 60 - 60 -	- H - D 49
Samp Si Ti Sample A Sample C	oling Method: ample Depth: me Sampled: 	By Hi 1:30 p Grey, 9 No M.	in Sightu		-	- sur	iken?) Dup ID: 185	500 - 60 - 60 - 60 - 60 - 60 - 60 - 60 -	eyi Ci - H.
Samp Si Ti Sample A Sample C	oling Method: ample Depth: me Sampled: 	By Hi 1:30 p Grey, 9 No M -	sightu		_	- sur	iken?) Dup ID: 185	500 - 60 - 60 - 60 - 60 - 60 - 60 - 60 -	eyi Ci - 17.
Samp Ti Sample A Sample C Sample C	oling Method: ample Depth: me Sampled: Colour: Odour: container and varions varions Curre	ByHi 1:30 p Grey, 9 No M. Preservation: Tempersture:	sighta		-	- sur	iken?) Dup ID: 185	500 - 60 - 60 - 60 - 60 - 60 - 60 - 60 -	yt - 10 yt
Samp Ti Sample A Sample C Sample C UBSER Weathe	oling Method: ample Depth: me Sampled: Colour: Odour: container and varions varions Curre	By Hi 1:30 g Grey, 9 No M. Preservation: Temperature: nt Precipitation: past 24 / 48 hrs:	sighta		-	- sur	iken?) Dup ID: 185	500 - 60 - 60 - 60 - 60 - 60 - 60 - 60 -	- H - D W
Samp Ti Sample A Sample C Sample C UBSER Weathe	oling Method: ample Depth: me Sampled: colour: Colour: Odour: container and varions varions r Conditions: Curre	By Hi 1:30 g Grey, 9 No M. Preservation: Temperature: nt Precipitation: past 24 / 48 hrs:	sighta		-	- sur	iken?) Dup ID: 185	500 - 60 - 60 - 60 - 60 - 60 - 60 - 60 -	eyi Ci - H.



PROJECT INFORMATION	a de l'actor d'anna a stateste ang	
Project Number: 12-115	1-0155	Date: Sept 6th 2012
Client: Covast		Sampled By: <u>PH / JH</u>
Site Location:	gton_	
SITE DATA		
Time	11:05	Location ID SW-1

Surveyed reference point		
Water Depth at Staff Gauge (m)		
Stream Width (m)	Im (lotofu	egetation)
Stagnant	Yes / No	Ū.
Flow Rate	Slowflow	

Logger Number	
Loger Download Time	
Photos Taken	Yes / No (#)
Photo Location	

SAMPLING PARAMETER

Time	Dissolved Oxygen mg/L	Conductivity	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour .	
		0.27	7.73		23,1		Slights brown	· Slightly swamp	lorgenie Billow

SAMPLING RECORD

Sampling Method:	Sample ID:
Sample Depth:	Dup taken? / Dup ID: Yes Sw-1-DuP
Time Sampled: 11:05am.	-
Sample Appearance: Colour: Slight brown Odour: Slight hibid) Sample Container and Preservation:	Turbidity: Low / Medium / High
OBSERVATIONS	
Weather Conditions: Temperature:	
Current Precipitation:	
Precipitation of past 24 / 48 hrs:	
Notes:	
	· · · · · · · · · · · · · · · · · · ·

0.54

Flow Rate

trom



Photo Location

PROJECT INFORMATION	
Project Number: 12 -11 51 - 0155	Date: Sept 6th 2012
Client: Covanta	Sampled By: PH / TH
Site Location: Clausington.	

Time	11:25	
Surveyed reference point		
Water Depth at Staff Gauge (m)	.1)	Logger Number
Stream Width (m)	1.5	Loger Download Time
Stagnant	Yes / No	Photos Taken Yes / No (#

SAMPLING PARAMETER

Time	Dissolved Oxygen mg/L	Conductivity	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour
11.2	5	0.48	7.74		22.3		slightly bour	n None

SAMPLING RECORD

Sampling Method:	Hand	Sample ID:	
Sample Depth:	8-10"	Dup taken? / Dup ID: 195	SW-2-DUP
Time Sampled:	11:25		
Sample Appearance: Colour:	Slightly brown	Turbidity: Low M	edium / High
Odour:	None		
Sample Container and	Preservation:		
			<u>P</u>
OBSERVATIONS			
Weather Conditions:			ne na nanang nganga pang kang na kang na
	Temperature:		
Current	Precipitation:		
Precipitation of pas	st 24 / 48 hrs:		
Notes:			

Slow.

Flow Rate



Photo Location

)

PROJECT INFORMA	TION		
Project Number:	12-1151-0155	Date: 6th Sept 20	517
Client:	Couanta	Sampled By: <u>5H/PH</u>	
Site Location:	SW-J		

SITE DATA SW-3 Time 12:02 Location ID Surveyed reference point Water Depth at Staff Gauge (m) Logger Number Stream Width (m) 2 ft Loger Download Time Yes No Stagnant Photos Taken Yes No (# -Peter.

SAMPLING PARAMETER 

Time	Dissolved Oxygen mg/L	Conductivity	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour	]
2:02		1.03	7.94		20.1	low-med	Clear brown	mild organic:	grassy -
						lin			1
SAMPLI	NG RECOP	ID		2.5					2
Samp	ling Method:	Bah	and .		_		Sample ID: <u>Sw</u> -	3	
Sa	mple Depth:	6"				Dup tak	en? / Dup ID: Yes	SW-3-Dup	
Tin	ne Sampled:	12:0	02						
Sample A	ppearance: Colour:		r brow					lium/ High	
	Odour:	NON	(mild	orgenic	)		Low-n	ned.	
Sample C	ontainer and	Preservation:							

OBSERVATIONS		र्ग्राम् संस्थितः संस्थिति संस्थिति स
Weather Conditions: Temperature:		
Current Precipitation:		
Precipitation of past 24 / 48 hrs:		
Notes:		
	5.0 × 1	
	- J. W	
	<u>je</u>	

.

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PROJECT INFORMATION	
Project Number: 12-1151-0155	Date: Sen br
Client: Counta	Sampled By: <u>THYPH</u>
Site Location:	

STE DATA

Location ID SW-4

Time	11:45
Surveyed reference point	
Water Depth at Staff Gauge (m)	
Stream Width (m)	2 M -
Stagnant	Yes /No
Flow Rate	low

Logger Number	
Loger Download Time	
Photos Taken	Yes / No (#)
Photo Location	

SAMPLING PARAMETER

Time	Dissolved Oxygen mg/L	Conductivity	pH pH Units	Redox Potential mV	Temperature °C	Colour	Odour
11:45		0.64	7.79		21.2%	Lightbrash	None

SAMPLING RECORD

Sampling Method: By Hand Sample Depth: 2.54	Sample ID: Dup taken? / Dup ID: <u>Ves</u> SG-YDup
Time Sampled: 11:4 5 m	•
Sample Appearance: Colour: Light bound Odour: None	Turbidity: Low / Medium High
Sample Container and Preservation:	
OBSERVATIONS	
Weather Conditions: Temperature:	
Current Precipitation:	
Precipitation of past 24 / 48 hrs:	
Notes:	

SURFACE WATER S	AMPLING	RECORD	FORM
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CE WATE	R SAMPLIN	IG RECOR	DFORM			(	Golder	
ject Number: Client:	12-1151 Covan	ta				Date: Sept Sampled By: PH	5# 2012 5H	
TA								
	Time					Location ID W-50	JMP-IN	
Surveyed	reference point	Necir to	inlet			·ï		
						Logger Number		
St						Loger Download Time		
			/ No			Photos Taken	Yes / No (#)	
	Flow Rate			]		Photo Location		
NG PARAM	ETER							
Dissolved Oxygen mg/L	Conductivity	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour	
	0.7	8.20		24°C		Gray Webild.	None.	
pling Method: ample Depth: ime Sampled: Appearance: Colour: Odour:	Swin 2ft. 10:20 Slight None	Dar.		-	Dup ta	ken? / Dup ID:	W-SWMP-1	N - DUP
er Conditions Curre ecipitation of	Temperature ent Precipitation	Neni			-			-
	TINFORM/ ject Number: Client: Site Location: TA Surveyed ter Depth at S St NG PARAM Dissolved Oxygen mg/L NG RECOR pling Method: ample Depth: ime Sampled Appearance: Colour Odour Container and	TINFORMATION ject Number: 12-1151 Client: Cov/AD Site Location: DATION Site Location: DATION Stream Width (m) Stream Width (m) Stream Width (m) Stream Width (m) Stagnant Flow Rate NG PARAMETER Dissolved Oxygen mg/L O.7 NG RECORD pling Method: Soo Appearance: Colour: SugAt Colour: None Colour: None Colour: None Container and Preservation: Container and Preservation: Current Precipitation ecipitation of past 24 / 48 hrs	TINFORMATION         ject Number:       12-1151-0155         Client:       Covaria         Stream Vidth (m)       Part in at 50 mmm         Tra       Time       10 ; 2 mmm         Tra       Time       10 ; 2 mmm         Surveyed reference point       Nicrit for         ter Depth at Staff Gauge (m)       Stream Width (m)       Pond.         Stream Width (m)       Pond.       Stagnant       (re)         Flow Rate       Flow Rate       Philosoftee       Philosoftee         NG PARAMETER       Dissolved       Conductivity       pH         Mg/L       0.7       8.20       NG RECORD         pling Method:       Survey apple       2 ft .         ime Sampled:       10: 20 cmm       Appearance:       2 ft .         Colour:       Stightly durity       None       Container and Preservation:         VATIONS       Temperature:       30 <sup>3</sup> mm       Stagnation         ecipitation of past 24 / 48 hrs:       Million of past 24 / 48 hrs:       Million of past 24 / 48 hrs:	Ject Number: 12-1151-0155 Client: Cov/arrta Site Location: Darlington TA Time 10:25 am Surveyed reference point Nigric & inlef ter Depth at Staff Gauge (m) Stream Width (m) Pond. Stagnant Yes/ No Flow Rate	TINFORMATION ject Number:       []2-1151-0155 Client:         Construction:       Dar Lington         TA         Ta         Time 10:25 com         Ta         Time 10:25 com         Surveyed reference point Night to inleft ter Depth at Staff Gauge (m)         Surveyed reference point Night to inleft         Stream Width (m) Pond.         Stream Width (m) Pond.         Stream Width (m) Pond.         Stagnant (re) / No         Flow Rate         Dissolved Oxygen Conductivity pH Potential Temperature registration         On 24°C         NG PARAMETER         Dissolved Oxygen Conductivity pH Units mV         On 24°C         NG RECORD         pling Method:         Swing pole:         On 2 Container and Preservation:         Container and Preservation:         VATIONS         er conditions:         Temperature:	TINFORMATION ject Number: 12-1151-0155 Client: Covranta Site Location: Darling Ton         TA         Ta         Ta         Surveyed reference point         Nicht to inlet         ter Depth at Staff Gauge (m)         Stream Width (m)         Flow Rate         NG PARAMETER         Dissolved Oxygen         Conductivity         pH Units         mg/L         O.7         8.20         24°C         NG PARAMETER         Dissolved Oxygen         Conductivity         pH Units         mg/L         O.7         8.20         24°C             NG RECORD             piling Method:         Suing pole:         ample Depth:         2ff .         Dup ta         odour:         No.2         Cotour:         Suightly         Appearance:         Cotour:         Suightly         VATIONS         er Conditions:         Temperature:         30° L         Current Precipitation:	TINFORMATION         Get Number:       13-1151-0155         Client:       Covered         Sampled By:       PH         Starsam Vidth (m)       Pock.         Straam Width (m)       Pock.         Straam Vidth (m)       Pock.         Bio Location:       Discrete Starsam Vidth (m)         Photos Taken       Photos Taken         Digger Physics       PH Units       Turbidity: Colour         MG RECORD       Sample Depth:       2ft         Single Depth:       2ft       Sample Depth:         2ft       Sample Depth:       2ft         Colour:       Note       Sample Depth:         Odour:	TINFORMATION       Date: Sock 5th 2012         Bed Number: [] 2-1151-0155       Date: Sock 5th 2012         Citent: Cov/archa       Sampled By: PHI_JTH         Ta       Imma 10:25 army         Surveyad reference point: Netric 5 (nlet)       Logger Number         Stream Width (m)       Pond.         Stagnant: (*) / No       Photo Teken Yes / No (#         Flow Rate       Photo Teken Yes / No (#         Objected: Conductivity pH       Petential         Magnant: (*) / No       Photo Teken Yes / No (#         Flow Rate       Photo Logger Number         Conductivity pH       Petential         Magnant: (*) / No       Photo Steken Yes / No (#         Photo Logger Number       Logger Number         Logger Rumber       Date: Sock 9 Polic         Sample Depth: (10:20 cn/n).       Turbidity       Colour         Odour: None       Sample Depth: (10:20 cn/n).       None (10:20 cn/n).         Appearance: Suightly thr bid       Turbidity: Low Medium/ High         Odour: None       Sample ID: (10:20 cn/n).       Network (10:0)         VATIONS       er Conditions: Net C.       Net C.         eroperature:



Project INFORMATION Project Number: <u>12 ~ 1151 - 0155</u> Client: <u>Covento</u>. Site Location: <u>E - SW/M</u>?-1/V

Time	12.30	Location ID
Surveyed reference point		
Water Depth at Staff Gauge (m)	2.Sft.	Logger
Stream Width (m)	Pond.	Loger Downlo
Stagnant	Yes) No	Photos
Flow Rate		Photo

Date:\_ 6th 0 Sampled By:

Location ID \$ E-SWMP-IN

Logger Number	
Loger Download Time	
Photos Taken	Yes / No (#)
Photo Location	

Time	Dissolved Oxygen mg/L	Conductivity	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour
		0.46	8,33		26.80	-	Grey turbid	None -

Sampling Method:	Swing pole	Sample ID:
Sample Depth:		Dup taken? / Dup ID: Yes E-Scom P-IN-I
Time Sampled:	12:30	
ample Appearance: Colour: Odour:	Grey, bubid.	Turbidity: Low / Medium (High
ample Container and F	Preservation:	ren-nye.
Weather Conditions:		
Weather Conditions:	Femperature:	
Weather Conditions:		
Weather Conditions: ۲ Current I	Femperature:	
Weather Conditions: Current l Precipitation of pas	Femperature:	
Weather Conditions: Current l Precipitation of pas	Femperature: Precipitation: tt 24 / 48 hrs:	



PROJECT INFORMATION	
Project Number: <u>12 - 1161 - 0155</u>	Date: 6th Sent
Client: CENCOLO	Sampled By: PH 1 TH -
Site Location:	• /

Time	1:04	Location ID 🔛 - Su	SMP-OUT
Surveyed reference point			
Water Depth at Staff Gauge (m)		Logger Number	
Stream Width (m)		Loger Download Time	
Stagnant	Yes / No	Photos Taken	Yes / No (#
Flow Rate	Flow -slow	Photo Location	

Location ID W-S	SMP-OUT
Logger Number	
Loger Download Time	
Photos Taken	Yes / No (#)

Time	Dissolved Oxygen mg/L	Conductivity	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour
1:04		0.65	8.14		25.4		Crey clear,	Non

SAMPLING RECORD	
Sampling Method: By Hand	Sample ID:
Sample Depth: 5"	Dup taken? / Dup ID: Yes W-SWMP-DUT
Time Sampled: 104.	
Sample Appearance: Clear Grey turbid	Turbidity: Low Medium / High
Odour: Now	_
Sample Container and Preservation:	

Weather Conditions: Temperature:		_	
Current Precipitation:		-	
Precipitation of past 24 / 48 hrs:	· · · · ·	-	
Notes:			 



PROJECT INFORMATION	
Project Number: 12-1151-0155	Date: 6th Sept 2012
Client: Coventa	Sampled By: PH/JH -
Site Location:	

Time	1:00		Location ID	WMP-OUT
Surveyed reference point		* Gravity		
Water Depth at Staff Gauge (m)		* Gravity flow (nopump)	Logger Number	
Stream Width (m)		(no pump)	Loger Download Time	
Stagnant	Yes /No		Photos Taken	Yes / No (#
Flow Rate	flowing out -	slaw.	Photo Location	

SAMPLING PARAMETER

Time	Dissolved Oxygen mg/L	Conductivity mS or μS	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour
1·00		Q.45	8.33		24.4'		Clear, torbid.	Nom.

SAMPLING RECOR	D	
Sampling Method:	By hend .	Sample ID:
Sample Depth:	34	Dup taken? / Dup ID: You ESWMP-007
Time Sampled:	1: 00pm	, , ,
Sample Appearance: Colour:	Clear Grey tarbid	Turbidity: Low Medium / High
- Odour:_	None	

Sample Container and Preservation:

Weather Conditions: Temperature:			
Current Precipitation:		_	
Precipitation of past 24 / 48 hrs:			
Notes:	······································	·	<u> </u>

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SURFA	CE WATE	ER SAMPLIN	G RECO	rd form			1	Golder
	TINFORM		515.53	Sc. J.	377	the Terver	A STATE OF A	S. S. MARRIER
Proj		12-1151		5			Date: 2815	ept, 2012
	Client	Covan	ta	-			Sampled By: PH	24
S	lite Location:	Parting	<u>grana</u> (	Claning	Ita			
SITE DA	ТА	at the second	RATE	and the second	a strange bas	- 16 h La		
		Time	10:2	lam			Location ID SW	1
	Surveyed	reference point						
Wat	er Depth at	Staff Gauge (m)	Sind	NIA C			Logger Number	
_	St	ream Width (m)	1				Loger Download Time	
		Stagnant	Yes	No	- 20(0)		Photos Taken	0
		Flow Rate	mini	nal.	1		Photo Location	0
					1			
SAMPLIN	NG PARAM	ETER	15786	gitter ( m) (	Tel and	A. 1915		
Time	Dissolved Oxygen mg/L	Conductivity mS or $\mu$ S	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour
10:21		615115	7.40		14,7		Clear	None
Tin Sample Ap	ne Sampled: opearance: Colour: Odour: ontainer and	Clear	ches			Dup te	ken? / Dup ID: <u>Sv</u> Turbidity: w Med	I-рор lum / High
	loitation of p	Temperature: ht Precipitation: ast 24 / 48 hrs:			culve	rt - ca	sate level ve	ry low, needed

8 a. ...

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	Client:	12-1151 Covante Claring	2				Date: 28 <sup>th</sup> Sampled By: Jess	Sept, 2012 ica Honschell, Pet
TE DA	TA	123.344			<u> (1996)</u>			
		Time	10:40	).			Location ID	512
	Surveyed r	eference point						
Wate	er Depth at St	taff Gauge (m)					Logger Number	
	Stre	eam Width (m)	1.5	m			Loger Download Time	
		Stagnant	Yes	NO			Photos Taken	Yes / No (#)
		Flow Rate					Photo Location	1
						automotics/178.783	THE REPORT OF THE PARTY OF TH	NA STORATORY COMPLETING
AMPLI	NG PARAN	ETER .		Redox		9-1-1-1-2-2-2	n des norde sin fan de de F	1
Time	Dissolved Oxygen mg/L	Conductivity mS or	pH pH Units	Potential	Temperature °C	Turbidity	Colour	Odour
0.10					120	2	None	None
Samp Samp	NG RECOF	_1tar			13, 8	Dup tak	sample ID: xen? / Dup ID:	2
Samp Sa Tin ampte A	NG RECOF sling Method: ample Depth: me Sampled: Appearance: Colour: Odour:	110:4	13 lear		- - - -	Dup tak		2 2 - Dup



PROJECT INFORMATION Project Number: 12 -1151-0155	Date: 28" September, 2012
Client: Covanta	Sampled By: Jessica Hanschell Peter Heber
Site Location: Claring ton	
5	
	a construction and the market state of the
SITE DATA	
SITE DATA	Location ID SW# 3

	Water Depth at Staff Gauge (m)
60 cm.	Stream Width (m)
Yes /No	Stagnant
low	Flow Rate

Logger Number		
Loger Download Time		_
Photos Taken	Yes No (#	_
Photo Location	<u> </u>	

SAMPLING PARAMETER

Time	Dissolved Oxygen mg/L	Conductivity mS of µS	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour
11:11cm		1185	7.70 .		12.6		Clar, to bay,	no smell.
							0	

SAMPLING RECORD

Sampling Method:	Swing pole.	Sample ID:
Sample Depth:	164.	Dup taken? / Dup ID:
Time Sampled:	11:11am	
Sample Appearance: Colour:	clear to brown theye.	Turbidity Loy /
Odour:	nom	0

Medium / High

DUP

Sample Container and Preservation:

Sampling from a shaded oreg.

OBSERVATIONS Weather Conditions:

Temperature:

Current Precipitation:

Precipitation of past 24 / 48 hrs:

Notes:



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Site Location:	Project Number:       12-1151-0155         Client:       Covanta         Site Location:       Clarington         ITTE DATA       Time         Surveyed reference point       Logger Number         Water Depth at Staff Gauge (m)       2 m ·         Stream Width (m)       2 m ·         Flow Rate       Photos Taken         Time       Dissolved         Oxygen       ms o(µS)         mg/L       pH Units         Time       Dissolved         Sample Appearance:       Colour:         Colour:       Nonc.         Sample Appearance:       Colour:         Colour:       Nonc.	Project Number:       12-1151-0155         Client:       COVANTA         Site Location:       Clarington         Time       101: 59 and .         Surveyed reference point       Logger Number         Water Depth at Staff Gauge (m)       Logger Number         Stream Width (m)       2 m -         Stagnant       Steam Width (m)         Flow Rate       Photos Taken (Yes) No (#         Photos Taken (Yes) No (#       Photos Location         SampLING PARAMETER       "C         Time       Obsolved         Onsygen       Conductivity pH         Pederation       Temperature         Time       Obsolved         Osygen       So (uS pH Units mV         Sampling Method:       Survey pol (.         Sampling Method:       Survey pol (.         Sample Appearance:       Survey pol (.         Sample Appearance:       Clocation         Sample Appearance: <th>ROJECT INFORMATION</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Associates</th>	ROJECT INFORMATION						Associates		
Client:       Covanta         Site Location:       Clarington         Time       10; 59 an .         Surveyed reference point       Loger Number         Water Depth at Staff Gauge (m)       Loger Number         Stream Width (m)       2 m .         Flow Rate       Photos Taken         Time       Dissolved mg/L       Conductivity         PH       Pedox         Time       Oxygen       Conductivity         Mg/Lind PARAMETER       Turbidity       Colour         Odour       Odour       Odour         Sample Depth:       1.5 ft.       Turbidity         Sample Appearance:       Stagen       Sample Appearance:         Sample Appearance:       Odour:       Monu         Sample Appearance:       Odour:       Monu         Sample Appearance:       Odour:       Monu         Sample Appearance:       Odour:       Monu         Sample Appearance:       Monu       Turbidity       Medium / High	Client:       Covanta         Site Location:       Clarington         Time       10; 59 an .         Surveyed reference point       Loger Number         Water Depth at Staff Gauge (m)       Loger Number         Stream Width (m)       2 n .         Flow Rate       Photos Taken         Time       Dissolved mg/L       Colour         Dissolved mg/L       Conductivity       pH         Photos Taken       Yee No (#         Photos Taken       Yee No (#         Photos Taken       Yee No (#         Time       Oxygen       Conductivity         Mg/Ling PARAMETER       Turbidity       Colour         Sample Depth:       105 A       7.3 8       13.2 C       Clear       Non.         Sample Depth:       10.5 fl.       Sample Depth:       Subject Conductivity       Dup taken? / Dup ID:       Subject Conductivity         Sample Appearance:       Clour:       Clour       Non.       Material         Sample Appearance:       Otour:       Material       Turbidity Low       Medium / High	Time       Coloriting       Sampled By: Jessica Honschell Pe         Site Location:       Clarington         Image: Stream Width (m)       Image: Stream Width (m)       Image: Stream Width (m)         Stream Width (m)       Image: Stream Width (m)       Image: Stream Width (m)         Stream Width (m)       Image: Stream Width (m)       Image: Stream Width (m)         Stream Width (m)       Image: Stream Width (m)       Image: Stream Width (m)         Flow Rate       Photos Taken       Yea / No (#         Photos Conductivity       PH       Pedox         Flow Rate       Photos Taken       Yea / No (#         Time       Coxygen       Conductivity       PH         Market Potential       Temperature       Turbidity       Colour         Oxygen       Conductivity       PH       Protos Taken       Yea / No (#         Time       Coxygen       Conductivity       PH       Protos Taken       Yea / No (#         Sample Dissolved       Conductivity       PH       Protos Taken       Yea / No (#       Yea / No (#         Sample Depth:       1.05 A       7.3 8       13.2 C       Clear       Non       Non         Sample Appearance:       Sample Appearance:       Sample Appearance:       Turbidity Image: Mediu		a and a second and	NO STR		NO MARK	200	2012		
Site Location:	Site Location:	Site Location:			5			Date: 40 3	Honschell Pe		
Time       10:59 an         Surveyed reference point       Logger Number         Water Depth at Staff Gauge (m)       2 m -         Stream Width (m)       2 m -         Stagnant       Steam Width (m)         Flow Rate       Photos Taken         Photos Taken       Steam No (#         Photos Taken       Photos Conductivity         PH       Pedox         Time       Dissolved         Oxygen       ms o(µS)         PH Units       Temperature         Time       Dissolved         Sample Depth:       105 A         Sample Depth:       1.5 ft.         Time Sampled:       D: 59am         Sample Appearance:       Colour         Colour:       Clact.         Odour:       Nonu         Sample Appearance:       Clact.         Colour:       Nonu         Sample Container and Preservation:       Turbidity Color Medium / High	Time       10:59 an         Surveyed reference point       Logger Number         Water Depth at Staff Gauge (m)       2 m -         Stream Width (m)       2 m -         Stagnant       Steam No         Flow Rate       Photos Taken (res) No (#)         Photos Taken (res) No (#)       Photos Conductivity         priore       Flow Rate         Time       Dissolved (conductivity)         pH       Pedox         mg0L       105 Å         052 h       13.2 L         Clear       Non .         Sample Depth:       1.5 ft.         Time Sampled:       10:5 ft.         Sample Appearance:       Colour:         Colour:       Clear         Nonu       Turbidity (row) Medium / High	Time       10:59 an         Surveyed reference point       Lagger Number         Water Depth at Staff Gauge (m)       2 m         Stream Width (m)       2 m         Flow Rate       Photos Taken         Photos Taken       res) No (#         Photos Conductivity       pH         Predext       Turbidity       Colour         Odour       Odour       odour         Sample Depth:       1.5 ft.       Dup taken? / Dup ID:         Sample Appearance:       Colour:       Clear.         Colour:       Monu       Turbidity for Medium / High						Sampled By. OCOULS			
Time       10: 59 an .         Surveyed reference point       Location ID         Water Depth at Staff Gauge (m)       Logger Number         Stream Width (m)       2 M ·         Stagnant       Vee No         Flow Rate       Photos Taken         Oxygen       mg/L         Dissolved       Conductivity         pH       Pedental         remperature       Turbidity         Colour       Odour         Oxygen       mg/L         105 2       7.38         13.2 C       Clear         Non .       Sample Depth:         1.5 ft.       Dup taken? / Dup ID:         Sample Appearance:       Colour:         Colour:       Non .         Sample Appearance:       Colour:         Colour:       Non .         Sample Container and Preservation:       Turbidity Colour / High	Time       10: 59 an .         Surveyed reference point       Image: Surveyed reference point         Water Depth at Staff Gauge (m)       Image: Surveyed reference point         Stream Width (m)       2 M ·         Stagnant       Stream Width (m)         Stagnant       Stream Width (m)         Flow Rate       Photos Taken         MPLING PARAMETER       Photos Taken         Time       Dissolved Oxygen       Conductivity         pH Units       Perfective       Turbidity         Colour       Odour       Odour         0.59a h       105 2       7.38       13.2 °C         Sample Depth:       1.5 °C       Sample Appearance:       Sub 24 Oxy         Colour:       Monu       Sub 24 Oxy       Dup taken? / Dup ID:       Sub 24 Oxy         Sample Appearance:       Ocour:       Monu       Turbidity Colour / High         Odour:       Nonu       Monu       Turbidity Colour / High	ITIME 10: 59 am .         Surveyed reference point         Water Depth at Staff Gauge (m)       Logger Number         Stream Width (m)       2 M ·         Stream Width (m)       2 M ·         Flow Rate       Photos Taken (res) No (#         Photos Taken (res) No (#       Photos Taken (res) No (#         Bissolved (Dxygen model time)       PH Potential (respective)       Photos Colour         Oxygen mg/L       Dissolved (respective)       Colour       Odour         59a h       105 2       7.38       13.2 C       Clear (res) (res	Site Location:	giva							
Surveyed reference point         Water Depth at Staff Gauge (m)         Stream Width (m)       2 M ·         Stream Width (m)       2 M ·         Stagnant       Yes No         Flow Rate       Photos Taken         Dissolved Conductivity       pH         Period       Period         Time       Oxygen ms o(µS)         ms o(µS)       pH Units         Time       Oxygen ms o(µS)         Stagnant       Yes No         ************************************	Surveyed reference point         Water Depth at Staff Gauge (m)         Stream Width (m)       2 M ·         Stagnant       Yes No         Flow Rate       Photos Taken         Dissolved       Conductivity         Dissolved       Conductivity         mg/L       pH         Pedox       Temperature         Time       Oxygen         mg/L       ms o(µs)         pH Units       mV         °C       Turbidity         Colour       Odour         Obsolved       Clean         Non       .         Sampling Method:       Sub ing pole         Sample Appearance:       Colour:         Colour:       Non         Odour:       Non         Non       .         Sample Appearance:       Colour:         Colour:       Non         Odour:       Non         Non       .         Sample Appearance:       Colour:         Colour:       Non         Sample Container and Preservation:       Sample Container and Preservation:	Surveyed reference point         Water Depth at Staff Gauge (m)         Stream Width (m)       2 M ·         Stagnant       Yes No         Flow Rate       Photos Taken         Dissolved       Conductivity         pH       Pedox         Potential       mV         °C       Turbidity         Colour       Odour         Obsolved       Monto         Stagnant       ************************************	TE DATA				NU BANK				
Water Depth at Staff Gauge (m)       Image: Conductivity of the stage	Water Depth at Staff Gauge (m)       Image: Construction of the servet of	Water Depth at Staff Gauge (m)       Image: Conductivity of the conductity of the conductivity of the conductivity of the cond	Ті	me 10: 5°	lan.			Location ID SW	D #4		
Stream Width (m)       2 M ·         Stagnant       Vest No         Flow Rate       Photos Taken         Photos Taken       Vest No (#)         Photos Conductivity       PH         Protos Taken       Vest No (#)         Photos Conductivity       PH         Protos Taken       Vest No (#)         Photos Conductivity       PH         Protos Conductivity       PH         Photos Conductivity       PH         Sampling Method:       Sub Cog Pole         Sample Depth:       1.5 ft.         Time Sampled:       10:5 ft.         Colour:       Class Container and Preservation:         Sample Container and Preservation:	Stream Width (m)       2 M ·         Stagnant       Vest No         Flow Rate       Photos Taken         Photos Taken       Vest No (#)         Photos Conductivity       PH         Protos Taken       Vest No (#)         Photo Location       Photo Location         AMPLING PARAMETER       Temperature       Turbidity         Colour       Odour       Odour         Dissolved       ms o(µS)       PH Units       Temperature         mg/L       ms o(µS)       PH Units       Temperature       Turbidity         Obsygen       mg o(µS)       PH Units       mV       °C       Turbidity         Obsygen       mg o(µS)       PH Units       mV       °C       Turbidity       Odour         Obsolved       MS o(µS)       No (µS)       No (µS)       Semple Dour       Semple ID:       Swith Doup         Sample Appearance:       Colour:       Ocour       Dup taken? / Dup ID:       Swith Doup         Colour:       No N       Turbidity Low Medium / High       Turbidity Cow Medium / High	Stream Width (m)       2 M ·         Stagnant       Vest No         Flow Rate       Photos Taken         AMPLING PARAMETER         Time       Dissolved Oxygen mg/L       Conductivity       pH         Perform       Potential mV       °C       Turbidity       Colour         Odour       0.59a h       105 Å       7.38       13.2°L       Clear       Non ·         Sampling Method:       Sub ing pole ·       Sample Depth:       1.5 ff ·       Dup taken? / Dup ID:       Swith Oup         Sample Appearance:       Clour:       Utac ·       Turbidity Low Medium / High         Odour:       None       Turbidity Low Medium / High	Surveyed reference po	pint							
Stagnant       Yes       No         Flow Rate       Photos Taken       Yes       No (#)         AMPLING PARAMETER       Photo Location       Photo Location         Time       Dissolved       Conductivity       pH       Redox         mg/L       Odour       pH Units       Temperature       Turbidity       Colour       Odour         0.59a       105 2       7.38       13.2 C       Clear       No.4         Sampling Method:       Swigpold       Swigpold       Suppold       Suppold       Suppold         Sample Depth:       1.5 Ft.       Dup taken? / Dup ID:       Swigpold       Swigpold       Swigpold         Time Sampled:       10:5 9 am       Suppold       Turbidity       Medium / High	Stagnant       Photos Taken       Photos Taken <th colspan="2" photos<="" t<="" td=""><td>Stagnant       Yes       No         Flow Rate       Photos Taken       Yes       No (#)         AMPLING PARAMETER       Photo Location       Photo Location         Time       Dissolved       Conductivity       pH       Redox         mg/L       Odour       pH Units       mV       occ       Turbidity       Colour       Odour         0.59a       105 2       7.38       13.2 C       Clear       No.4       No.4         AMPLING RECORD       Sample Depth:       1.5 ft.       Dup taken? / Dup ID:       Swith 4 Dup         Sample Appearance:       Colour:       Clear       No.4       Turbidity Low Medium / High         Colour:       No.4       No.4       Turbidity Low Medium / High       Turbidity Low       Medium / High</td><td>Water Depth at Staff Gauge</td><td>(m)</td><td></td><td></td><td></td><td>Logger Number</td><td></td></th>	<td>Stagnant       Yes       No         Flow Rate       Photos Taken       Yes       No (#)         AMPLING PARAMETER       Photo Location       Photo Location         Time       Dissolved       Conductivity       pH       Redox         mg/L       Odour       pH Units       mV       occ       Turbidity       Colour       Odour         0.59a       105 2       7.38       13.2 C       Clear       No.4       No.4         AMPLING RECORD       Sample Depth:       1.5 ft.       Dup taken? / Dup ID:       Swith 4 Dup         Sample Appearance:       Colour:       Clear       No.4       Turbidity Low Medium / High         Colour:       No.4       No.4       Turbidity Low Medium / High       Turbidity Low       Medium / High</td> <td>Water Depth at Staff Gauge</td> <td>(m)</td> <td></td> <td></td> <td></td> <td>Logger Number</td> <td></td>		Stagnant       Yes       No         Flow Rate       Photos Taken       Yes       No (#)         AMPLING PARAMETER       Photo Location       Photo Location         Time       Dissolved       Conductivity       pH       Redox         mg/L       Odour       pH Units       mV       occ       Turbidity       Colour       Odour         0.59a       105 2       7.38       13.2 C       Clear       No.4       No.4         AMPLING RECORD       Sample Depth:       1.5 ft.       Dup taken? / Dup ID:       Swith 4 Dup         Sample Appearance:       Colour:       Clear       No.4       Turbidity Low Medium / High         Colour:       No.4       No.4       Turbidity Low Medium / High       Turbidity Low       Medium / High	Water Depth at Staff Gauge	(m)				Logger Number	
Flow Rate         Photo Location         AMPLING PARAMETER         Time       Dissolved Oxygen       Conductivity mS o(uS)       pH       Redox Potential mV       Temperature oc       Turbidity       Colour       Odour         59a       1052       7.38       13.2 °C       Clear       Non.         AMPLING RECORD         Sample Depth:       1.5 ff.       Sample ID:       Sub Market         Sample Depth:       1.5 ff.       Dup taken? / Dup ID:       Sub Market         Sample Appearance:       Colour:       Mon.       Turbidity Low Medium / High         Cotour:       Non.       Turbidity Low Medium / High	Flow Rate         Photo Location         AMPLING PARAMETER         Time       Dissolved Oxygen       Conductivity mS o(uS)       pH       Redox Potential mV       Temperature oc       Turbidity       Colour       Odour         59a       1052       7.38       13.2°L       Clear       Non.         AMPLING RECORD         Sample Depth:       1.5 ft.       Dup taken? / Dup ID:       Swift Dup         Time Sampled:       10:59am       Swift Dup       Dup taken? / Dup ID:       Swift Dup         Sample Appearance:       Colour:       Non.       Turbidity Low Medium / High         Cotour:       Non.       Sample Container and Preservation:       Sample Container and Preservation:	Flow Rate         Photo Location         AMPLING PARAMETER         Time       Dissolved       Conductivity       pH       Pedential       Temperature       Turbidity       Colour       Odour         0xygen       ms ours       pH Units       mv       °C       Turbidity       Colour       Odour         059a.n.       105.2       7.38       13.2 °L       Clear       Non.         AMPLING RECORD         Sample Depth:       1.5 ft.       Dup taken? / Dup ID:       Swith Dup         Time Sampled:       10:59am       Swith Dup       Dup         Sample Appearance:       Colour:       Clear       Medium / High         Colour:       Non.       Turbidity Low Medium / High	Stream Width	(m) 2 M	•			Loger Download Time			
Time Dissolved Conductivity pH Redox         Time Dissolved Oxygen ms o(us pH Units mV       Temperature oc       Turbidity       Colour       Odour         0.59a h       105 2       7.38       13.2 C       Clear       Non.         Sample RECORD         Sample Depth:         Time Sampled:         Dissolved Conductivity pH Redox         Sample RECORD         Sample Depth:         Sample Depth:	Time Dissolved Conductivity pH Redox         Time Dissolved Oxygen ms o(us pH Units mV       Temperature oc       Turbidity       Colour       Odour         0.59a h       105 2       7.38       13.2 C       Clear       Non.         Sample RECORD         Sample Depth:         Time Sampled:         Dissolved Conductivity pH Redox         Sample RECORD         Sample Depth:         Sample Depth:	Time Dissolved Conductivity pH Redox Potential or Pot	Stagr	ant Yes	No			Photos Taken	(Yes) No (#)		
Dissolved Oxygen mg/L     Conductivity pH     pH pH Units mV     Hedox Potential mV     Temperature oC     Turbidity     Colour     Odour       0.59a     1052     7.38     13.2°     Clear     Non.       Sampling Method:     Swing pole.     Sample ID:     Swing     Swing       Sample Depth:     1.5 ft.     Dup taken? / Dup ID:     Swing       Time Sampled:     10:59am     Turbidity     Medium / High	Dissolved Oxygen mg/L     Conductivity pH     pH pH Units     Redox Potential mV     Temperature oC     Turbidity     Colour     Odour       0.59a     1052     7.38     13.2°     Clean     Non     .       Sampling Method:     Swing pole       Sample Depth:     1.5 ft     Dup taken? / Dup ID:     Swing Medium / High       Sample Appearance:     Colour:     Clean     Medium / High	Dissolved Oxygen mg/L       Conductivity pH       pH pH Units mV       Fedox Potential mV       Temperature oC       Turbidity       Colour       Odour         0.59a       1052       7.38       13.2°C       Clear       Nonc.         Sampling Method:       Swigp pole.         Sample Depth:       1.55H.       Dup taken? / Dup ID:       Swight Out         Time Sampled:       10:59am       Suppole.       Turbidity       Medium / High         Sample Appearance:       Colour:       Clear       Medium / High         Odour:       None       Sample Container and Preservation:       Sample Container and Preservation:	Flow R	ate				Photo Location			
Dissolved Oxygen mg/L     Conductivity pH     pH pH Units     Redox Potential mV     Temperature oC     Turbidity     Colour     Odour       0.59a     105 A     7.38     13.2°L     Clean     Non     .       Sampling Method:     Swing pole     Sample ID:     Swing     Swing     .       Sample Depth:     1.5 ff.     Dup taken? / Dup ID:     Swing     Swing       Time Sampled:     10:59a     .     Turbidity     Medium / High	Dissolved Oxygen mg/L       Conductivity mS o(µS)       pH pH Units pH Units       Redox Potential mV       Temperature oC       Turbidity       Colour       Odour         0.59a       105 A       7.38       13.2 C       Clean       Non       Non         Sampling Method:       Swing pole       Sample ID:       Swing       Suppole       Dup taken? / Dup ID:       Swing       Swing         Sample Appearance:       Clean       Non       Turbidity       Colour       Medium / High         Sample Container and Preservation:       Non       Sample Container and Preservation:       Sample Container and Preservation:	Dissolved Oxygen mg/L       Conductivity pH       pH pH Units mV       Hedox Potential mV       Temperature oC       Turbidity       Colour       Odour         0.59a       105 A       7.38       13.2°C       Clear       Nonc.         Sampling Method:       Swing pole.         Sample Depth:       1.5 ff.       Dup taken? / Dup ID:       Swing Medium / High         Sample Appearance:       Colour:       Clear       Medium / High         Odour:       None       Sample Container and Preservation:       Sample Container and Preservation:				una cardinativo nas mitros a	990,777,900,5 VS/5 <sup>1,7</sup> 7	NUMBER OF STREET			
Time     Docygen mycl     Conductivity     pH     Potential     Turbidity     Colour     Odour       0.59a h     105 Å     7.38     13.2°     Clear     Non.       SAMPLING RECORD       Sampling Method:     Subject of the second s	Time     Docygen mycl     Conductivity     pH     Potential mV     Turbidity     Colour     Odour       0.59a h     105 Å     7.38     13.2°L     Clear     Non       0.59a h     105 Å     7.38     13.2°L     Clear     Non       Sampling Method:	Time     Docygen mg/L     Conductivity mS o(µS)     pH Units pH Units     Potential mV     Turbidity     Colour     Odour       0.59a h     105 Å     7.38     13.2°L     Clear     Non.       SAMPLING RECORD       Sampling Method:	Constraint of the March of the property of the		Dedau		252.0.				
Sampling Method:       Subjection         Sample Depth:       1.5 ff.         Time Sampled:       10:5 flam         Sample Appearance:       Colour:         Odour:       None	Sampling Method:       Subjection         Sample Depth:       1.5 ff.         Time Sampled:       10:5 flam         Sample Appearance:       Colour:         Odour:       None	Sampling Method:	Time Oxygen	-	Potential		Turbidity	Colour	Odour		
Sampling Method:	Sampling Method:	Sampling Method:	1590 1052	7.38	1	13.2%		Clear	Non		
	Sampled of a carep badies (veg the teg	Sampled is a carp backer (reg the reg									
			Time Sampled: Sample Appearance: Colour: Odour: Sample Container and Preserval	ion:	locatio	- - (ver	y lette -				
OBSERVATIONS	OPSERVATIONS		Time Sampled:O	ion: a deep				to no-flow)			
Weather Conditions:	Weather Conditions:	Weather Conditions:	Time Sampled:O.4 Sample Appearance: Colour:N Odour:N Sample Container and Preservat Sampled is DBSERVATIONS Weather Conditions:	one a deep				to no-flow)			
Weather Conditions: Temperature:	Weather Conditions: Temperature:	Weather Conditions: Temperature:	Time Sampled: Sample Appearance: Colour: Odour: Sample Container and Preservat Sampled is DESERVATIONS Weather Conditions: Tempera	one a deep				to no-flow)			
Weather Conditions:	Weather Conditions: Temperature:	Weather Conditions: Temperature:	Time Sampled: Sample Appearance: Colour: Odour: Sample Container and Preservat Sampled is DESERVATIONS Weather Conditions: Tempera	one a deep				to no-flow)			
Weather Conditions: Temperature:	Weather Conditions: Temperature:	Weather Conditions: Temperature: Current Precipitation:	Time Sampled: Sample Appearance: Colour: Odour: Sample Container and Preservat Sampled in Sampled in OBSERVATIONS Weather Conditions: Tempera Current Precipita	ture:				to no-flow)			
Weather Conditions: Temperature: Current Precipitation:	Weather Conditions: Temperature: Current Precipitation: Precipitation of past 24 / 48 hrs:	Weather Conditions: Temperature: Current Precipitation: Precipitation of past 24 / 48 hrs:	Time Sampled: Sample Appearance: Colour: Odour: Sample Container and Preservat Sampled in Sampled in OBSERVATIONS Weather Conditions: Tempera Current Precipita Precipitation of past 24 / 48	ture:				to no-flow)			
Weather Conditions:	Weather Conditions: Temperature: Current Precipitation: Precipitation of past 24 / 48 hrs:	Weather Conditions: Temperature: Current Precipitation: Precipitation of past 24 / 48 hrs:	Time Sampled: Sample Appearance: Colour: Odour: Sample Container and Preservat Sampled in Sampled in OBSERVATIONS Weather Conditions: Tempera Current Precipita Precipitation of past 24 / 48	ture:				to no-flow)			
Weather Conditions:	Weather Conditions:	Weather Conditions: Temperature: Current Precipitation: Precipitation of past 24 / 48 hrs:	Time Sampled: Sample Appearance: Colour: Odour: Sample Container and Preservat Sampled in Sampled in OBSERVATIONS Weather Conditions: Tempera Current Precipita Precipitation of past 24 / 48	ture:				to no-flow)			

mg/L     ms or (us)     pH Unita     mv     cc       10:02     515     8.16     15.7°C     Stear Brown Tinge       SAMPLING RECORD       Sampling Method:     Sampling Pale       Sample Depth:     0.600       Time Sampled:     (0:02 AM)	Ime       Location ID       E-SWMP-IN         Surveyed reference point         Location ID       F-SWMP-IN         Surveyed reference point         Water Depth at Staff Gauge (m)         Surveyed reference point         Surveyed reference point         Surveyed reference point         Surveyed reference point         Stagnant       Conductivity (Yes / No         Stagnant       Yes / No (# Yes / No (	Pr	CT INFORM oject Number: Client: Site Location:	12-11 Cova	s1-01: nta Ngtor				Date: Sep	28,20 PH/J
Surveyed reference point         Water Depth at Staff Gauge (m)         Stream Width (m)         Stagnant       Yes No         Flow Rate         Photos Taken       Yes / No (#	Surveyed reference point         Weter Depth at Staff Gauge (m)         Steam Width (m)         Stagnant       Yes No         Flow Rate         Photos Taken       Yes / No (#	SITE D	TA		-	1				
Water Depth at Staff Gauge (m)       Logger Number         Stream Width (m)       Loger Download Time         Stagnant       Yes No         Flow Rate       Photos Taken         Yes / No       Yes / No         Sampling Method:       Sample Depth:	Water Depth at Staff Gauge (m)       I.ogger Number         Stream Width (m)       I.ogger Number         Stagnanti       (res_)No         Flow Rate       Photos Taken         Yes / No (# Y         Photos Taken       Yes / No (# Y         Photos Taken       Yes / No (# Y         Photos Taken       Yes / No (# Y         Photo Location       Photo Location         SAMPLING PARAMETER       Temperature       Turbidity         Colour       Colour       Odour         Mg/L       Stags of (3)       pH Units       mV         mg/L       Stags of (3)       pH Units       mV       Colour         Colour       Stags of (3)       Stags of (3)       Stags of (3)       None         Sampling Method:       Sampling Paire       Sample Dig			Time	10:0	2 AM			Location ID F-SI	NMP-IN
Logger Number       Stream Width (m)       Stream Width (m)       Stagnant       Yes No       Photos Taken       Photos Taken       Yes No       Photos Catken       Yes No       Photos Catken       Yes No       Time Sample Depth:       O.600       Sample Depth:       O.600       Sample ID: E - SW/MP - 11       Dup taken? / Dup ID: E - SW/MP - 11       Dup taken? / Dup ID: E - SW/MP - 11	Logger Number         Stream Width (m)         Logger Number         Stagnani         Flow Rate         Photo Location         SAMPLING PARAMETER         Time Dissolved Conductivity pH Potential mV         Turbidity Colour Odour         Odour         Time Sissolved Conductivity pH Units mV         Turbidity Colour Odour         Odour         SAMPLING PARAMETER         Time Dissolved Conductivity pH Units mV         my Colour         Stage Conductivity pH Units mV         my Colour         Sampling Method:         Sampling Method:         Colour: Clear / Brown Troge         Turbidity Colour         Colour: Clear / Brown Troge         Turbidity Low Medium / High         Odour: No Odour         Sample Container and Preservation:		Surveyed	reference point						1,210,01
Loger Download Time       Stagnant       Yes No       Photos Taken       Photos Location       SAMPLING PARAMETER       Time Sampling Method:       Sampling Record       Sampling Method:       Sample Depth:       O.6       Time Sampled:       ID: O a AM	Loger Download Time         Stagnant       Loger Download Time         Photos Taken         Photos Taken         Photos Taken         Time Dissolved Oxygen       Colour       Odour         Odour         Time Dissolved Oxygen       Turbidity       Colour       Odour         Time Sample Depth:       Sample Appearance:       Colour       Colour       Colour       Turbidity       Colour       Odour         Sample Appearance:       Colour       Colour       Turbidity       Colour       Turbidity       Colour       Odour         OBSERVATIONS         Weather Conditions:	Wa	iter Depth at \$	Staff Gauge (m)		_			Logger Number	
Photos Faken Yes / No (#	Procest taken       Time Dissolved Conductivity         Time       Dissolved Conductivity       PH       Petential mv       Temperature       Turbidity       Colour       Odour         10:00       S15       8.16       15.7°C       Stear       None         SAMPLING RECORD         Sampling Method:       Sampling PB/R       Sample Depth:       O.600       Sample Depth:       D.9.0 A AM         Sample Appearance:       Colour       Clear / Brown Tinge       Turbidity Colour       Medium / High         Odour       No.Odour       Sample Container and Preservation:       Sample Conditions:       Medium / High		St	ream Width (m)	-	_			Loger Download Time	
Photo Location         SAMPLING PARAMETER         Time       Dissolved Oxygen mg/L       Conductivity pH Units       pH pH Units       Temperature rc       Turbidity       Colour       Odour         10:00       515       8.16       15.7°C       Clear B (own Tinge       Non         SAMPLING RECORD         Sample Depth:       O.600         Discolved or C       Turbidity       Colour       Odour         Sample ID:       E - SWMP - 11         Dup taken? / Dup ID:       E - SW/MP - 11         Dup taken? / Dup ID:       E - SW/MP - 11	Photo Location         SAMPLING PARAMETER         Time       Dissolved Oxygen       Conductivity       pH       Pedential Potential       Temperature 'C       Turbidity       Colour       Odour         10:00       515       8.16       15.7°C       Clear Brown Trage       None         SAMPLING RECORD       Sample Depth:       O.600       Sample Depth:       None         Time Sampled:       10:02       AM       Sample Appearance:       Clear / Brown Trage       Sample Container and Preservation:         Sample Container and Preservation:       Sample Conditions:       No       Odour       Medium / High			Stagnant	Yes	1)No			Photos Taken	Yes / No (# Y
Time     Dissolved Oxygen mg/L     Conductivity pH Units     pH pH Units     Redox Potential mV     Temperature °C     Turbidity     Colour     Odour       10:00     515     8.16     15.7°C     Clear Brown Tinge     Non:       SAMPLING RECORD       Sample Depth:     0.600       Time Sampled:     10:02 AM	Time     Dissolved Oxygen     Conductivity mS or (13)     pH units pH Units     Temperature mV     Turbidity     Colour     Odour       10:00     515     8.16     15.7°C     Stear Brown Tinge     None       SAMPLING RECORD     Sample Depth:     0.600     Sample Depth:     0.600       Sample Depth:     0.600     Time Sampled:     10:03     AM       Time Sampled:     10:03     AM     Sample Sample Depth:     0.600       Sample Appearance:     Clear / Brown Tinge     Turbidity Low     Medium / High       Odour:     No Odour     Sample Container and Preservation:     Sample Container and Preservation:			Flow Rate	1000	-			Photo Location	
Time     Dissolved Oxygen mg/L     Conductivity pH Units     pH pH Units     Redox Potential mV     Temperature °C     Turbidity     Colour     Odour       10:00     515     8.16     15.7°C     Clear Brown Tinge     Non:       SAMPLING RECORD       Sample Depth:     0.600       Time Sampled:     10:02 AM	Time     Dissolved Oxygen     Conductivity mS or (13)     pH units pH Units     Temperature mV     Turbidity     Colour     Odour       10:00     515     8.16     15.7°C     Stear Brown Tinge     None       SAMPLING RECORD     Sample Depth:     0.600     Sample Depth:     0.600       Sample Depth:     0.600     Time Sampled:     10:03     AM       Time Sampled:     10:03     AM     Sample Sample Depth:     0.600       Sample Appearance:     Clear / Brown Tinge     Turbidity Low     Medium / High       Odour:     No Odour     Sample Container and Preservation:     Sample Container and Preservation:									
Time     Oxygen mg/L     Conductivity     pH     Potential mV     Temperature rc     Turbidity     Colour     Odour       10:00     515     8.16     15.7°C     Clear Brown Tinge     Non       SAMPLING RECORD     Sampling Method:     Sampling Pole     Sample ID:     E-SWMP-11       Dup taken? / Dup ID:     E-SWMP-1.	Time       Oxygen       Conductivity       pH       Potential       Turbidity       Colour       Odour         10:02       515       8.16       15.7°C       C tear       None         SAMPLING RECORD         Sample Depth:       0.600         Sample Depth:       0.600       Turbidity       Colour       Odour         Time Sampled:       10:02       AM       Sample Appearance:       Clear / Brown Tinge       Turbidity Low       Medium / High         Sample Container and Preservation:       Odour:       No Odour       Odour       Odour	SAMPL		ETER		De 1		al al a		
SAMPLING RECORD     IS.7 C     Brown Tinge     NON       Sampling Method:     Sampling Pale     Sample ID:     E-SWMP-1       Sample Depth:     O.6 M     Dup taken? / Dup ID:     E-SWMP-1	SID     Since     IS.7 C     Brown Tinge     None       Sampling Method:     Sampling Pate     Sample ID:     E-SWMP-IN       Sample Depth:     O.6 M     Dup taken? / Dup ID:     E-SWMP-IN       Time Sampled:     IO: O A AM     Sample Appearance:     Colour:     Clear / Brown Tinge       Odour:     No     Odour     Turbidity Low     Medium / High	-								
SAMPLING RECORD Sampling Method: <u>Sampling Pate</u> Sample Depth: <u>O.600</u> Time Sampled: <u>10:03 AM</u>	SAMPLING RECORD Sampling Method: Sampling Pate Sample Depth: O.6M Time Sampled: 10:02 AM Sample Appearance: Colour: No Odour: No Odour Sample Container and Preservation: OBSERVATIONS Weather Conditions:	Time	Oxygen	~		Potential		Turbidity	1.1.2	Odour
Odour: No Odour Medium / High	Weather Conditions:	IO:00 SAMPL Sam	Oxygen mg/L NG RECOR	515 Samp	pH Units 8.16	Potential	.₀ 15.7°C		Sample ID: E-SU	None

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SURFACE WATER SAMPLING RECORD FORM
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	TINFORM	ATION	51-015	5			500	-28, 2012
Proj	ject Number: Client		ta	55			Date: See	PHITIA
S	ite Location:	Clari	naton					0.7
-			0					
SITE DAT	TA		1.1		1			
		Time	1.	SAM			Location ID E-SW	MY-OUT
-		reference point	-				( ]	
Wat	ter Depth at \$	Staff Gauge (m)					Logger Number	
	St	ream Width (m)		~			Loger Download Time	
-		Stegnant	Yes	No		I,	Photos Taken	Yes / No (#)
		Flow Rate					Photo Location	· · · · · · · · · · · · · · · · · · ·
				_	_			
SAMPLIN	Dissolved			Redox	[]			
Time	Oxygen mg/L	mS or uS	pH pH Units	Potential	Temperature °C	Turbidity	Colour	Odour
11:45		500	8.86		15.8		None	None
-1		200	0.00		12.0		None	NOTIC
Sampl Sa Tin	IG RECOR ling Method: imple Depth: ne Sampled: opearance:	Han 15 11:	45 A1	٩	-	Dup tak	~	SWMP-OUT I WMP-OUT I
Sampl Sa Tin	ling Method: Imple Depth:	Hand 15 11: No	in	٩	-	Dup tak	Sample ID: ES	
Sampl Sa Tin Sample Ap	ling Method: mple Depth: ne Sampled: opearance: Colour. Odour:	Hand 15 11: No	45 Al	٩	-	Dup tak	~	
Sampl Sa Tin Sample Ap	ling Method: mple Depth: ne Sampled: opearance: Colour. Odour:	Hand 15 11: No No	45 Al	٩		Dup tak	~	
Sampl Sa Tin Sample Ap	ling Method: mple Depth: ne Sampled: opearance: Colour. Odour:	Hand 15 11: No No	45 Al	Μ		Dup tak	~	
Sampl Sa Tin Sample Ap	ling Method: mple Depth: ne Sampled: opearance: Colour. Odour:	Hand 15 11: No No	45 Al	٩		Dup tak	~	
Sampl Sa Tin Sample Ap	ling Method: imple Depth: ne Sampled: opearance: Colour. Odour: ontainer and	Hand 15 11: No No	45 Al	Λ		Dup tak	~	
Sampl Sa Tin Sample Ap Sample Co	ling Method: imple Depth: ne Sampled: opearance: Colour. Odour: ontainer and	Hang 15 [13 No No Preservation:	(1) 45 Al 000 000	Μ		Dup tak	~	
Sampl Sa Tin Sample Ap Sample Co	ling Method: imple Depth: ne Sampled: opearance: Colour. Odour: ontainer and varians: Conditions:	Hang 15 11: Na Na Preservation:	45 Al			Dup tak	~	
Sample Sa Sample Ap Sample Co OBSERV Weather	Ing Method: Imple Depth: ne Sampled: Opearance: Colour: Odour: ontainer and Mattions Conditions:	Hang 15 [13 No Deservation:	45 Al	None		Dup tak	~	
Sample Ap Sample Ap Sample Co OBSERV Weather Prec	ling Method: imple Depth: ne Sampled: opearance: Colour. Odour: ontainer and wattions Conditions: Currer	Hang 15 11: Na Na Preservation:	45 Al			Dup tak	~	
Sample Sa Sample Ap Sample Co OBSERV Weather	ling Method: imple Depth: ne Sampled: opearance: Colour. Odour: ontainer and wattions Conditions: Currer	Hang 15 [13 No Deservation:	45 Al	None		Dup tak	~	
Sample Sa Tin Sample Ap Sample Co DBSERV Weather Prec	ling Method: imple Depth: ne Sampled: opearance: Colour. Odour: ontainer and wattions Conditions: Currer	Hang 15 [13 No Deservation:	45 Al	None		Dup tak	~	
Sample Sa Tin Sample Ap Sample Co DBSERV Weather Prec	ling Method: imple Depth: ne Sampled: opearance: Colour. Odour: ontainer and wattions Conditions: Currer	Hang 15 [13 No Deservation:	45 Al	None		Dup tak	~	
Sample Sa Tin Sample Ap Sample Co DBSERV Weather Prec	ling Method: imple Depth: ne Sampled: opearance: Colour. Odour: ontainer and ATIONS Conditions: Currer cipitation of p	Hang 15 [13 No Deservation:	45 Al	None		Dup tak	~	

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a set a support of the	a beauties the real base	MATION	a summer the "Associate they are the	Street and second and the				
Pro		: 12-115 : Covan		2			Date: NO	. 2
				-			Sampled By:	
	Site Location	<u>Clarin</u>	gron_	-				
SITE D	MA:							
		Time			_		Location ID	SWI
		reference point			-			
Wa		Staff Gauge (m)			-	(ê)	Logger Numb	
		Stagnant		No	1		Loger Download Tin	
	<u>.</u>	Flow Rate			-		Photos Take Photo Locati	
	<u>,</u>							
Sampl	Dissolved			Redox				
Time	Oxygen mg/L	Conductivity mS o us	pH pH Units	Potential mV	Temperature °C	Turbidity	Colour	Odour
1:0		408	825		7.9		Clear	Non
Samp	NG RECOR	Ha	~) 5/) m/		-	Dura tal	sample ID: 50	31
Samp Sa Tin	ling Method: mple Depth: ne Sampled:	A Ha	son Son	•	-	Dup tak		31
Samp Sa Tin	ling Method: mple Depth: ne Sampled: ppearance: Colour:	A Ha	50m 50m 		-	Dup tak	sample ID: 50	01-Dup
Samp Sa Tin ample A	ling Method: mple Depth: ne Sampled: ppearance: Colour: Odour:	A Ha	50m 50m 		-	Dup tak	sample ID: Su	01-Dup
Samp Sa Tin ample A	ling Method: mple Depth: ne Sampled: ppearance: Colour: Odour:	Ha g (lear	20 20 20 20 20			Dup tak	sample ID: Su	01-Dup
Samp Sa Tin ample A	ling Method: mple Depth: ne Sampled: ppearance: Colour: Odour:	Ha g (lear	Som Som Jo		-	Dup tak	sample ID: Su	01-Dup
Samp Sa Tin ample A	ling Method: mple Depth: ne Sampled: ppearance: Colour: Odour:	Ha g (lear				Dup tak	sample ID: Su	01-Dup
Samp Sa Tin Sample A ample C	ling Method: mple Depth: ne Sampled: ppearance: Colour: Odour: ontainer and	Ha g (lear	.03 			Dup tak	Sample ID: SU	01-Dup
Samp Sa Tin Sample A ample C	ling Method: mple Depth: ne Sampled: Odour: Odour: ontainer and ATIONS Conditions:	Preservation:	.03 				Sample ID: Su	01-Dup
Samp Sa Tin Sample A ample C	ling Method: mple Depth: ne Sampled: ppearance: Colour: Odour: Odour: Container and ATIONS Conditions:	Preservation: Temperature: Precipitation:	.D3 				Sample ID: Su	01-Dup
Samp Sa Tin ample A ample C <b>BSERV</b> Weather Precip	ling Method: mple Depth: ne Sampled: ppearance: Colour: Odour: ontainer and ATIONS Conditions: Current pitation of page	Preservation: Temperature: Precipitation: st 24 / 48 hrs:	.D 3 	P 2 2 5 - 5			Sample ID: Su	01-Dup
Samp Sa Tin ample A ample C <b>BSERV</b> Weather Precip	ling Method: mple Depth: ne Sampled: ppearance: Colour: Odour: ontainer and ATIONS Conditions: Current pitation of page	Preservation: Temperature: Precipitation:	.D 3 	P P P C S = S			Sample ID: Su	01-Dup
Samp Sa Tin ample A ample C <b>BSERV</b> Weather Precip	ling Method: mple Depth: ne Sampled: ppearance: Colour: Odour: ontainer and ATIONS Conditions: Current pitation of page	Preservation: Temperature: Precipitation: st 24 / 48 hrs:	.D 3 				Sample ID: Su	01-Dup



2012

PROJECT INFORMATION
Project Number: 12-1151-0155
Client: Covanta Sampled By: PH/N6
Site Location: Claring ton

Time	9:26	Locatio	n ID S	wa
Surveyed reference point				
Water Depth at Staff Gauge (m)		ē	Logger Number	
Stream Width (m)	I.SM	Loger	Download Time	
Stagnant	Yes / Nr		Photos Taken	
Flow Rate			Photo Location	

Time	Dissolved Oxygen mg/L	Conductivity mS or uS	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour
9:26		440	₹.06		8.3		Greyish	None

			PUNCIFIE COHD AND THE STORE	SAMPLINGE
SWI	Sample ID:		ampling Method: Nan	Sampling Me
SWI-DUP	Dup taken? / Dup ID:_	c M	Sample Depth:	Sample D
		6	Time Sampled:	Time Sam
.ow / Redium / High	Turbidity: L	n/ slight grow	le Appearance: Colour: No SNCC Odour: NO	
12			e Container and Preservation:	Sample Containe
		<b>1°</b> C	the star of a second set in the second	OBSERVATION Weather Conditi
		Nes	Current Precipitation:	Cu
	Tala		ecipitation of past 24 / 48 hrs:	Precipitation
	t d/s	observed ju	s: toam	Notes:
	<u> </u>	<u></u>		
				······

SURF	ACE WA	TER SAMPI	LING REC	ord for	t <b>M</b>			Golde	r Afes
Pn	Clien	MATION (:) 2 - 115 (:) Covas (:) Classic	ita	and " " high strandstall, "maging age			Date:	ING <sup>20</sup>	
SITE D	MA SO	Tim			<u></u>		Location ID	รแก้	
	Surveyed	t reference poin	t		-			3000	
Wa		Staff Gauge (m		2	1				
	St	tream Width (m	0350	Lons	r.c. 34		Logger Num		
	· · · · · · · · · · · · · · · · · · ·	Stagnan	t Yes	NO	6r	:se	Loger Download Tin Photos Take		
		Flow Rate	•		1		Photo Locati		
SAMPL		1913: <b>M.M</b>							
Time	Dissolved Oxygen mg/L	Conductivity mS or µS	pH pH Units	Redox Potentiał mV	Temperature °C	Turbidity	Colour	Odour	
		771	8.35		8.6		Cear	None	
Samp Sa Tirr	NG RECON ting Method: mple Depth: ne Sampled: ppearance:	Po	e			Dup take	Sample ID: Su		=Duf
·	Colour: Odour:		20(	No <sup>4</sup>	her		Turbidity: Lwv / Ja	adium / High	
	2		· · · ·				· · · · · · · · · · · · · · · · · · ·		
OBSERV Weather	ATIONS Conditions:	Temperature:		10°C					7783 - 1 19 - 1942
	Current	Precipitation:	Ve	5-4	IC.CKIE				
Precip Notes:	pitation of pa	ust 24 / 48 hrs:	at 1	len :	tatio		n cham		
				4	2				
						<u>    .                                </u>	······		

Surveyed reference point Water Depth at Staff Gauge (m)

Stream Width (m)

Stagnant Flow Rate



PROJECT INFORMATION	
Project Number: 12-1151-0155	Date: NOV. 2012
client: Covanta	Sampled By:
Site Location: <u>Clarington</u>	
SITE DATA	
Time <b>GLUS</b>	Location ID Sw

Z Yes / No

Logger Number		
Loger Download Time		
Photos Taken	Yes / No (#	)
Photo Location		

SWY

Time	Dissolved Oxygen mg/L,	Conductivity mS o (US	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour
		747	351		65		clear	None

SAMPLING RECORD	and the second state of th	
Sampling Method: Pole	Sample ID:	
Sample Depth:	Dup taken? / Dup ID:	SW Dup
Time Sampled:		
Sample Appearance: Colour: Odour: None	Turbidity: Lo	Maium / High
Sample Container and Preservation:		ą.
Weather Conditions:		

	LING RECOR					Golder	
OJECT INFORMATION					Date:	2012	
	151-0155		8	Sa	ampled By:	<u>N</u> 6	
Client: <u>COV</u>	inaton	e.					
She Location	5			1			
TE DATA			والمشاولة الموالية المحالية ا		ocation ID SU	111-90	]
······································	Time			Ľ			
Surveyed reference	point			Г			
Water Depth at Staff Gaug	e (in)			-	Logger Number		]
Stream Wide				ŀ	Loger Download Time	Yes / No (#	
Sta	gnant Yús	/ No		ł	Photos Taken		
Flow	Rate			l	Photo Location		_
			-				
SAMPLING PARAMETER		Redox	Temperature		Colour	Odour	
Time Dissolved Condu		Potential mV	°C	Turbidity	Colour		-
mg/L mSo	pH Units		8.0		Biswa	None	
1.10 4	5 6,00		0.0				
							1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
SAMPLING RECORD			Anna and a	The state of the state of the state		JP-IN	
Sampling Method:	New Q		-	Due to			DUP
	No C	-	-	Dup ta			Put
Sampling Method:	VSC	1	-	Dup ta	ken? / Dup ID:	- Dep	DUT
Sampling Method: Sample Depth: Time Sampled:	VSCA	<u>i</u>	-	Dup ta		- Dep	PUT
Sampling Method: Sample Depth: Time Sampled: Sample Appearance: Colour:	VSC.		-	Dup ta	ken? / Dup ID:	- Dep	PV
Sampling Method: Sample Depth: Time Sampled: Sample Appearance: Colour: Odour:	VSC. No	9	-	Dup ta	ken? / Dup ID:	- Dep	PV
Sampling Method: Sample Depth: Time Sampled: Sample Appearance: Colour:	NSC. No No	•	-	Dup ta	ken? / Dup ID:	- Dep	PV
Sampling Method: Sample Depth: Time Sampled: Sample Appearance: Colour: Odour:	NSC. No No		-	Dup ta	ken? / Dup ID:	- Dep	
Sampling Method: Sample Depth: Time Sampled: Sample Appearance: Colour: Odour:	VS Com No Envation:		-	Dup ta	ken? / Dup ID:	- Dep	
Sampling Method: Sample Depth: Time Sampled: Sample Appearance: Colour: Odour:	NSC.		-	Dup ta	ken? / Dup ID:	- Dep	
Sampling Method: Sample Depth: Time Sampled: Sample Appearance: Colour: Odour: Sample Container and Press	VSC.			Dup ta	ken? / Dup ID:	- Dep	
Sampling Method: Sample Depth: Time Sampled: Sample Appearance: Colour: Odour: Sample Container and Press	KSC.			Dup ta	ken? / Dup ID:	- Dep	
Sampling Method: Sample Depth: Time Sampled: Sample Appearance: Colour: Odour: Sample Container and Press Sample Container and Press OBSERVATIONS Weather Conditions:	nperature:			Dup ta	ken? / Dup ID:	- Dep	
Sampling Method: Sample Depth: Time Sampled: Sample Appearance: Odour: Sample Container and Press Sample Container and Press Weather Conditions: Ten Current Pres	nperature:			Dup ta	ken? / Dup ID:	- Dep	
Sampling Method: Sample Depth: Time Sampled: Sample Appearance: Odour: Sample Container and Press Sample Container and Press Weather Conditions: Ten Current Pres	nperature:			Dup ta	ken? / Dup ID:	- Dep	
Sampling Method: Sample Depth: Time Sampled: Sample Appearance: Colour: Odour: Sample Container and Press Sample Container and Press OBSERVATIONS Weather Conditions: Tem	nperature:			Dup ta	ken? / Dup ID:	- Dep	
Sampling Method: Sample Depth: Time Sampled: Sample Appearance: Colour: Odour: Sample Container and Press Sample Container and Press Weather Conditions: Ten Current Pre Precipitation of past 2	nperature:			Dup ta	ken? / Dup ID:	- Dep	
Sampling Method: Sample Depth: Time Sampled: Sample Appearance: Colour: Odour: Sample Container and Press Sample Container and Press Weather Conditions: Ten Current Pre Precipitation of past 2	nperature:			Dup ta	ken? / Dup ID:	- Dep	
Sampling Method: Sample Depth: Time Sampled: Sample Appearance: Colour: Odour: Sample Container and Press Sample Container and Press Weather Conditions: Ten Current Pre Precipitation of past 2	nperature:			Dup ta	ken? / Dup ID:	- Dep	
Sampling Method: Sample Depth: Time Sampled: Sample Appearance: Colour: Odour: Sample Container and Press Sample Container and Press Weather Conditions: Ten Current Pre Precipitation of past 2	nperature:			Dup ta	ken? / Dup ID:	- Dep	
Sampling Method: Sample Depth: Time Sampled: Sample Appearance: Colour: Odour: Sample Container and Press Sample Container and Press Weather Conditions: Ten Current Pre Precipitation of past 2	nperature:			Dup ta	ken? / Dup ID:	- Dep	

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SURF/	ACE WATE	E <b>r sampl</b> i	ING REC	ord for	IM			Golder	5
A -in all the second	CT INFORM	Colores and a second second		C. H. S. S. S.					
Pro		12-115		5			Date:	2013	<u> </u>
6		Covan		20			Sampled By:	I/NG	
2	the cochaon.		<u>J 1011</u>	-					
SITE DA	TA			1000					
		Time	11:4	S			Location ID W-S	WMP-OU	7
	Surveyed n	eference point			]				
Wate	er Depth at St	taff Gauge (m)	1	10m		8	Logger Number		7
	Stre	am Width (m)	NI		]		Loger Download Time		-
		Stagnant	Yes	/ No -	Sin one	•	Photos Taken	Yes / No (#	,
		Flow Rate			4.00		Photo Location		
					-				_
SAMPLI	NG PARAM	ETER							66
Time	Dissolved Oxygen mg/L	Conductivity mS or μS	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour	7
11:49		457	8.62		4.8		light	No	
									-
a an	ING RECORD		- 00	d	1 1		Sample ID	NO-01	14
Sar	mple Depth:	N)	can.			Dup tak	en? / Dup ID:		DUF
Tim	e Sampled: _								
Sample Ap	ppearance: Colour:_	1:0	12)	65 0	A		Turbidity: Low Medi	High	
	Odour:				-				
Sample Co	ontainer and f	Preservation:						20	
									-
							· · · · · · · · · · · · · · · · · · ·	<u> </u>	-
									-
25 15.12.57	11 - 11 - 14 - 15 - 15 - 15 - 15 - 15 -	and the second second			an agricer a sector.		الافراق المارية المحكمة والمستخدمات المارية المارية ( الم		-
OBSERV	a range and delighted in province	a a se de cardo a se de ca	al marking			e en parte			1
weather	Conditions: T	Cemperature:							
	Current I	Precipitation:							
Precip	pitation of pas	t 24 / 48 hrs:_	_					# <b>(</b> ]	
Notes:		We	140	and	disa	0	ny Via	Aradola	160
-	Det	3	nd A	Jall	- 1/4	ter -	torturos	10	
ć	1:42	hdra#	Via	6.00	- 0	1. C	Vet cer	Me	1

Project Number:       12-1151-D155         Citers:       COVCATA         Site Location:       CLARING PDD         SITE DATA       Imme         Imme       10:50         Surveyed reference point       Logger Number         Water Depth at Staff Gauge (m)       10 Len         Stream Width (m)       Stagnern         Yes / Water       Photos Taten         Flow Rate       Photos Taten         Yes / Water       Photos Taten         Yes / Water       Photos Taten         Stagnern       Yes / Water         Photos Taten       Yes / No (#         Sample Appearance:       Photos Taten         Sample Appearance:       Colour       Odour:         Odour:       Yes / Yes / No (#         Sample Appearance:       Colour       Colour         Odour:       Yes / Yes / No (#       Colour         Sample Appearance:       Colour       Colour         Odour:       Mone       Yes / Yes / Yes / Yes / Yes /	PROJE	CTINFORM	ATION	و میں آئی ہے۔ بندی بندہ دیکھی					
Site Location: Claring ton	We have a support of the	ject Number:	12-115		5				20
SITE DATA         Image: Surveyed reference point         Surveyed reference point         Water Dopth at Staff Gauge (m)         Stream Width (m)         Stream Width (m)         Stagmant         Yes / Image: Stagmant         Photo Staten         Photo Staten         Yes / Image: Stagmant					-			Sampled By:	NG_
SITE DATA         Imme       Imme         Surveyed reference point         Water Depth at Staff Gauge (m)       IOLA         Stream Width (m)       ILoger Number         Stagnant       Yes / Imme         Flow Rate       Photos Taken         Yes / No (#       Photos Taken         Yes / No (#       Photos Taken         Yes / No (#       Photos Castion         Stagnant       Yes / Imme         Dissolved       Conductivity         Time       Dissolved         Conductivity       PH         Predox       Potential         mgd.       PS of the Units         mV       °C       Turbidity         Colour       Odour         Sampling Method:       Sample Depth:         Time Sampled:       Tor Solved         Colour:       Sample Appearance:         Colour:       None         Sample Appearance:       None         Colour:       None	2	Site Location:	Clarve	<u>gron</u>					
Surveyed reference point         Water Depth at Staff Gauge (m)         Stream Width (m)         Stream Width (m)         Stream Width (m)         Stream Width (m)         Bagnant         Yes / wo         Flow Rate         Photos Taken         Yes / wo         Flow Rate         SAMPLING PARAMETER         Time       Dissolved Oxygen mg/L         May PH mg/L       PH PH Units PH Pt Units mV       Temperature roc       Turbidity         Colour       Odour         Sample Depth:       Sample depth         Time Sampled:       Sample Appearance: Colour       Sample Appearance: Colour         Odour       Sample Appearance: Colour       Sample Appearance: Colour       Sample Appearance: Colour	SITE D	VA SE							
Water Depth at Staff Gauge (m)       I       <			Time	10	:50			Location ID E - S	WP-1N
Loger Download Time         Stagnant       Yes / 100         Flow Rate       Photos Taken       Yes / No (#		Surveyed	reference point			]			
Loger Download Time         Stagnant       Yes / 100         Flow Rate       Photos Taken       Yes / No (#	Wal	er Depth at S	itaff Gauge (m)	51	LA		8	Logger Number	
Flow Rate       Photo Location         Flow Rate       Photo Location         StampLing PARAMETER       Dissolved Oxygen mg/L       Conductivity mS of B       pH pH Units mV       Redox Potential mV       Temperature oc       Turbidity       Colour       Odour         Ugg Q       9.8       6.44       Bcolum       Non 2         Sampling Method:       Sample Depth:       Dup taken? / Dup ID:       Sector Open         Sample Appearance:       0.000r:       0.000r       Turbidity: Low / Mediu (Ho)		Str	eam Width (m)			_		Loger Download Time	
SAMPLING PARAMETER         Time       Dissolved Oxygen mg/L       Conductivity pH       pH       Pedox Potential mV       Temperature oC       Turbidity       Colour       Odour         UQQU       9.8       0.00       0.00       0.00       0.00       0.00         Sampling Method:			Stagnant	Yes				Photos Taken	Yes / No (#
Dissolved Oxygen mg/L       Conductivity pH       pH Potential mV       Temperature oc       Turbidity       Colour       Odour         Way       9.000			Flow Rate					Photo Location	
Dissolved Oxygen mg/L       Conductivity pH       pH Potential mV       Temperature oc       Turbidity       Colour       Odour         Way       9.000						÷			and a state of the state of the
Time     Oxygen mg/L     Conductivity pH     pH pH Units     Potential mV     Turbidity     Colour     Odour       Sampling Method:	SML	A AND ADDRESS BANDING	<b>EJER</b>		war and the second second				
Yqy     q.g.     6.4     Breach     None       Sampling Method:	Time	Oxygen			Potential		Turbidity	Colour	Odour
Sampling Method:		mg/L	ms or us	pH Units	mV			Theater	Inn 0
Sampling Method:			494	4.50		01		for the second second	
Colour: Turbidity: Low / Mediur / High	Samp	ling Method:	R	06		•	and a straightformer		<u>mp-11</u>
Odour:	Samp Sa	ling Method: mple Depth:	2	ole 7.5	5 5	-	and a straightformer		mp-14
	Samp Sa Tin	ning Method: Imple Depth: Ne Sampled: Nepearance:		01e	<u>}</u>	-	and a straightformer	xen? / Dup ID:	mP-14
	Samp Sa Tin	ne Sampled: Appearance: Colour:	2  )  )	012 7.5	<u>}</u>	-	and a straightformer	xen? / Dup ID:	mp-14
	Samp Sa Tin Sample A	ne Sampled: perance: Colour: Odour:	- 10 - 1	014 7.57 5.67 No	3	-	and a straightformer	xen? / Dup ID:	mp-14
	Samp Sa Tin Sample A	ne Sampled: perance: Colour: Odour:	- 10 - 1	012 7.5 510 No	5	-	and a straightformer	xen? / Dup ID:	mp-14
	Samp Sa Tin Sample A	ne Sampled: perance: Colour: Odour:	- 10 - 1	012 0.5'	<u>}</u>		and a straightformer	xen? / Dup ID:	mp-14
	Samp Sa Tin Sample A	ne Sampled: perance: Colour: Odour:	- 10 - 1	01- 5 No	3 		and a straightformer	xen? / Dup ID:	
	Samp Sa Tin Sample A Sample C	ne Sampled: perance: Colour: Odour:	- 10 - 1	01- 5.5 No	<b>5</b>		and a straightformer	xen? / Dup ID:	
Weather Conditions:	Samp Sa Tin Sample A Sample C	Ing Method: Imple Depth: Ine Sampled: Colour: Odour: Container and	Preservation:	012 0.5'	<b>5</b>		and a straightformer	xen? / Dup ID:	<b>np-14</b>
Temperature:	Samp Sa Tin Sample A Sample C	Aling Method: ample Depth: ne Sampled: Colour: Odour: Container and Antions: Conditions:	Preservation:				and a straightformer	xen? / Dup ID:	
Current Precipitation:	Samp Sa Tin Sample A Sample C	Anno and a second secon	Preservation:				and a straighter as	xen? / Dup ID:	<b>np-14</b>
Current Precipitation:	Samp Sa Tin Sample A Sample C	Anno and a second secon	Preservation:				and a straighter as	xen? / Dup ID:	
Current Precipitation:	Samp Sa Tin Sample A Sample C OBSER Weather Weather	Angle Depth: ample Depth: ane Sampled: Colour:	Preservation: Temperature: Precipitation: st 24 / 48 hrs:				and a straighter as	xen? / Dup ID:	<u>mp-14</u>
Temperature:	Samp Sa Tin Sample A Sample C OBSER Weather Weather	Angle Depth: ample Depth: ane Sampled: Colour:	Preservation: Temperature: Precipitation: st 24 / 48 hrs:				and a straighter as	xen? / Dup ID:	
Temperature:	Samp Sa Tin Sample A Sample C OBSER Weather Weather	Angle Depth: ample Depth: ane Sampled: Colour:	Preservation: Temperature: Precipitation: st 24 / 48 hrs:				and a straighter as	xen? / Dup ID:	<b>np-14</b>



PROJECT INFORMATION	
Project Number: 12-1151-0155	Date: 12th March, 2013
Client: Covanta	Sampled By: Jessica Hanschell+ Devon Withebridge.
Site Location: Claring ton	

SITE DATA -----9:20 Time Location ID E-SWMP-IN Surveyed reference point 5m Water Depth at Staff Gauge (m) a Logger Number Pond Stream Width (m) 14 Loger Download Time Yes / No Stagnant Photos Taken Yes No (# Flow Rate . -Photo Location

Time	Dissolved Oxygen mg/L	Conductivity mS or $\mu$ S	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour
<sup>6</sup> 1:20	M	1. 28m3	5.83		2.4°C.	0-66 fr	_ Slightgrey-	Non.

Sampling Method: Study Poly	Semple ID: E-SW MMP-IN
Sample Depth: 0-5 M	Dup taken? / Dup ID: ESWMP.1000
Time Sampled: 9,20 cm	
Sample Appearance: Siglify goes Colour: Non goes Odour: Non	Turbidity: Low Medium High
Sample Container and Preservation:	lee covered most
BŞERVATIONS	
DBSERVATIONS Weather Conditions: Temperature:	
Weather Conditions:	
Weather Conditions: Temperature:	
Weather Conditions: Temperature: Current Precipitation: Precipitation of past 24 / 48 hrs:	
Weather Conditions: Temperature: Current Precipitation:	
Weather Conditions: Temperature: Current Precipitation: Precipitation of past 24 / 48 hrs:	

Stream Width (m)

Stagnant

Flow Rate

Yes / No



PROJECT INFORMATION	and an	
Project Number: 12-1151-0155	Date:	March 12, 2013
Client: Covanta	Sampled By:	Jessica + Devon
Site Location: <u>Clarington</u>		
Site Location: <u>Clacing ton</u>		

 SITE DATA

 Location ID E - SWMP-OUT

 Surveyed reference point

 Water Depth at Staff Gauge (m)

 Under Depth at Staff Gauge (m)

Logger Number	
Loger Download Time	
Photos Taken	Yes/ No (#)
Photo Location	

	Oxygen mg/L	Conductivity mS or μS	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour	
0:34		1-27ms	8.04		2.2°(.	068117	slightly grey -	NON.	
AMPLI	IG RECOR	D	4 chil	not sta	bilize-ce	rastlady ge	vis r - 7 work	nh 9-075411	going
Sampli	ing Method:	Bern	Byh	and.			Sample ID: E-SW	MP-OUT	
San	nple Depth:	Ø - 4	"deep.			Dup tak	an? / Dup ID:ビーらい		
Tim	a Sampled:	10:30	1.						
Sample Ap	pearance: Colour: Odour:	s Wg	ht gay				Turbidity: Low / Medi	um / High	
ample Co	G	Preservation:							
•									
						· · · · · · · · · · · · · · · · · · ·			
								·	
				· · · · · · · · · · · · · · · · · · ·	4		, a		
	Conditions:	Temperature:					• • • • • • • • • • • • • • • • • • •		
	Conditions:	Temperature:							
	Current	Temperature:							
Weather (	Current	Temperature:							
Weather ( Precipi	Current	Temperature: Precipitation: st 24 / 48 hrs:							
Weather ( Precipi	Current	Temperature: Precipitation: st 24 / 48 hrs:							
Weather ( Precipi	Current	Temperature: Precipitation: st 24 / 48 hrs:							

Flow Rate

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1 . . . . .



Photos Taken Yes No (#

Photo Location

. . -

PROJECT INFORMATION	na na manganan na mangana Mananganan na manganan na mangana na ma		
Project Number: 12-115		Date: 12 N	1arch, 2013
Client: Covan		Sampled By: Jess	ica+ Devon
Site Location:	jton		
SITE DATA			n ja men sa se
Time	9.40.	Location ID W - S	WMP-IN
Surveyed reference point			
Water Depth at Staff Gauge (m)	0.75m	Logger Number	
Stream Width (m)		Loger Download Time	
Stagnant	Yes / No		(

SAMPLING PARAMETER 

Time	Dissolved Oxygen mg/L	Conductivity mS or $\mu$ S	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour
9.		0.37ms.	5.94		1.6°C		Slight Greg	No

SAMPLING RECORD the state of the PS

	sompung log.	Sample ID: W- SWMP - IN
Sample Depth:		Dup taken? / Dup ID: SW Dup
Time Sampled:		
Sample Appearance: Colour:	Shiqlit Gruy No.	Turbidity Low / Medium High
Odour:	NG.	
Sample Container and Pr	reservation:	Ice covered mostly
Weather Conditions: Te	mpérature:	
	ecipitation:	
Precipitation of past 2	24 / 48 hrs:	
	24 / 48 hrs:	
	24 / 48 hrs:	



)

PROJECT INFORMATION	
Project Number: 12-1151-0155	Date: March 12, 2013
client: <u>Covanta</u>	Sampled By: Jessica + Devon
Site Location: <u>Clarington</u>	
SITE DATA	
Time 10:35	Location ID W- SWIMP-OUT

		1		
Surveyed reference point				
Water Depth at Staff Gauge (m)	~ 5" dey	±	Logger Number	
Stream Width (m)			Loger Download Time	
Stagnant	Yes / No		Photos Taken	
Flow Rate			Photo Location	V

Time	Dissolved Oxygen mg/L	Conductivity mS or $\mu$ S	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour
10:35							Slightlygny	Navi

A 4 1	
Sampling Method: By hence	Sample ID: W-SWMP-OUT
Sample Depth:5*	Dup taken? / Dup ID: W-SWHP-Dup
Time Sampled: 10:35	
Sample Appearance: Slighty gry	Turbidity: Low / Medium High
Odour:NCM	
Sample Container and Preservation:	
OBSERVATIONS	
Weather Conditions:	
Temperature:	
Current Precipitation:	
Precipitation of past 24 / 48 hrs:	

Yes /No

flowing medium.

Stream Width (m)

Stagnant

Flow Rate



PROJECT INFORMATION				· ••••
Project Number: ) 2 - 115	1-0155	Date:	12 March , 20	13
Client: Covan		Sampled By:	12 March, 20 Jessica+Devor	
Site Location: <u>Claring</u>	<u>ton</u>			
SITE DATA	10:24	Location ID	SWI	- <b>y</b> - 1 - 1
Surveyed reference point	12:24			
Water Depth at Staff Gauge (m)	6-7"			

Logger Number	
Loger Download Time	
Photos Taken	Yes/ No (#)
Photo Location	

a in a cavera. Abas SAMPLING PARAMETER ten r 16.7 

Time	Dissolved Oxygen mg/L	Conductivity	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour	]
10:24		$0.98_{m}$ 5	6-28		2.8°C	. 0. 53 mt	Clear.	No.	1

Sampling Method: Pole Semple	Sample ID: SWI
Sample Depth:	Dup taken? / Dup ID: Swi Dup
Time Sampled: 10: 21	
Sample Appearance: Colour:	Turbidity: Low / Medium / High
Odour: NO 2	
ample Container and Preservation:	
	Per per
BSERVATIONS	
Weather Conditions:	
Temperature:	
Current Precipitation:	
Precipitation of past 24 / 48 hrs:	
Notes:	
······································	

	PLING REC	Golder				
ROJECT INFORMATION				1.000773		
Project Number: ] 2 - \ \	51-015	5			Date: 12 N	1arch, 2013
Client: COVA		-			Sampled By: J. Har	schell, D.Wi
Site Location:	ng ton	-				
TE DATA				·•••••••••••••••••••••••••••••••••••••		an a
Tir		5.	4		Location ID 5	w2
Surveyed reference po	-		4			
Water Depth at Staff Gauge (	200	81	4	2	Logger Number	
Stream Width (			4		Loger Download Time	
Stagna Flow Ra		No	-		Photos Taken	Yes / No (#
	" fla	m	ſ		Photo Location	
AMPLING PARAMETER						
Time Dissolved Conductivity Oxygen mS or µS	y pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour
1.05 1.0ms	8.00		2.7° C.	0.64ppt	Non	N0 -
AMPLING RECORD				7		
	5 Por		-		Sample ID: 5W,	
Sampling Method: Swin						
Sampling Method: <u>Swin</u>			-	Dup take	an? / Dup ID: <u></u> 2	- Dup
				Dup take	an? / Dup ID: <u>\$</u> 22	- Dup
Sample Depth:				Dup take		
Sample Depth: Time Sampled: ample Appearance:			- - -	Dup take	an?/Dup ID: <u>S</u> 2 Turbidity: Low / Mediu Med-b	m / High

.

Current Precipitation:

Precipitation of past 24 / 48 hrs:

Notes:



PROJECT INFORMATION	
Project Number: 12-1151-0155	Date: March 12 - 2013
client: <u>Covanta</u>	Sampled By: JESSICA + DEVON
Site Location: <u>Clarington</u>	
SITE DATA	
Time (1:43	Location ID SW3

		Surveyed reference point
		Water Depth at Staff Gauge (m)
		Stream Width (m)
	Yes / No	Stagnant
ist :	thoun to	Flow Rate

Logger Number	
Loger Download Time	
Photos Taken	Yes / No (#)
Photo Location	

Time	Dissolved Oxygen mg/L	Conductivity mS or μS	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour
11:43		0.3%	7.70		1.4%	0.21 ppt	None	None -

Sampling Method: Pole Scople	Sample ID: <u>5W3</u>
Sample Depth:	Dup taken? / Dup ID:3 - Dup
Time Sampled:	
Sample Appearance:	
Colour:	Turbidity: Low (Medium) High
Odour:	
Sample Container and Preservation:	
Weather Conditions:	ومسترجع والرباع المراسين والمسترية والمسترية المتناب والمتحد والمنافع والمراجع والمراجع والمراجع والمراجع والم
Weather Conditions: Temperature:	
Weather Conditions:	
Weather Conditions: Temperature: Current Precipitation:	•
Weather Conditions: Temperature: Current Precipitation: Precipitation of past 24 / 48 hrs:	•
Weather Conditions: Temperature: Current Precipitation:	•
Weather Conditions: Temperature: Current Precipitation: Precipitation of past 24 / 48 hrs:	•
Weather Conditions: Temperature: Current Precipitation: Precipitation of past 24 / 48 hrs:	•



PROJECT INFORMATION	
Project Number: ) 2 - \ \ 51 - 0 \ 5 5	Date: 12 March, 2013
Client: Covanta	Sampled By: Jessica + Devon
Site Location: <u>Clarington</u>	
SITE DATA	
Time 11176	

		1		W4
Surveyed reference point				
Water Depth at Staff Gauge (m)	1m -	a -	Logger Number	
Stream Width (m)	2m		Loger Download Tirne	
Stagnant	Yes No		Photos Taken	
Flow Rate	Fastflow		Photo Location	

BAMPLING PARAMETER

Time	Dissolved Oxygen mg/L	Conductivity mS or μS	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour
11:05		0.4 m5	7.76		1.4°C	0.21, Apt	Nove	none.

Sampling Method: Swins Pole -

Samping Method:	Sample ID: 4
Sample Depth:	Dup taken? / Dup ID: 4 0 up
Time Sampled:	
Sample Appearance: Colour:	Turbidity: Low Medium / High
Odour:	
Sample Container and Preservation:	-
Weather Conditions: Temperature:	
Current Precipitation:	

Precipitation of past 24 / 48 hrs: \_\_\_\_\_

Notes:

# 

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UNFA	CE WAT	er sampli	NG RECU		n			Golder
		ATION						
Proj		12-1151		,			Date: MAA	19 2013 201-
		Covant					Sampled By: <u>UEU20</u>	Prai -
S	ite Location:	Claring	100					
ITE DA	TA							
	Supported	Time reference point	9:1	S			Location ID E - S	wmp-du
Wate		taff Gauge (m)	Dr	(IN POIN		а.	Logger Number	
		eam Width (m)	<u>v s m</u>	A	,		Loger Download Time	
		Stagnant	Yes	/ No			Photos Taken	Yes /No (#)
	<u> </u>	Flow Rate	N	1A			Photo Location	
					-			
<b>AMPL</b>	NG PARAN	ETER		a a here was		<u> </u>	1	and the second sec
Time	Dissolved Oxygen mg/L	Conductivity mS or µS	pH pH Units	Redox Potentiał mV	Temperature °C	Turbidity	Colour	Odour
9:30		1.97,5	6.85		4.4	Nore) KLEAN	NONE	No
	L							
	NG RECOR	(				a iti		E-SWMP -1
	Ning Method:	· · ·			-		• • • • • • • • • • • • • • • • • • • •	
	mple Depth:	0.1	SURFOLL		-	Dup tal	ken? / Dup ID: <u>Sい</u>	
Tin	ne Sampled:	<u> </u>	25 Am		-		$\sim$	
ample /	of the second se	CL	EArc		-		Turbidity: Low / Me	dium / High
	Odour:				-		_	
ampie (		f Preservation:			. 1	. 1		
	4 x	500 m	For-	" VABI	pmy IT?	55 [NO	PROERUADO	
							- <u>-</u>	
14.1						and the second	and a state of the	
BSER	VATIONS	بالفر المتساحية	000			يعد المان ويد	<u></u>	- توسط الما المراجع
weane	r Conditions:	Temperature:	Overc	HALIT	SNOW	-		
	Currer	nt Precipitation:	T	PUCE		- 、		
Prec	cipitation of p	ast 24 / 48 hrs:	SN	DW PREI	EURA INP	MN/RAM	D ONE BRIDEN	
Notes:	Pu	MP ADTI	VE Q	Disch	Babe Mg	N, POLD D	BUTWO	
						-		
							the second se	

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ROJE							and the same and a state of the same		1.1.0
Pre		<u>12-115</u>		5			Date:Y	141-19/2013201	
		t: <u>Covan</u>		-			Sampled By:	WW / Nick	_
:	Site Location	" <u>Clarin</u>	gron_	_					
TE D	ATA								
		Time	9.1	-lo	7		Location ID	SID IN CO. A.L.	1
	Surveyed	reference poin			1			Sto, W-SWMP-TR	
Wat	ter Depth at	Staff Gauge (m)	0.5 - 1	(die fond)	-				٦
	St	ream Width (m)	1		1	35	Logger Num		-
	<u>`</u>	Stagnant		/ No	1		Loger Download Ti	4.	4
	<u> </u>	Flow Rate			4		Photos Tak	en (Yes./ No (#	Ц
				A	1	l	Photo Locat	ion	- 10
MPÙ	NG PARAN	ETER			<u></u>		নি চালিক পালি জেলে	-	_
	Dissolved	Conductivity	рH	Redox	Temperature			and a stand of a stand on a local stand	
Time	Oxygen mg/L	mSor uS	pH Units	Potential	1 outportations		-		
:40				mV	°C	Turbidity	Colour	Odour	
		0.26		m∨			Colour	Odour	+.0
<b>MPLI</b> Sampi	<b>NG RECOR</b> ling Method: mple Depth:	6.Au NGA	7.35 XG (WIA N SHOPP	en	°с 0-у	NEEL	NONE	12(2+)6 20 W-SWMP-W	pot - (
<b>MPLII</b> Sampi Sar Tim	ling Method: mple Depth: e Sampled:	D Let NGA	7.35 26 (WIA	en		NEEL	NON Sample ID: ST	12(2+)6 20 W-SWMP-W	p.t- (
<b>MPLII</b> Sampi Sar Tim	ling Method: mple Depth:	0 (.C+ N.CA 9	7.35 XG (WIA N SHOPP	en		NEEL	NON Sample ID: St n? / Dup ID: St	12:200 20 W-SWMP-M 20 Dep No	ert - (
<b>MPLII</b> Sampi Sar Tim	ling Method: mple Depth: le Sampled: opearance:	0 (.C+ N.CA 9	7.35 26 (UIA 2 Silopy 340	en		NEEL	NON Sample ID: ST	12:200 20 W-SWMP-M 20 Dep No	p:t- (
MPLI Sampi Sar Tim nple Ap	ing Method: mple Depth: e Sampled: ppearance: Colour: Odour:	0 (.C+ N.CA 9	7.35 26 (UIA 2 Silopy 340	en		NEEL	NON Sample ID: St n? / Dup ID: St	12:200 20 W-SWMP-M 20 Dep No	ert - (
MPLI Sampi Sar Tim nple Ap	ing Method: mple Depth: e Sampled: ppearance: Colour: Odour: ontainer and	Preservation:	7.35 26 (UIA 2 5:1094 :40 LEMA	en	0.8	Dup take	NON Sample ID: ST n? / Dup ID: St Turbidity: Low / M	12:200 20 W-SWMP-M 20 Dep No	p:t- (
MPU Sampi Sar Tim nple Ap	ing Method: mple Depth: e Sampled: ppearance: Colour: Odour: ontainer and	Preservation:	7.35 26 (UIA 2 5:1094 :40 LEMA	en		Dup take	NON Sample ID: ST n? / Dup ID: St Turbidity: Low / M	12:200 20 W-SWMP-M 20 Dep No	ert - (
MPU Sampi Sar Tim nple Ap	ing Method: mple Depth: e Sampled: ppearance: Colour: Odour: ontainer and	Preservation:	7.35 26 (UIA 2 5:1094 :40 LEMA	en	0.8	Dup take	NON Sample ID: ST n? / Dup ID: St Turbidity: Low / M	12:200 20 W-SWMP-M 20 Dep No	prt- (
MPU Sampi Sar Tim nple Ap	ing Method: mple Depth: e Sampled: ppearance: Colour: Odour: ontainer and	Preservation:	7.35 26 (UIA 2 5:1094 :40 LEMA	en	0.8	Dup take	NON Sample ID: ST n? / Dup ID: St Turbidity: Low / M	12:200 20 W-SWMP-M 20 Dep No	ert - (
MPCH Sampi Sar Tim nple Ap	ing Method: mple Depth: e Sampled: ppearance: Colour: Odour: ontainer and	Preservation:	7.35 26 (UIA 2 5:1094 :40 LEMA	en	0.8	Dup take	NON Sample ID: ST n? / Dup ID: St Turbidity: Low / M	12:200 20 W-SWMP-M 20 Dep No	prt- (
MPD: Sampl Sar Tim nple Ap nple Co	ing Method: mple Depth: e Sampled: opearance: Colour: Odour: ontainer and y See ATTONS	Preservation:	7.35 26 (UIA 2 5:1094 :40 LEMA	en	0.8	Dup take	NON Sample ID: ST n? / Dup ID: St Turbidity: Low / M	12:200 20 W-SWMP-M 20 Dep No	ert - (
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HOLECT NUMBER: 12-1151-0155 Client: COVARTAL Stelecation: Claring bo       Date: MARC (9 72013 201 Sampled By         Time       Client: COVARTAL Stelecation: Claring bo         Time       11:15         Surveyed reference point       Location ID         Water Depth at Staff Gauge (m)       5 TO 165 6-100         Stream Width (m)       1.0-1.2         Barplay Barbone       Photos Taken Yes / No (e         Photo Location       Photos Taken Yes / No (e         Photo Location       Photo Location         Stream Width (m)       1.0-1.2         Time       Disolved       Conductivity         PH Units       Photon Taken Yes / No (e         Time       N 2.4       N 2.4         Sampling Method:       GRAG </th <th>BO JECT INCODAL MA</th> <th>N</th> <th></th> <th></th> <th></th> <th></th> <th></th>	BO JECT INCODAL MA	N					
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Site Location:     Clocking ton       Time     11:15       Surveyed reference point     Logar Number       Water Depth at Staff Gauge (m)     Surveyed reference point       Stream Width (m)     1.0-1.2 m.       Big Depth at Staff Gauge (m)     Surveyed reference point       Water Depth at Staff Gauge (m)     Surveyed reference point       Big Depth at Staff Gauge (m)     Surveyed reference point       Big Disolved     Md Start       Big Disolved     Conductivity       Photos Taken     Yes / No (#       Photo Location     Photo Location       Big Disolved     Conductivity       mpl PH Units     Temperature       Turbidity     Colour       MPLING PACOND       Sampling Method:     (PA A)       Sample Depth:     MSM SWERMU       Time Sampled:     11:15       Time Sampled:     11:15       Time Sampled:     11:15       Turbidity: Low     Medium / High							0
Time     II:IX       Surveyed reference point       Water Dopth at Staff Gauge (m)     Sc. TP (IC   6-20 chown)       Stream Width (m)     I.eI.2.m.       Stagnant     Yes / (ii)       Flow Rate     MUTO Stagnant       Yes / (iii)     Photos Taken       Photos Taken     Yes / (ivi)       MPLING PAPAMETER     Turbidity       Time     Oxgen     Oxdour       Sampling Method:     GRAD     Sample ID:       Sample Depth:     NEMA SWERMA     Dup taken? / Dup ID:       Time Sampled:     IYE     Turbidity: Cowy       MPLING RECORD     Turbidity: Cowy     Medium / High			(5				
Surveyed reference point         Water Depth at Staff Gauge (m)         Stream Width (m)       1.0 - 1.2 m.         Stagnant       Yes / (kio)         Flow Rate       Msg (kark)         Photos Taken       Yes / No (#)         Photos Conductivity       pH         Pledox       Temperature       Turbidity         Conductivity       pH       Pledox         mpl       Dissolved       Conductivity         Oxygen       Conductivity       pH         Pledox       Temperature       Turbidity         Colour       Odour       Odour         IX       2.46       7.43       0.2         Sampling Method:	TE DATA						1.1
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Stream Width (m)     I.eI.2m.       Stagnant     Yes / No       Flow Rate     Mont Control       Photo Location         MiPLING ParkaMETER         Time     Dissolved (mS)or μS     PH       Pactorial     Temperature       Time     Dissolved (mS)or μS     PH Units       Time     N J.K     PL N J.K       Colour     Sample BECORD       Sample Record     Sample ID:       Sample Depth:     N J.K       NDP Associations     Dup taken? / Dup ID:       Supple Appearance:     CLC MP       Colour:     N J.K       Odour:     N J.K	Water Depth at Staff Ga	uge (m) 5 m To i	16 18-20 cm 70	<b>in.</b>	Loggèr Nu	Ther	
Stagnant       Yes / No         Flow Rate       Mag (cark)         Photos Taken       Yes / No (#)         Photo Location       Photo Location         Stagnant       Yes / No (#)         Photo Location       Photo Location         Stagnant       Ph	Stream W	idth (m) 🛛 👔 🗕 —	1.2m				
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AMPLING PARAMETER         Time       Dissolved Oxygen       Conductivity       pH       Petential Potential       Temperature       Turbidity       Colour       Odour         :15	Fic	w Rate Mont	RANE				
Dissolved Oxygen mg/L     Conductivity pH     PH Potential mV     Temperature c     Turbidity     Colour     Odour       :K     3.46     7.43     0.2     NJJC     CLEAN     NJJC     NJJC       Sampling Method:     6RA6     Sample ID:     5.02     0.2       Sample Depth:     NEM SVARMU     Dup taken? / Dup ID:     5.02     0.00       Time Sampled:     1115     Turbidity:     Turbidity:     Turbidity:       Odour     NJJC     NJJC     Medium / High							]
Time     Oxygen     Conductivity     pH     Potential     Temperature     Turbidity     Colour     Odour       :15     -     3.46     7.43     -     0.2     NJJC/J     CLEAN     NJJC/J     NJJC/J       :15     -     3.46     7.43     -     0.2     NJJC/J     CLEAN     NJJC/J       MPLING RECORD     Sample Depth:						and the second sec	
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4× 500 ml SAMPUNE ROTTIES (NO PRESORUIATIUS)	Sampling Method: Sample Depth: Time Sampled: nple Appearance: Colour:	GRAD NEMA SURM 11:15 CLÉAR			Sample ID:S ken? / Dup ID:S	w] w2 Dup	
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	Sampling Method: Sample Depth: Time Sampled: mple Appearance: Colour: Odour: nple Container and Presen	GRAD NEAM SURA 11:15 CLEAR NON		Dup ta	Sample ID:S ken? / Dup ID:S	w] w2 Dup	
and the second	Sampling Method: Sample Depth: Time Sampled: mple Appearance: Colour: Odour: nple Container and Presen I Y 500 mL	GRAG NEM SURM 11:15 CLEAR NEN MENNE AMPINE	и ютиз (мэ	Dup ta	Sample ID:S ken? / Dup ID:S	w] w2 Dup	
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		Time	11:34	2	7		Location ID S	w?	
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Wate	er Depth at \$	Staff Gauge (m)	0.2.	- 0.4m	]	20	Logger Number		
	St	ream Width (m)	, M   .	Sm			Loger Download Time		
	·	Stagnant	Yes	1 10	1		Photos Taken	Yes / No (#	
		Flow Rate	MODER	LONE - FAM	5		Photo Location		
	IC PARAL	and the second se				-		-	
	Dissolved			Redox	<u> </u>	5			
lime	Oxygen mg/L	Conductivity mS or μS	pH pH Units	Potentiał mV	Temperature °C	Turbidity	Colour	Odour	2
:30	1	1.42	7.64		0,5		Nane	None	0.76 2
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Sampli San Tim rpte Ap npte Co SERVA Eather C	ng Method: nple Depth: e Sampled: pearance: Colour: Odour: ntainer and L Y Spa NTIONS Conditions: Current	GRIP NEAM NEAM IL:3 CLEA NO Preservation: 2 SL SH CENTRE	North	lomb (	D> PAESE	eibrik (	Turbidity: Low / Medi	3_Ουρ	
Sampil San Tim rple Ap nple Co	ng Method: nple Depth: e Sampled: pearance: Colour: Odour: ntainer and L Y Spa NTIONS Conditions: Current	GRIP NEAM NEAM IL:3 CLEA NI Preservation: 2 SL SH Startion: Precipitation: st 24 / 48 hrs:	Non	lomus (		eibrik (	Turbidity: Low / Medi	3_Ουρ	

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Client:     COUCAT CA     Sampled By:     UILL (1) (COUC       Site Location:     Clicking bon       EBATA     Imme     10:50       Surveyed reference point     0.30 mm0.5n       Stream Writh (m)     2 mm       Stagnard     Yee / (iii)       Proto Location:     Photo Taken       Billsofvee     Colouri     0.30 mm0.5n       Proto Dotting bon     Billsofvee     Photo Taken       Vee / (iii)     Photo Taken     Photo Taken       Proto Location     Photo Taken     Vee / (iii)       Photo Taken     Photo Taken     Photo Taken       Proto Location     Photo Taken     Photo Taken       Photo Taken     Photo Taken     Photo Taken       Photo Taken     Photo Taken     Photo Location       Photo Doptic     Photo Taken     Photo Location       Photo Taken     Photo Taken     Photo Location       Photo Doptic     Photo Taken     Photo Location       Photo Doptic     Photo Taken     Photo Location       Photo Doptic     Photo Taken     Photo Location       Photo Taken     Photo Taken     Photo Location       Photo Doptic     Photo Taken     Photo Taken       Photo Doptic     Photo Taken     Photo Location       Sample Dight:     ND		mber: 12-11		5			Date:		1213 2017
E PATA       Time       [0:50       Location ID       Study         Surveyed reference point       0.30 mm0.5m       Logger Number         Stream Width (m)       3 mm       Logger Download Time         Steparat       Vee / (No)       Photos Talen       Photos Talen         PDING PARAMETER       Photos Location       Photos Location         PDING PARAMETER       Turbidity       Colour       Odour         mgL       (m5' or µS)       PH Units       Turbidity       Nork (m)         prov Rate       Mon (Appendent)       Nork (M)       Nork (M)       Nork (M)         prov Rate       Mon (Appendent)       Photos Location       Nork (M)       Nork (M)         prov Rate       Mon (Appendent)       Photos Location       Nork (M)       Nork (M)         prov Rate       Mon (Appendent)       Photos Location       Nork (M)       Nork (M)         prov Rate       Mon (Appendent)       Nork (M)       Nork (M)       Nork (M)         prov Rate       Mon (Appendent)       Nork (M)       Nork (M)       Nork (M)         prover Rate       Mon (Appendent)       Mon (M)       Nork (M)       Nork (M)         prover Mathematic       Mon (M)       Mon (M)       Nork (M)       Nork (M)				2			Sampled By: _	VILK	1 DEVON
Time       (b:50         Surveyed reference point       (b:50         Water Depth at Staff Gauge (m)       (b:30 meD.5n)         Stream Writh (m)       (m)         Stream Writh (m)       (m)         Biosolved       Monthage         Phone Rate       Monthage         Reget Rate       Mone			J	-					
Surveyed reference point       U.20         Water Depth at Staff Gauge (m)       U.30 mmD.30         Stream Width (m)       J.m.         Stream Width (m)       J.m.         Stream Width (m)       J.m.         Bissolved       Conductivity         Photos Taken       Ves / (h)	DATA								ید بر محصور از ۲۰ <u>را بار بار مقر شا</u> هه
Surveyed reference point         Water Depth at Staff Gauge (m)       )       30 mm 0.5/m         Stream Width (m)       3.m       Logger Number         Stagnant       Yes / (ho)       Photos Taken         Plote Stagnant       Yes / (ho)       Photos Taken         PLING_PARAMETER       Montification       Photos Taken         me       Dissolved       Conductivity       pH         me       Dissolved       Conductivity       pH         me       Dissolved       Conductivity       pH         mgo r_JS       pH Units       Potential       Temperature         mpL       1.34       7.6/g       Montified       Odour         Sol       1.34       7.6/g       Montified       North Stream         registration:       USA       Visit       North Stream       North Stream         registration:       USA       Sample Depth:       North Stream       North Stream         registration:       USA       Visit       Dup taken? / Dup ID:       Struam         registration:       North Stream       Dup       North High         colour:       North Stream       Dup       North High         cdour:       North Stream       North Stream<		Tin	ne (bij	50.			Location ID	Sh	24
Stream Width (m)       Logger Number         Stream Width (m)       Logger Number         Stagnart       Yes / No         Flow Rate       Montage         Photos Taken       Yes / No         Sampled	Surve	eyed reference poi	int						
Stagnart       Yes / No         Flow Rate       MODERAT         Plutos ParkadieTPER       Photos Taken         Dissolved       Conductivity       pH         Plutos ParkadieTPER       Temperature       Turbidity         Colour       Odour       Odour         Odogen       Conductivity       pH         Plutos ParkadieTPER       Temperature       Turbidity         Colour       Odour       Odour         Stagnart       Visit       Norse / Lance         Plutos ParkadieTPER       Colour       Odour         and moder       Odour       Norse / Lance         Stagnart       Visit       Norse / Lance         Stagnart       Visit       Norse / Lance         Plutos ParkadieTPER       Norse / Lance       Norse / Lance         Sample Deptt:       Norse / Lance       Norse / Lance         Sample Deptt:       Norse / Lance       Dup taken? / Dup ID:       Sub         Colour       Norse       Dup       Sub       Dup         Volut       Norse / Lance       Dup       Norse / Lance       Norse / Lance         Colour       Norse / Lance       Dup       Dup       Norse / Lance         Vodour	Water Dept	n at Staff Gauge (r	n) 👌	30 m0.5n	2	5	Logge	r Number	
Flow Rate       M 37 (Abge)         Plug Parameter       Photo Location         Plug Parameter       Dissolved         Oxygen       Conductivity       pH         Plug Parameter       Potorial         mgl       mod or 1/8         potor 1/8       mod or 1/8         mgl       Mod or 1/8         potor 1/8       mod or 1/8         mgl       Mod or 1/8         potor 1/8       Mod or 1/8		Stream Width (r	n) <u>}</u>	m					
Flow Rate       MJD CARE       Photo Location         PPLNG PARAMETER <ul> <li></li></ul>		Stagna	nt Yes	/ 10	]				es / No (#
PILING PARAMETER         ne       Dissolved Oxygen       Conductivity       pH       Potensial mV       Temperature c       Turbidity       Colour       Odour         20       1.34       7.63       1.244       Norscht Ander       Norscht Ander         20       1.34       7.63       1.244       Norscht Ander       Norscht Ander         20       1.34       7.63       1.244       Norscht Ander       Norscht Ander         20       1.34       7.63       M       M       Norscht Ander         20       1.34       7.63       M       M       Norscht Ander         20       1.34       Norscht Ander       Dup       Dup       Dup         3ample Depth:       Norscht Ander       Dup       Dup       Dup         Time Sampled:       10.34       86.04       Turbidity: Low       Medium / High         Odour:       M SAM       Norscht Ander       Norscht Ander		Flow Ra	e Monie	SAR			Photo		
Dissolved Oxygen mg/L       Conductivity pH Units       pH pH Units       Redox Potential       Temperature C       Turbidity       Colour       Odour         50       1.34       7.53       1.24       Nork /r and Low       Nork /r and Nork       Nork /r and Nork       Nork /r and Nork       Nork /r and Nork         PD103 PECOND       Mail       Mail       Mail       Nork /r Low       Nork /r and Nork       Nork		5			- 				
ne       Corputativity       pH       Potential       Temperature       Turbidity       Colour       Odour         20       1.34       7.65       1.2.4%       Norsc/Lr. And       Norsc/Lr. And		and			dense Faller	1			and the second
50       1.34       7.63       1.2.44       Norse for Annual Norse         PD142 RECORD       6       9       M         ampling Method:       6       9       M         Sample Depth:       Norse for Annual North       Dup taken? / Dup ID:       Swith         Sample Depth:       Norse for Annual North       Dup taken? / Dup ID:       Swith         Image: Sample Depth:       Norse for Annual North       Dup taken? / Dup ID:       Swith         Image: Sample Depth:       Norse for Annual North       Dup taken? / Dup ID:       Swith         Image: Sample Depth:       Norse for Annual North       Dup taken? / Dup ID:       Swith         Image: Sample Depth:       Norse for Annual North       Norse for Annual North       North         Image: Sample Depth:       North Seam       Turbidity: Low       Medium / High         Odour:       North Seam       North Seam       Turbidity:       North Seam         Image: Sample Depth:       North Seam       North Seam       North Seam         Image: Sample Depth:       North Seam       North Seam       North Seam         Image: Sample Depth:       North Seam       North Seam       North Seam         Image: Sample Depth:       North Seam       North Seam       North Seam	ne Oxyg	en Conductivity		Potential		Turbidity	Colou	r i	Odour
PUNA RECOND         ampling Method:       GRAD         Sample Depth:       NEW SUPPLIC         Time Sampled:       NEW SUPPLIC         Time Sampled:       NEW SUPPLIC         Dup taken? / Dup ID:       SW P         de Appearance:       CODM/ KLARW         Colour:       NEW SUPPLIC         Dup taken? / Dup ID:       SW P         de Appearance:       NEW SUPPLIC         Colour:       NEW SUPPLIC         Colour:       NEW SUPPLIC         VE Container and Preservation:       NEW SUPPLIC         44 Son M SAMAC BUTTLES, NO PAGENIANIX         Invoiditions:       NEW SUPPLIC         Current Precipitation:       NEW SUPPLIC         Current Precipitation:       NEW SUPPLIC         NEW Supplication of past 24 / 48 hrs:       NEW SUPPLICATIONS						1.1.25			
ampling Method:	20	1.2	K0.1		1.200	Nº LOW	NOUS	BRAN	Nort
ampling Method:	PÜNG REC	ORD	6	160	- M				
Sample Depth:       NEWA SUDERUL         Time Sampled:       10:50         Ne Appearance:       CUMA / M. BRANN         Colour:       NBAN         Odour:       NBAN         Ve Container and Preservation:       Turbidity: Low         44 500 mL SAMAC BATTLES, NO Pactern JAMA         FRVATIONS         her Conditions:         Temperature:       NO <sup>CL</sup> Current Precipitation:         NDVL         recipitation of past 24 / 48 hrs:         Novi Fa. Land Anny Evenantia			LAB			the an an in	Secolo ID:	SwV	and the states of the
Time Sampled:				(	•	Duo tek		-	
Colour:	Time Sampl	1			•	Dup tak	ani / oup io		000
Odour:								~	
RVATIONS Temperature: NO CL Current Precipitation: NO CL recipitation of past 24 / 48 hrs: NON FALLAN AAN WEALANM	Cole	-		RENE			Turbidity: Lo	w/ Medium	1 / High
4 Y 500 mL SAMPLE POTTLES, NO PARAGONJADIA INVATIONS her Conditions: Temperature: D <sup>CL</sup> Current Precipitation: NDVL recipitation of past 24 / 48 hrs: <u>NUM FR. LAND AND DUDANIM</u>									
Inter Conditions:         Temperature:       NO         Current Precipitation:       NOVE         recipitation of past 24 / 48 hrs:       NOVE FALLAND NAW EVERANCE						. T			5
her Conditions: Temperature: <u>ND<sup>CC</sup></u> Current Precipitation: <u>ND<sup>CC</sup></u> recipitation of past 24 / 48 hrs: <u>NNN FR. LAN ANN WERM</u>	74 20	o me jami	LE HOT	LES, No	Preferry				
her Conditions: Temperature: <u>ND<sup>CC</sup></u> Current Precipitation: <u>ND<sup>CC</sup></u> recipitation of past 24 / 48 hrs: <u>NNN FR. LAN ANN WERM</u>						· · · · ·			
her Conditions: Temperature: <u>ND<sup>CC</sup></u> Current Precipitation: <u>ND<sup>CC</sup></u> recipitation of past 24 / 48 hrs: <u>NNN FR. LAN ANN WERM</u>		· · · · · · · · · · · · · · · · · · ·							
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Temperature: <u>VD</u> Current Precipitation: <u>NDVE</u> recipitation of past 24 / 48 hrs: <u>NWV FR. LAND AND DVERANUM</u>	TTALURS	a shings have and a star of	1997 - Series	رويون مروليات مو		فينقد بندريه			ويتوشون بعرار يتمر وا
recipitation of past 24/48 hrs: SNW FR. LAND ANW WERLING	her Condition		<u>∼</u> 0						
	her Condition			L					
ss: Sampling From No-Link		Temperature:	Nov						
	Cur	Temperature: rent Precipitation:	1 1	LANDIN	IN WERLAN	uni			
	Currecipitation o	Temperature: rent Precipitation: f past 24 / 48 hrs:	1 1	- LAND A	IN WERLAN	m			
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	Currecipitation o	Temperature: rent Precipitation: f past 24 / 48 hrs:	1 1	LAND N	nd dienay.	unl			
	Cun	Temperature: rent Precipitation: f past 24 / 48 hrs:	1 1	- LAN2   AJ - LINE	IN MERLY.	un!			

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Project Number:       12 - 1151 - 0155         Client:       COV OAT A         Site Location:       Claring hon         Time       9:45         Surveyed reference point       Lecetion tD E - SWMP - iN         Water Depth at Staff Gauge (m) ~ 1 Nn -       Logger Number         Stream Width (m)       Photos Taken Yeir/No (#         Photos Taken Yeir/No (#       Photos Taken Yeir/No (#         Mary Max Assessment       Yeir/No (#         Mary Max Assessment       Yeir/No (#         Mary Max Assessment       Phillints         Mary Max Assessment       None -         Mary Max Assessment       None -         Mary Max Assessment       Semple Dit         Sample Depth:       Time         Mary Mary Assessment       Semple Dit         Sampling Method:       Semple Depth:         Mary Max Aspa	Project Number: $12 - 1151 - 0155$ Clint: COVARTA       Dets: $April 3, ADI3$ Sampled By: $Devon + Sessica         Site Location: Clackap bon       Sampled By: Devon + Sessica         Site Location: Clackap bon       Location B E - SWMP - iN         Surveyed reference point       Location B E - SWMP - iN         Water Depth at Staff Basgo (M) \sim 1m.       Location B E - SWMP - iN         Stream Width (m)       Sampled By: Devon + Sessica         Stream Width (m)       Sampled By: Devon + Sessica         Prove Rate       Prove Rate         The Dopoint at Staff Basgo (M) \sim 1m.       Location         Starphong Particular Temporature       Turbidity         Conductivity       pH         Prive Rate       Prove Rate         The Dopoint at Staff Basgo (M) \sim 1m.       Sample Bit C SWMP - 1N         Sampling Method:       Schapling Part 2         Sample Depth:       -1n.         The Sampling Method:       Schapling Part 2         Cotour:       U \in G         The Sample Depth:       -1n.         Dup tatem? (Dup D: C SWMP - 1N         Sample Depth:       -1n.         Dup tatem? (Dup D: C SWMP - 1N         Dup tatem? (Dup D: C SWMP - 1N         Sample Depth:       -1n.         Dup tatem? $		ot üleas		د سب مر بوت	ماسمىت كالمارية	المحدد وججاحات					solder	
Client:       COVANTA         Site Location:       Claring hon         Time       G: 45         Surveyed reference point       Location ID E - SWMP - iN         Water Depth at Staff Gauge (m) $\sim$ 1/h -         Stream Width (m)       Logger Number         Stream Width (m)       Photos Taken         Stream Width (m)       Photos Stream         Stream Width (m)       Photos Stream         Stream Width (m)       Photos Stream         Stream Width (m)       Phot	Client: COVERATE Site Location: Clearing box Site Location: Clearing box Site Location: Clearing box Site Location: Clearing box Surveyed reference point Water Depth at Staff Gauge (M $\sim 1m$ . Stream Witch (m) Stream Wit		station in station	ملساسة فاستر بر ملك ا	51-015	5. 5			- Andrewski - A	نىمىسىيىتى <u>م</u>	فيقد فاحتجمت بالت		
Site Location: Claring ba         Site Location: Claring ba         Location: Claring ba         Location: Description         Surveyed reference point         Water Depth at Staff Gauge (m) ~ 1m -         Stream Width (m)         Colductivity pH       Photo Stream Width (m)         Mid Dissolved       Colour       Odour         Stream Width (m)       Colour <th col<="" td=""><td>Site Location:       Clearing ton         The PATA       Image: Site Location:         Time       9:45         Surveyed reference point       Location:         Weber Deph at Staff Gauge (m)       <math>\sim</math> 1 m.         Stream Webrit (m)       Stream Webrit (m)         Stream Webrit (m)       Stream Vebrit (m)         Stream Webrit (m)       Phil Point (m)         Belock       Photos Tatean Vebrit (m)         Belock       Photos Tatean Vebrit (m)         Belock       Phil Point (m)         Mebric (m)       Phil Point (m)         Belock       Phil Point (m)         Mebric (m)       Phil Point (m)         Sample (m)       Phil Point (m)         Sample (m)       Sample (m)         Mebric (m)       Phil Point (m)         Sample (m)       Sample (m)         Sample (m)       Phil Point (m)         Sample (m)       Phil Point (m)         <t< td=""><td></td><td></td><td></td><td></td><td><b>.</b></td><td></td><td></td><td></td><td><u>Hpri</u></td><td>+ 500</td><td><u> 2013</u></td></t<></td></th>	<td>Site Location:       Clearing ton         The PATA       Image: Site Location:         Time       9:45         Surveyed reference point       Location:         Weber Deph at Staff Gauge (m)       <math>\sim</math> 1 m.         Stream Webrit (m)       Stream Webrit (m)         Stream Webrit (m)       Stream Vebrit (m)         Stream Webrit (m)       Phil Point (m)         Belock       Photos Tatean Vebrit (m)         Belock       Photos Tatean Vebrit (m)         Belock       Phil Point (m)         Mebric (m)       Phil Point (m)         Belock       Phil Point (m)         Mebric (m)       Phil Point (m)         Sample (m)       Phil Point (m)         Sample (m)       Sample (m)         Mebric (m)       Phil Point (m)         Sample (m)       Sample (m)         Sample (m)       Phil Point (m)         Sample (m)       Phil Point (m)         <t< td=""><td></td><td></td><td></td><td></td><td><b>.</b></td><td></td><td></td><td></td><td><u>Hpri</u></td><td>+ 500</td><td><u> 2013</u></td></t<></td>	Site Location:       Clearing ton         The PATA       Image: Site Location:         Time       9:45         Surveyed reference point       Location:         Weber Deph at Staff Gauge (m) $\sim$ 1 m.         Stream Webrit (m)       Stream Webrit (m)         Stream Webrit (m)       Stream Vebrit (m)         Stream Webrit (m)       Phil Point (m)         Belock       Photos Tatean Vebrit (m)         Belock       Photos Tatean Vebrit (m)         Belock       Phil Point (m)         Mebric (m)       Phil Point (m)         Belock       Phil Point (m)         Mebric (m)       Phil Point (m)         Sample (m)       Phil Point (m)         Sample (m)       Sample (m)         Mebric (m)       Phil Point (m)         Sample (m)       Sample (m)         Sample (m)       Phil Point (m)         Sample (m)       Phil Point (m) <t< td=""><td></td><td></td><td></td><td></td><td><b>.</b></td><td></td><td></td><td></td><td><u>Hpri</u></td><td>+ 500</td><td><u> 2013</u></td></t<>					<b>.</b>				<u>Hpri</u>	+ 500	<u> 2013</u>
Time       9:45         Surveyed reference point       Incestion ID E - SWMP - iN         Water Depth at Staff Gauge (m)       Im.         Stream Width (m)       Incestion ID E - SWMP - iN         Stream Width (m)       Incestion ID E - SWMP - iN         Stream Width (m)       Incestion ID E - SWMP - iN         Stream Width (m)       Incestion ID E - SWMP - iN         Stream Width (m)       Incestion ID E - SWMP - iN         Stream Width (m)       Stream Width (m)         Bissolved       Conductivity         Photos Taken       Yeil         Sample Deptit:       PH Units         Time Sampled:       9:45         Sample Deptit:       Photos Taken         Time Sampled:       9:45         Picken?       Medium / High <td>Time       9:45         Surveyed reference point         Water Depth at Staff Gauge (m)       ~ 1 m.         Stream Width (m)       Stream Width (m)         Stagnant       (m)         Stream Width (m)       Stagnant         Besolved       Conductivity         Photos Taken       Photos Taken         Photos Taken       Photos Taken         Besolved       Conductivity         phi       Plandox         me       Dissolved         Dissolved       Conductivity         phi       Plandox         me       Dissolved         Dissolved       Conductivity         phi       Plandox         me       Dissolved         Obugen       Conductivity         phi       Plandox         me       Dissolved         Dissolved       Colour         Queryme       Colour         Queryme       Odour         gample Depth:       1         Dissolved       Semple Dip:         Sample Depth:       1         Dip taken? / Dup ID:       Stagnant         pice Appearance:       Colour         Colour:       Nonc</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>Sampiou Dy. 4</td> <td>Jevon</td> <td>7 365</td> <td>sica</td>	Time       9:45         Surveyed reference point         Water Depth at Staff Gauge (m)       ~ 1 m.         Stream Width (m)       Stream Width (m)         Stagnant       (m)         Stream Width (m)       Stagnant         Besolved       Conductivity         Photos Taken       Photos Taken         Photos Taken       Photos Taken         Besolved       Conductivity         phi       Plandox         me       Dissolved         Dissolved       Conductivity         phi       Plandox         me       Dissolved         Dissolved       Conductivity         phi       Plandox         me       Dissolved         Obugen       Conductivity         phi       Plandox         me       Dissolved         Dissolved       Colour         Queryme       Colour         Queryme       Odour         gample Depth:       1         Dissolved       Semple Dip:         Sample Depth:       1         Dip taken? / Dup ID:       Stagnant         pice Appearance:       Colour         Colour:       Nonc					-			Sampiou Dy. 4	Jevon	7 365	sica	
Time       9:45         Surveyed reference point       Incestion ID E - SWMP - iN         Water Depth at Staff Gauge (m)       ~ 1m -         Stream Width (m)       Incestion ID E - SWMP - iN         Stream Width (m)       Incestion ID E - SWMP - iN         Stream Width (m)       Incestion ID E - SWMP - iN         Stream Width (m)       Incestion ID E - SWMP - iN         Stream Width (m)       Incestion ID E - SWMP - iN         Stream Width (m)       Stream Width (m)         Bissolved       Conductivity         Flow Rate       Photos Taken         WPLNG EARANETPE       Photos Taken         me       Dissolved         Conductivity       pH         Potential       Temperature         Turbidity       Colour         Odour       Odour         45<-87	Time       9:45         Surveyed reference point       Veter Depth at Stuff Gauge (m)       ~ 1 m .         Stream Width (m)       Stream Width (m)       Logater Number         Stream Width (m)       Stream Width (m)       Logater Number         Stream Width (m)       Stream Width (m)       Logater Number         Bingrand       Yes) / NO       Port 1.       Photos Taken         Prove Rate       Photos Taken       Stream Width (m)       Photos Taken         Bingrady (m)       Phil       Peddox       Photos Taken       Stream (m)         Photos Taken       Photos Taken       Stream (m)       Odour       Photos Taken         Bingrady (m)       Phil       Peddox       Turbidity       Colour       Odour         Mine       Onductivity       Phil       Peddox       Turbidity       Colour       Odour         45       2.1L mS       5.5 P       1       Ncne       Ncne       Ncne         Sample Depth:       ~ 1 M       _				5								
Surveyed reference point         Water Depth at Staff Gauge (m)         Stream Width (m)         Biasolved         Orggen         Conductivity         pH         Potential         rec         Orggen         me         Orggen         may Dissolved         Orggen         may Dissolved         may Dissolved         Orggen         may Dissolved         may Dissolved         Orggen         may Dissolved         Orggen         may Dissolved         Orggen         may Dissolved         may Dissolved         My Dissolved         Time Sampled:         914 5         pie Appearance:         Colour:         Non c         Dissolved         My Dissolved         My Dissolved         My Dissolved	Surveyed reference point         Water Daph at Staff Gauge (m)         Stream Width (m)         Bagnant         Flow Rate         Prove Rate         Photos Taken / Kei / No (e         Sample Dept:         Sample Dept:         The Sampled:         Sample Dept:         Sample Dept:         The Sampled:         Q1 45         Odour:       NCAL         Colour:       NCAL         Dis conductors:	TË D	ATA										
Conjug Number         Logger Number         Stream Width (m)         Photos Cade Time         Photos Cade Time         Photos Cade Time         Time Sample Depth:         Output Sample Colspan="2">Output Sample Depth:         Output Sample Colspan         Sample Colspan         Time Sampled:         Output Sample         Output Sample Colspan         Sample Colspan         Time Sampled:         Output Sample         Output Sample         Output Sample Colspan         Sample Colspan         Output Sam	Outputs its staff Gauge (m) ~ 1 m -         Stream Witch (m)         Prove Rate         Prove Rate         Prove Rate         Discoved Conductively pH         Prove Rate         Turbidity         Colour         Oddour	_		Time	9:4	15	7		Location ID	- 50	1140		
Logger Number         Stream Width (m)       Logger Download Time         Stagnant       Yes/ / No       Photos Taken       Yes/ / No (#	Stream Width (m)       Loger Download Time         Stagnant       (m) / No         Flow Rate       Photos Taken         Aug Date Partial       Photos Taken         Ime       Dissolved       Conductivity         pH       Petersial       Temperature         mg/L       Dissolved       Colour       Odour         Aug Date Partial       mov       c       Turbidity       Colour       Odour         Aug Date Partial       mov / c       Temperature       Turbidity       Colour       Odour         May Date Partial       mov / c       None       None       None         Sample Dapti:		Surveyed	reference poin	t							<u> </u>	
Stream Width (m)         Logger Number         Stagnant       Ves/ / No       Port         Flow Rate         Photos Taken       Ves/ / No (#         Photos Taken         Photos Taken       Ves/ / No (#         Photos Taken       Ves/ / No (#         Photos Taken       Ves/ / No (#         Photos Codur       Odour         Odour       Photos Codur       Odour         Odour       Photos Codur       Odour         Medium       Pedeox       Temperature       Turbidity       Colour       Odour         Medium       PH Units       Temperature       Turbidity       Colour       Odour         45       2.16 mS       5.5 9       45 - 8 1       Non e       Non e         Sampling Method:       Sample Rel e:         5ample Depth:       ~1 m.       Dup taken? / Dup ID: E SWMP - IN         Sample depth:       Turbidity: Low / Medium / High         Odour:       Non e       Turbidity: Low / Medium / High	Streem Writtin (n)       Loger Number         Stagnart       (rei) / No         Prov Rate       Photos Taken         New Pate       Photos Location         New Pate       Photos Colour         Visaolved       Colour         New Pate       New Pate         New Pate       New Pate         Sampling Method:       Sample Dept:	Wat	ter Depth at	Staff Gauge (m)	~ Im		1						
Stagnant       Yes/ No       Photos Taken       Photos Taken         Flow Rate       Photos Taken       Photos Taken       Photos Taken       Photos Taken         Impluing Parameterse       Photos Taken	Stagnant       Yes) / No       Product         Flow Rate       Photes Taken       Fight No (9         Photes Taken       Photes Taken       Odour         VarDate Photes Taken       Photes Taken       Odour         VarDate Photes Taken       Photes Taken       Odour         VarDate Photes Taken       Sample Reports       N Cn (2         Sample Deptit:       Time       Sample Reports       N Cn (2         Time Sampled:       9 ! Y 5       Dup taken? / Dup ID: E Sup (2 ) Ove       Dup taken? / Dup ID: E Sup (2 ) Ove         Sample Oppit:       Time       N Cn (2       Turbidity: (10) ( Medium / High         Odour:       N Cn (2       N Cn (2       Turbidity: (10) ( Medium / High         Odour:       N Cn (2       S' C       Over(Cn (5)         Sample Container and		St	ream Width (m)	1		1						
Flow Rate     Photos Taken     Yeig/ No (#       Ime     Dissolved     Conductivity     pH     Redox       ime     Oxygen     Conductivity     pH     Potential       mg/L     mS or µS     pH Units     Temperature     Turbidity       Q5     2.16 mS     5.5 %     45.5 %     None.       Q60ur     2.16 mS     5.5 %     45.5 %     None.       MPUNO RECORD     Sample Depth:     1.6 C     None.     None.       Sample Depth:     1.0 C     Dup taken? / Dup ID: E SWMP-IN     Dup taken? / Dup ID: E SWMP.       Die Appearance:     Colour:     None.     Turbidity: Low / Medium / High	Flow Rate       Photos Taken       Periods Taken         America Conductivity       pH       Redox       Protos Taken       Protos Taken         Time       Dissolved       Conductivity       pH       Pederalial       Temporature       Turbidity       Colour       Odour         1/45       2.16 mS       5.5 °       1       None       None       None         Sampling Method:       Scopping       Sample Depit:       1.6 C       None       None         Time Sampled:       9.14 %       Dup taken? / Dup ID: E SWMP - IN       Dup taken? / Dup ID: E SWMP - IN         Sample Depit:       1.6 C       None       Turbidity: Low / Medium / High         Odour       None       None       Turbidity: Low / Medium / High         Odour       None       Sample Depit:       1.6 C       None         mple Appearance:       Colour       None       Turbidity: Low / Medium / High         Odour       None       Solution:       None       Protoin:         SerivAtions:       Solution:       Solution:       None       Protoin:         Serie Appearance:       Colour       None       None       Protoin:         Odour       None       Solution:       None       None <td></td> <td>·</td> <td>Stagnan</td> <td>Yes</td> <td>/ No</td> <td>1</td> <td></td> <td>Loger Downic</td> <td></td> <td></td> <td></td>		·	Stagnan	Yes	/ No	1		Loger Downic				
MPLING PARAMETER         Ime       Observed Oxogen mg/L       Conductivity pH       pH Potential mV       Temperature vc       Turbidity       Colour       Odour         45       2.16 mS       6.59       45.87       None.       None.       None.         45       2.16 mS       6.59       45.87       None.       None.       None.         45       2.16 mS       6.59       45.87       None.       None.       None.         45       2.16 mS       6.59       7.60       None.       None.       None.         45       2.16 mS       6.59       7.60       None.       None.       None.         45       3.16 mS       6.59       7.60       None.       None.       None.         45       3.16 mS       6.59       7.60       None.       None.       None.         49       11 mS       5.99       1.60       None.       None.       None.         Sample Depth:       11 m.       Dup taken? / Dup ID:       CSWMP Dup       Dup taken? / Dup / Medium / High         Odour:       None.       None.       Turbidity: Cov / Medium / High       None.	Photo Location         AMPLING LARANETER         Time       Conductivity       pH       Potential       Temporature       Turbidity       Colour       Odour         145       2.16 mS       5.59       15.57       None.       None.       None.         VaPDate AECORD       Sample Depth:       1.60       None.       None.       None.         Sample Depth:       1.00       1.00       Sample ID:       Suppl. Dup ID:       Suppl. Dup         Time Sampled:       9:45       1.00       None.       None.       None.         Time Sampled:       9:45       100       Dup taken? / Dup ID:       Suppl. Dup         Time Sampled:       9:45       100       Turbidity. Cont.       Medium / High         Odour:       None.       None.       None.       None.         mple Appearance:       11.60       Turbidity. Cont.       Medium / High         Odour:       None.       None.       None.       None.         mple Container and Preservation:       Stater Conditions:       Stater Conditions:       Stater Conditions:       None.         Temporature:       Stater Conditions:       Stater Conditions:       None.       None.       Pad. du         ptes:	_	<u> </u>			10	12-		Photo	s Taken	100 (#		
Dissolved Oxygen mg/L     Conductivity     pH     Redox Potential mV     Temperature C     Turbidity     Colour     Odour       45     2.16 mS     5.59     45-87     None     None     None       49     2.16 mS     5.59     45-87     None     None       appling Alecopho     Sample Both:	Dissolved Oxygen mg/L       Conductivity pH       pH potential mV       Temporature c       Turbidity       Colour       Odour         345       3.16 mS       5.59       45-37       NONE       NONE       NONE         Sample Depth:       1       NONE       Sample ID:       E       SWMP-IN         Sample Depth:       1       NONE       Sample ID:       E       SWMP-IN         Sample Depth:       1       NONE       Sumple ID:       E       SWMP-IN         Sample Depth:       1       NONE       Sumple ID:       E       SWMP-IN         Sample Depth:       1       NONE       Sumple ID:       E       SWMP-IN         Sample Colur:       1       NONE       Sumple ID:       E       SWMP-IN         Odour:       1       NONE       Sumple ID:       E       SWMP-IN         Odour:       1       NONE       Turbidity:       Dup taken? / Dup ID:       E       SWMP IN         Odour:       NONE       NONE       Turbidity:       Turbidity:       IN       High         Odour:       NONE       NONE       NONE       NONE       NONE       NONE         pie Container and Preservation:       S'C       OverCost </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>J</td> <td></td> <td>Photo</td> <td>Location</td> <td></td> <td></td>						J		Photo	Location			
Dissolved Oxygen mg/L     Conductivity     pH     Redox Potential mV     Temperature C     Turbidity     Colour     Odour       45     2.16 mS     5.59     45-87     None     None     None       49     2.16 mS     5.59     45-87     None     None       appling Alecopho     Sample Both:	Dissolved Oxygen mg/L       Conductivity pH       pH Potential mV       Temperature c       Turbidity       Colour       Odour         345       3.16 mS       5.59       45-37       None       None         Sampling Method:       Sample Depth:       None       None       None         Sample Depth:       1 m.       Dup taken? / Dup to:       Sumple to:       E SwMP-IN         Sample Depth:       1 m.       Dup taken? / Dup to:       E SwMP-IN         Time Sampled:       9:45       Turbidity:       Dup taken? / Dup to:       E SwMP-IN         Sample Occur:       U cor       Odour:       Dup taken? / Dup to:       E SwMP. Dup         mple Appearance:       Colour:       None       Turbidity:       Turbidity:       Turbidity:       Dup taken? / Dup to:         mple Container and Preservation:       Somperature:       S'C       OverCrist       Turbidity:       Dup taken?       Precipitation:         SetPVATIONS:       Somperature:       S'C       OverCrist       Turbidity:       Conduction:       Precipitation:       Precipitation:         properature:       S'C       OverCrist       Some       Precipitation of past 24 / 48 hts:       Precipitation of past 24 / 48 hts:       Precipitation of past 24 / 48 hts:       Precipitation of past	MPL	NG PARAL	ETER	an an an		-		والمراث وفلور التركر كر				
Image:     Colour     Odour       mg/L     mS or µS     pH Units     mV     *C     Turbidity     Colour     Odour       45     2.1L mS     5.59     45.87     None.     None.     None.       IPUNG RECORD       Sample Depth:     *1.0.       Sample Depth:     *1.0.       Time Sampled:     9:45     0up taken? / Dup ID:     £ SW MP - IN       Dup taken? / Dup ID:     £ SW MP - IN     Dup taken? / Dup ID:     £ SW MP - IN	Inter     Corpornial     Potential     Potential     Turbidity     Colour     Odour       145     2.16 mS 6.59     145-37     None.     None.     None.       Sample Depth:     1 M.     1.60     None.     None.     None.       Sample Depth:     1 M.     1 M.     Dup taken? / Dup ID:     Sample ID:     Supple:       Time Sampled:     9 ! 45     1 M.     Dup taken? / Dup ID:     Supple:     Supple:       Time Sampled:     9 ! 45     1 M.     Dup taken? / Dup ID:     Supple:     Supple:       reple Appearance:     0 dour:     None.     Turbidity:     Turbidity:     Medium / High       Odour:     None.     Sort     Turbidity:     Medium / High       Odour:     None.     Sort     Turbidity:     Medium / High       SERIVATIONE     State:     State:     Sort     Sort		Dissolved	Contraction of the second second		Redox	Terret			1	N		
45     2.16 mS     6.59     45.87     1     None.     None       IPUNG RECORD     Sample RECORD     Sample ID:     £ Swmpl-1N     Dup taken? / Dup ID:     £ Swmpl-1N       Sample Depth:       Dup taken? / Dup ID:     £ Swmpl-Nop       Time Sampled:     9:95      Dup taken? / Dup ID:     £ Swmpl-Nop       ple Appearance:     Colour:      Turbidity:     Cone / Medium / High	245       2.16 mS       6.5 mg/line       45-8 F       1       None       None         Sample RECORD       Sample RECORD       Sample RECORD       Sample RECORD       Sample RECORD         Sample Depth:	Time						Turbidity	Colour		Ode	our	
IPUNO RECORD       Sampling Method:     Sampling Polle.       Sample Depth:     M.       Time Sampled:     9:45       Dip taken? / Dup ID:     E SWMP-IN       Dup taken? / Dup ID:     E SWMP-OVp       Time Sampled:     9:45       Dip taken?     Turbidity:       Colour:     Vonc.	MPUND ALECOPID       Sampling Method:     Sampling Polle.       Sample Depth:     "1 M.       Time Sampled:     9:45       Turbidity:     Medium / High       Odour:     None.       Turbidity:     Medium / High	204											
Sampling Method:       Sampling Polle         Sample Depth:       "Im."         Time Sampled:       9:45         Die Appearance:       Colour:         Colour:       Nonc-	ampling Method: <u>Sampling Pole</u> . Sample Depth: <u>"1m.</u> Time Sampled: <u>9!45</u> Die Appearance: Colour: <u>Licar</u> Odour: <u>Nonc</u> . Ne Container and Preservation: <b>ERVATIONES</b> ther Conditions: <u>Temperature: <u>S'c overcast</u> Current Precipitation: <u>None</u> se: <u>Pumping - controlled discharge - at time of scoupling</u>. <u>Pord de</u></u>	17		A VI A W D	5.57		7.66	1	None .		None		
De Appearance:     Colour:     Colour:     Colour:     Manual High       Odour:     Nancol	nple Appearance: LICGY Turbidity: Low / Medium / High Odour: NOAC- nple Container and Preservation: SERIVATIONS ather Conditions: S'C OVERCAST Current Precipitation: NOAE Precipitation of past 24 / 48 hrs: ptes:					. <u></u> .	•	Dup tak					
Colour: <u>Venc</u> Odour: <u>Nenc</u>	Colour:	Tim	e Sampled:	4:4	5						8		
	SERVATIONS   ather Conditions:   Temperature:   5°c   Overcast   Current Precipitation:   NODE   Precipitation of past 24 / 48 hrs: ptes: Pumping - controlled discharge - at hme of sampling - Pood de	nple Ap							Turbidity: Low	/ Medium	1 / High		
ble Container and Preservation:	SERVATIONS ather Conditions: Temperature: <u>5°C OVERCOST</u> Current Precipitation: <u>NONE</u> Precipitation of past 24 / 48 hrs: precipitation of past 24 hrs: prec		Odour:_	<u>N</u>	one-								
	nther Conditions: Temperature: <u>S'C OVERCAST</u> Current Precipitation: <u>NODE</u> Precipitation of past 24 / 48 hrs: Les: <u>Pumping - controlled discharge - at home of scoupling</u> . <u>Pood de</u>	pie Co	intainer and	Preservation:					9				
	ather Conditions: Temperature: <u>5°C OVECCAST</u> Current Precipitation: <u>NODE</u> Precipitation of past 24 / 48 hrs: tes: <u>Pumping controlled discharge of hms of scoupling</u> . Pool de												
	ther Conditions: Temperature: <u>5°C Overcast</u> Current Precipitation: <u>NODE</u> recipitation of past 24/48 hrs: es: <u>Pumping - conholled discharge at home of scoupling</u> . <u>Pood de</u>												
	ather Conditions: Temperature: <u>5°C</u> <u>OVECCAST</u> Current Precipitation: <u>NOAE</u> Precipitation of past 24/48 hrs: ptes: <u>Pumping - controlled</u> <u>Alscharge - at hms of sampling - Pood de</u>												
	Temperature: <u>COVERCUST</u> Current Precipitation: <u>NOAC</u> Precipitation of past 24 / 48 hrs: otes: <u>Pumping - controlled discharge - at hms of sampling - Poad de</u>	<b>ERVA</b>	TIONS								177,24,7,76		
IRVATIONS	Current Precipitation: <u>NOAC</u> Precipitation of past 24/48 hrs: pres: <u>Pumping - controlled discharge - at hms of sampling - Pood de</u>	ather C		and the second states to and	5.	<u>ی و شارا می اواند. از است</u>			6 million and a star and		de lana di ma	الله والمحاطمة الم	
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Project Nember: 12 - 1151-0155 Cliet: Collactia       Date: April 8 2013- Sempled By: DevDO, JESSICA         Site Location: Classington       Sempled By: DevDO, JESSICA         Site Location: Classington       Location B E - SWIP- AUT         Stream Witch (m)       Location B E - SWIP- AUT         Stream Witch (m)       Stream Witch (m)         Stream Witch (m)       Philos (Stream (m))         Stream Witch (m)       Stream (m)         Stream (m)       Stream (m) <th>PROJE</th> <th>CT INFORM</th> <th>LATION</th> <th>ومحمد مراجع میرد. بر راجعین آ<u>ش م</u>یده</th> <th>a state and a second</th> <th></th> <th>د میں بینی در اور میں اور دیکھیل میں م</th> <th></th> <th></th> <th>Щ.</th>	PROJE	CT INFORM	LATION	ومحمد مراجع میرد. بر راجعین آ <u>ش م</u> یده	a state and a second		د میں بینی در اور میں اور دیکھیل میں م			Щ.
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Stree MATA         Image: Ima								Sampled By: De	von, Jessica	-
Image: Number Deph at Starf Gauge (m)         Strayed reference point         Water Deph at Starf Gauge (m)         Strayen Width (m)         Bisgram       Vee (N)         Flow Rase       dum	1	Site Location	<u></u>	gron_	-					
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Time       Dissolved Corgen       Conductivity       pH       Pederatial Potential       Temperature 'C       Turbidity       Colour       Odour         10:36:1,       2.14:a.5       7.08       7.7°C       1.16get       Clccr       None         Sample Dis 6: 5 W MP-001         Time Sample ID: 6: 5 W MP-001         Sample Appearance:         Colour       Colour         Colour       Turbidity: Low Medlum / High         Output taken? / Dup ID: 6: 5 W MP-001         Sample Appearance:         Colour       Colour         Colour         Turbidity: Low Medlum / High         Colour:         Sample Container and Preservation:         Temperature:         Second container and Preservation:         Temperature:         Second container and Preservation:         Temperature:         Second containe				1 10000	<u> </u>	rp y c		Photo Locatic	<u></u>	11
Time     Oxygen     Conductivity     pH     Potential     Temperature     Turbidity     Colour     Odour       0130-p,     2.14AS     7.08     7.7°C - 1.16grt     (CCA     NOVL -       Sample Depth     9.64     9.7°C - 1.16grt     (CCA     NOVL -       Sample Depth     9.64     9.000     9.600     9.600       Sample Depth     9.64     9.7°C - 1.16grt     0.000       Sample Depth     9.64     9.000     9.000       Sample Depth     9.64     9.000     9.000       Sample Appearance:     0.130 em     9.000     9.000       Colour:     0.130 em     9.000     9.000       Sample Container and Preservation:     9.000     9.000     9.000       Sample Container and Preservation:     9.000     9.000       Temperature:     8.000     9.000       Vesther Conditions:     9.000     9.000       Temperature:     8.000     9.000       Precipitation of past 24 / 48 hrs:     9.000     9.000	SAMPU	NG PARAL	ETER	to a star			4			
mgr.     mS or µS     pH Units     mV     rc     Marking     Cooler       10:35 µ,     2.14 AS     1.08     7.7 C - 1.16 grt     Clock     Norle -       Sample Depth:     2.04     2.09     7.7 C - 1.16 grt     Clock     Norle -       Sample Depth:     9.64     Sample ID: E Swith - 0.01     Sample ID: E Swith - 0.01       Sample Appearance:     0.000     Dup taken? / Dup ID: E Swith - 0.01       Colour:	Time		Conductivity	рH		Temperature			I share a start of the start	1
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	ma/L		pH pH Linite	Redox Potential	Temperature	Turbidity	Colour	Odour
0.01	mg/L	mS or µS	pH Units		Temperature °C '7.7°C			
<b>AMPUI</b> Sampli	<b>IG RECOR</b> ing Method:	mS or μS D · 6 5 mS		Potential	°C	0 35 <sub>87</sub> +	Clear Semple ID: W SW	None_ MP-IN
AMPUI Sampli San	IG RECOR	mS or μS D · 6 5 mS	pH Units	Potentiał mV	•c `7.7°C.	0 35 <sub>87</sub> +	Clear	None_ MP-IN
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Project Nu	mber: ) 2 - \ \ (	51-015			سرد شمه حد	Date:	April 84,201
	lient: COVQ		-			Sampled By: Devo	n, Jessica
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Time Oxyge	en Conductivity L mS or μS	pH pH Units	Redox Potentiał mV	Temperature °C	Turbidity	Colour	Odour
):30er	2-15m5	6.98		7.8°C	(15ppt	Clear	None
	1.78.05	7.070		7.5°C	0.9600+	Cloudy Brin	· <b>A</b> .
MPLING REC Sampling Meth		onel an	<u> ()</u> 43-54 (2)		4.6	and the second	and the second second
Sample Dep		<u>ener gr</u>	ala ·	-		Sample ID: <u> </u>	
Time Sampl		Dan.		•	Dup take		
nple Appearanc Colo	ce:						um / Wish 13+5
Odo	xur:						um / High13+5 cd-High-2n4
mple Container a	and Preservation:					Inte	a-mzn-2"
	<u> </u>					~	
		<u> </u>					
··=							
······································					·		
SERVATIONS					n jeur a		
		6°	Č eve	ne li		· · · · · · · · · · · · · · · · · · ·	
eather Condition	is: Temperature:_ tent Precipitation:_	6° Nor		rast			
	Temperature:			rast			
eather Condition Cum Precipitation of	Temperature: _	Nor	në .	rast			
eather Condition Cum Precipitation of	Temperature: _ Ent Precipitation: _ past 24 / 48 hrs: _	Nor	në .		- Aver (	louch bour	colar
eather Condition	Temperature: _ Ent Precipitation: _ past 24 / 48 hrs: _	Nor	në .		- Aver	iloucy boing	colar

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PREARED INFORMATION         Protect Number: 12-1151-0155         Client:		يتنفيت المنعد		بر مند العرب بيوس		-			Golder
SHE DATA         Image: Image		oject Numbe Clien	12-115 1: Covan	51-015 Ita				Date: A	pril 8,2013
Implicit 10:456-0         Surveyed reference point         Water Depth at Staft Gauge (m) ~ 3*         Stream Width (m) @ ~ 0.55         Photos Execution till         Photos Execution till         The Depth of Conductively pH I Potos Taken (model of model of m			" <u>- CIORM</u>	gron_	-				
Water Depth at Staff Gauge (m)       ~ 34         Stream Width (m)       S ~ 0.5 m.         Staguent       So ~ 0.5 m.         Plow Rate       So ~ 0.5 m.         Proto I coaligon       Photos Taken         Protos Taken       Year No (e         Photos Taken       Year No (e         Photos Taken       Year No (e         Photos Conductivity       pH         Mathematical Stream       Potential         myLing PARAMIETER       Colour         Origin (Conductivity)       pH         Potential       Temperature         myLing Parameter       Colour         Object RECORD       Sample Repth         Sample Depth:       -34         Time Sampled:       101456m         Sample Depth:       -34         Time Sampled:       101456m         Odour:       NC Q         mple Appearance:       Clear both Slight brough Ninglington (Medium / High         Odour:       NC Q         mple Conditione:       Year         Serevalue:       Year         Colour:       NC Q         Colour:       NC Q         Colour:       NC Q				10.93	San			Location ID S	ω. <u>.</u>
Stream Width (m)       Stream Width (m)       Stream Width (m)       Stream Width (m)         Stream Width (m)       Stream Width (m)       Stream Width (m)       Stream Width (m)       Stream Width (m)         Bissolved       Flow Rate       Photo Location       Photo Location         AMPLING PARAMETER       Flow Rate       Turbidity       Colour       Odour         AMPLING PARAMETER       Conductivity       pH       Redox       Turbidity       Colour       Odour         10       Dissolved       Conductivity       pH       Petential       Temparature       Turbidity       Colour       Odour         11       Dissolved       Conductivity       pH       Petential       Temparature       Turbidity       Colour       Odour         12       1.96       7.16       6.72       1.0574       Cloor to Sing 4       Nong 4         Sample Depth:				<b> </b>		1			
Stagnart       Stagnart       Stagnart       Stagnart       Protoc Taken       Protoc Taken         Riow Rate       Photos Taken       Protos Taken       Protos Taken       Protos Taken         AMPLUNG PARAMETER       Time       Origon       Conductivity       pH       Predox       Protos Taken       Protos Taken         Time       Dissolved       Conductivity       pH       Predox       Temparature       Turbidity       Colour       Odour         Dissolved       Conductivity       pH       Predox       Temparature       Turbidity       Colour       Odour         Dissolved       Conductivity       pH       Predox       Temparature       Turbidity       Colour       Odour         Dissolved       Sample Depit:	Wa					4	12	Logger Numbe	r
Flow Rate       Photo Location         AMPLING PARAMETER       Time Dissolved Conductivity pH Plants Temperature Turbidity Colour Odour       Odour         Time Dissolved Information Temperature Turbidity Colour Dissolved Norgen Turbidity Colour High Odour: No ne Turbidity Colour Mingen Turbidity Colour High Odour: No ne Turbidity Colour Mingen Turbidity Colour High Odour: No ne Temperature: M 9 °C         Serret Conditions:       Temperature: M 9 °C         Temperature: M 9 °C       Current Precipitation: M Dis (21/48 hrs:         Precipitation of past 24 / 48 hrs:       M 9 °C								Loger Download Time	
AMERIANO PARAMIETER         Time       Disectived       Conductivity       pH       Predox       Temporature       Turbidity       Colour       Odour         20.4560       1.965       7.16       6.7°C       1.0574       Clear to slight       Nave         20.4560       1.965       7.16       6.7°C       1.0574       Clear to slight       Nave         AMPLAND RECORD       Sample Depth:	<u> </u>	:				lowton	۵	Photos Taken	Yes/ No (#
Dissolved       Conductivity       pH       Redox       Temporature       Turbidity       Colour       Odour         Mage       Masser       Masser       Potential       Temporature       Turbidity       Colour       Odour         Dissolved       I.96       7.16       6.7°C       I.0574       Cloor to slight       None.         AMPORT RECORD       Sample RECORD       Sample RECORD       Sample RECORD       Sample RECORD       Sample RECORD         Sample Depth:      3H       Dup taken? / Dup ID:       Swith       Dup         Time Sampled:       10:4564       Slight bootson kingle       Turbidity: Low       Medium / High         Odour:       None.       None.       Super table for the sight bootson kingle       Turbidity: Low       Medium / High         Odour:       None.       None.       Super table for the sight bootson kingle       Turbidity: Low       Medium / High         Odour:       None.       None.       Super table for the sight bootson kingle       Turbidity: Low       Medium / High         Odour:       None.		<u> </u>		<u> </u>		]		Photo Location	
Time       Dissolved Corductivity       pH pH Units       Pedential mV       Temperature c       Turbidity       Colour       Odour         21454m       1.945       7.16       6.7 °C       1.05 mt       Class to slight       Nong         21454m       1.945       7.16       6.7 °C       1.05 mt       Class to slight       Nong         21454m       1.945       7.16       6.7 °C       1.05 mt       Class to slight       Nong         21454m       1.945       7.16       6.7 °C       1.05 mt       Class to slight       Nong         Sample Deptit:       -3 th       Dup taken? / Dup ID:       5 W 1       Dup         Sample Deptit:       -3 th       Dup taken? / Dup ID:       5 W 1       Dup         Colour:       Clear to \$ slight broughting!       Turbidity: (.ow) / Medium / High       Odour:       Nong         Odour:       Nong	AN PL	NG PARAL	ETER			-	1		-
AMPLNIS RECORD Sample Depth:	Time	Oxygen			Potential		Turbidity		Odour
AMPLNB AECORD Sampling Method:	) USI		1.96	7.16		6.7°C	1.05mt	Clear to, slight	Novi
Sampling Method:       By hard graph       Sample D:       Swill         Sample Deptit:       -3"       Dup taken? / Dup ID:       Swill         Time Sampled:       10:456m       Dup taken? / Dup ID:       Swill       Dup         mple Appearance:       Clear bot slight bouts of higg-       Turbidity: (.ow) / Medium / High         Odour:       No ne.       mple Container and Preservation:       Semperature:       ~9%         SERVATIONE       Temperature:       ~9%									L
Sample Depth: Time Sampled: Dup taken? / Dup ID: Dup ample Appearance: Clear bit slight brouchingf- Colour: Clear bit slight brouchingf- odour: None mple Container and Preservation: resther Conditions: resther Conditions: Current Precipitation: Precipitation of past 24 / 48 hrs:	AMPU	NG RECOR	D	1.1	1. 1. 1.	e far Len en	alter ye		
Time Sampled: 10:45em   Imple Appearance: Colour: Colour: No ne Odour: No ne mple Container and Preservation: SERVATIONS: eather Conditions: Temperature: Yealphitation: No ne No n	Sampi	ling Method:	<u>By had</u>	grap					
Introduce: Clear to to slight brown hinge- Colour: NO OR mple Container and Preservation: SERVATIONS eather Conditions: Mpace Current Precipitation: NpAC. Precipitation of past 24 / 48 hrs:			~3"				Dup take	an? / Dup ID: <u>SW</u>	1 Dup
Odour:	Tim	ne Sampled:	10:4	Sem					-
Odour:	imple A		Clear	· 104	slight	rownkny	¥-	Turbidity: Ow / Med	ireen é dálada
ISERVATIONS /eather Conditions: Temperature:9* Current Precipitation: Precipitation of past 24 / 48 hrs:		Odour:	None					TO BOARD PROVIDENT MICH	ion / high
SERVATIONS Veather Conditions: Temperature:9°C Current Precipitation: Precipitation of past 24 / 48 hrs:									
SERVATIONS Veather Conditions: Temperature:9°C Current Precipitation: Precipitation of past 24 / 48 hrs:	mple Ci	ontainer and	Preservation:						
SERVATIONS eather Conditions: Temperature:	mple Ci	ontainer and	Preservation:						15
eather Conditions: Temperature: Current Precipitation: Precipitation of past 24 / 48 hrs:	mple Co	ontainer and	Preservation:						8
eather Conditions: Temperature: Current Precipitation: Precipitation of past 24 / 48 hrs:	mple C	ontainer and	Preservation:						3
Temperature:       9         Current Precipitation:       Non C         Precipitation of past 24 / 48 hrs:			Preservation:						3
Current Precipitation: NDAC	ISERV	ATIONS .	Preservation:						
	ISERV	ATTONS		3 10 1		- 167 - 167			
votes: Origanic Sheen noted + small bib of debar.	ISERV	ATIONS Conditions:	Temperature:	~9°C		297 17			
J	<b>iserv</b> /exther (	ATTONS Conditions:	Temperature:	~9°C		265 157	- ) - 200		
	iserv, /eather ( Precip	ATIONS Conditions: Current	Temperature: Precipitation: ti 24 / 48 hrs:	~9°C Nons			4 bib o	f debar.	
	<b>iserv</b> /exther (	ATIONS Conditions: Current	Temperature: Precipitation: ti 24 / 48 hrs:	~9°C Nons			L bib c	f debar.	

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PROJE	CT INFOR	MATION	111					Associates
Pn	oject Numbe	r. 12-115	1-015	5	والمستشيرية والإسسا مواصد	مىروا بىلىڭ بەخمە		pril 8 2013
		t: Covan					Sampled By:	von Jessica
		<u>Clarin</u>	gton					
itte D/	ATA					an a		ریون ارب ایم مدر مرجع کرد. مربقا ارب ایم مدر مرجع کرد کرد کرد
	Surveyed	Time	11 av	<u> </u>			Location ID S	w2
Wat	ter Depth at :	Staff Gauge (m)	1		1	ų.	Logger Number	
	St	ream Width (m)	2-3"	~ 0.29	im		Loger Download Time	
		Stagnant	Yes	1 NO			Photos Taken	Yes/ No (#
		Flow Rate	very lo	w .	]		Photo Location	
ampli	NG PARAL	ETER .	1		-	2		
Time	Dissolved Oxygen mg/L	Conductivity mS or µS	pH pH Units	Redox Potential mV	Temperature °C	Turbidity	Colour	Odour
an		13m5	7.36		6.7C	0.93/1+	light orginiz	None
	·				L		(relatively dea	<i>d</i>
UPU	ીગ્રીફેઓ	D		1.2.2.2		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
Sampl	ling Method:	Byha	<u>rd gral</u>				sample ID: Sw	2
Sa	mple Depth:	0				Dup tak	en? / Dup ID: Sw	
Tim	e Sampled:				-	•		
mple Aj	ppearance: Colour:						Turbidity: Low / Medi	um / High
	Odour:_						.0	
mple Co	ontainer and	Preservation:						
-								F 2
				•••••••				
						· · · · · · · · · · · · · · · · · · ·		
ecov	TIONS	ومحرب والمحر وعاهدا			- Charles	-		
2.11.1.25		a den a del ma	134-11- <u>11-1</u>	مود المعترمت				ده و مساومی کار در می و این دونوستگو در سر در استان استان همینوند.
	-	Temperature:	~ 8°C	· O V CSC	ast			
	Current	Precipitation:	<u> </u>	lone,				
Precipi	itation of pas	st 24 / 48 hrs:						
lotes:	Varu 1	asfla	1 -					
	Octor	a dila		ant				
	Uryan	nt cup/i	s pres	11.5				
			_					
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Pro	sting hills day and	MATION	1-015	5			مدمنيتي ورجيب كتحجم والمتحصين	April 8, 201
	Client	: Covan	ta	_				ven . Jessica
8	Site Location	<u>Clarin</u>	gton_	5				
it oʻ	ATA							
		Time	11:3	4	7		Location ID	w3
	Surveyed	reference point			]			<b>0</b>
Wat	er Depth at S	Staff Gauge (m)	»   ft			т. Т	Logger Numbe	ir.
	St	ream Width (m)	~2~	<u>1.</u>	4		Loger Download Time	9
	·	Stagnant	Yes	No			Photos Taken	Yes / No (#
		Flow Rate					Photo Location	
NPU	NG PARAN							
lime	Dissolved Oxygen mg/L	Conductivity	pH pH Units	Redox Potentiał mV	Temperature °C	Turbidity	Colour	Odour
		0.86	7.54		7.7	0.60	dear	None
		<u> </u>			<u></u>	OPT	L	1
MPL	NG RECOR	D						
Sampl	ing Method:	Sandi	NG QU	le .			Semple ID: Su	3
Sar	mple Depth:		<u> </u>		-	Dup tak	en?/Dup ID:SU	3=000
	mple Depth: e Sampled:				<b>.</b>	Dup tak	en? / Dup ID: <u>S</u> ເປ	3=000
Tim						Dup tak		
ារា	e Sampled:_				-	Dup tak		<u>3 лОцр</u> dium / High
Tim nple A;	e Sampled: pearance: Colour:_ Odour:_				-	Dup tak		
Tim mple A;	e Sampled: pearance: Colour:_ Odour:_	Preservation:			-	Dup tak		
Tim mple A;	e Sampled: pearance: Colour:_ Odour:_				-	Dup tak		
Tim mple Aş mple Cc	e Sampled: ppearance: Colour: Odour: ontainer and	Preservation:			-	Dup tak		
Tim nple A nple Cc	e Sampled: ppearance: Colour: Odour: ontainer and ATIONS	Preservation:					Turbidity: Low Me	
Tim nple Ar nple Cc	e Sampled: ppearance: Colour: Odour: ontainer and ATIONS Conditions:	Preservation:	8.	Overc	cust		Turbidity: Low Me	
Tim nple Ar nple Cc	e Sampled: ppearance: Colour: Odour: ontainer and ATIONS Conditions:	Preservation:	8.	Overc	cust		Turbidity: Low Me	
Tim mple A mple Co <b>SERV</b>	e Sampled: ppearance: Colour: Odour: ontainer and ATIONS Conditions: Current	Preservation:	8°(. Nore	OverC	cust		Turbidity: Low Me	
Tim mple A mple Co SERV/	e Sampled: ppearance: Colour: Odour: Odour: ontainer and ATIONS Conditions: Current Itation of pas	Preservation:	8°(· Nore	<u>OverC</u>	cust		Turbidity: Low Me	
Tim mple A mple Co SERV/ Precipi	e Sampled: ppearance: Colour: Odour: Odour: ontainer and ATIONS Conditions: Current Itation of pas	Preservation: Temperature: Precipitation: st 24 / 48 hrs:	8°(· Nore	<u>OverC</u>	cust		Turbidity: Low Me	
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		r 12-115 t Covan		2			Date: Sampled By:	Deve		8 201
	Site Location	" Clarin	gton	 -			Animag Dà.	UCYC	20-,	Jessica
ITE D	ATA								e e en er	
Time Surveyed reference point Water Depth at Staff Gauge (m)		1.04		X		Location ID	Sw4			
						Logger Number				
	Stream Width (m) Stagnant		Yes No		-		Loger Download Time Photos Taken		ne n Yes / No (#	
	· · ·	Flow Rate	Ling	<u>n</u>	1		Photo	Location		
AMPL	NG PARAL	ETER.		and a second		7. 		1.2.2.54		- مربعه التركم والترك
Time	Dissolved Oxygen mg/L	Conductivity	pH pH Units	Redox Potential mV	Temperature °C	Turbidity PO+	Colour			Odour
1:4	7	0.82	7.79		7.6	0.43	clean	r	N	sone.
AUPLI	NG RECOR	0				فللمنافق المتعادية			-	
	NG RECOR	the state of the second st	pline	2 00	0			Sual	and a state of the second	<u> </u>
Sampl	NG RECOR	the state of the second st	pline	) pol	l	Duo taka	Sample ID:	SW	4	والمستحمين متساليه والمشتمية
Sampi Sa	ling Method: mple Depth:	the state of the second st		) pol	l	Dup tak		SW	4	والمستحمين متساليه والمشتمية
Sampi Sai Tim	ling Method: mple Depth: e Sampled: ppearance:	Soum		<u>) pol</u>	L	Dup tak	Sample ID:	<u>Sw</u>	4	၂၂၀၉
Sampi Sai Tim	ling Method: mple Depth: e Sampled: ppsarance: Colour:	Soum		) pol	L	Dup tak	Sample ID:	<u>Sw</u>	4	၂၂၀၉
Sampi Sa Tim ample Aj	ing Method: mple Depth: es Sampled: ppearance: Colour: Odour:	Soum		) pol	L	Dup tak	Sample ID:	<u>Sw</u>	4	၂၂၀၉
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Sample Sau Tim ample A ample Co	ing Method: mple Depth: re Sampled: Depearance: Colour: Odour: Odour: Odour: Conditions:	Sam			ercas	Dup take	Sample ID:	<u>Sw</u>	4	၂၂၀၉
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Sample Sau Tim ample A ample Co <b>SSERV</b>	ing Method: mple Depth: re Sampled: Depearance: Colour: Odour: Odour: Odour: Conditions:	Source So				Dup taka	Sample ID:	<u>Sw</u>	4	၂၂၀၉
Sample Sau Tim ample A ample Co <b>SSERV</b>	ing Method: mple Depth: re Sampled: ppearance: Colour: Odour: Odour: Odour: Odour: Conditions:	Sam. Preservation: Temperature: Precipitation:	8°C 1101	<u>0</u> 0		Dup taka	Sample ID:	<u>Sw</u>	4	၂၂၀၉
Sample Sau Tim ample A ample Co ample C	ing Method: mple Depth: re Sampled: ppearance: Colour: Odour: Odour: Odour: Odour: Conditions:	Source So	8°C 1101	<u>0</u> 0		Dup taka	Sample ID:	<u>Sw</u>	4	၂၂၀၉

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