



Analytical Report

| | | | |
|-----------------|--|-----------------------------|---------------|
| Client: | Brian Moore (WTP) | Work Order Number: | 91718 |
| Company: | OCWA - SRF - Fauquier WTP | Date Order Received: | 10/20/09 |
| Address: | First Street @ Fourth Avenue, P.O. Box 160 Smooth Rock Falls, ON, P0L 2B0 | Regulation: | O.Reg. 170 |
| Phone: | (705) 338-4677 | PO #: | 18164 |
| Fax: | (705) 338-4586 | Project #: | Org. # 5312 |
| Email: | OCWA SRF (WTP) | DWS#: | 210000979 |
| | | Sampled By: | Marc Desbiens |

Analyses were performed on the following samples submitted with your order.

The results relate only to the items tested.

| Sample Name | Lab # | Matrix | Type | Comments | Date Collected | Time Collected |
|-------------|--------|---------------|-------|----------|----------------|----------------|
| F-1 POE | 254788 | Treated Water | Entry | | 10/19/09 | 10:30 |



The following instrumentation and reference methods were used for your sample(s)

| Method Name | Description | Reference |
|-------------------------|---|-----------------|
| Acid Ext. Water | Determination of Acid Extractables in Water by GC-MS Instrument group: Subcontracted | Mod. SW846-8270 |
| Anions (NO3+NO2) | Determination of Nitrate+Nitrite by Ion Chromatography Instrument group: Subcontracted | Mod. SW846-9056 |
| Carb | Determination of Carbamate Pesticides and Diuron in Water by HPLC Instrument group: Subcontracted | Mod. SW846-8318 |
| Diquat/Paraquat | Determination of Diquat and Paraquat in water by HPLC Instrument group: Subcontracted | EPA 549.1 |
| Glyphosate | Determination of Glyphosate in Water Instrument group: Subcontracted | Mod EPA 547.1 |
| ICPMS Water | Determination of Metals in Water by ICP/MS Instrument group: Subcontracted | Mod. SW846-6020 |
| KL-M9999 Receipt | Sample Examination and Sub Sampling Instrument group: | In House |
| Mercury CV Water | Determination of Mercury in Water by Cold Vapour Instrument group: Subcontracted | Mod. EPA 245.7 |
| OCPs Water | Determination of Organochlorine Pesticides in Water by GC/ECD Instrument group: Subcontracted | Mod. SW846-8081 |
| OPPest Water | Determination of Triazine Herbicides and Organophosphorus Pesticides in Water Instrument group: Subcontracted | Mod. SW846-8270 |
| PAH Water SIM | Determination of PAH in Water by GC/MS Instrument group: Subcontracted | Mod. SW846-8270 |
| PCBs Water | Determination of Polychlorinated Biphenyls in Water by GC/ECD Instrument group: Subcontracted | Mod. SW846-8080 |
| PhenoxyHerb | Determination of Phenoxy Acid Herbicides in Water by GC/ECD/ECD Instrument group: Subcontracted | Mod. SW846-8151 |
| Sched. 24 Aggregate Grp | Calculation of Schedule 24 Aggregate Parameters Instrument group: Subcontracted | In House |
| Sched. 24 Aggregate Grp | Calculation of Schedule 24 Aggregate Parameters Instrument group: Subcontracted | |
| VOC water | Determination of Volatile Organic Compounds in Water by P&T/GC/MS Instrument group: Subcontracted | Mod. EPA 624 |



This report has been approved by:

A handwritten signature in black ink, appearing to read 'J. Posthumus', is written over a light grey circular background.

Jonathan Posthumus, B.Sc.
Laboratory Director



Sample Data:

Sample Name: F-1 POE

Date: 10/19/09

Matrix: Treated Water

Lab #: 254788

| Acid Ext. Water | | | | |
|---------------------------|-------|--------|-------|----------------|
| Parameter | MDL | Result | Units | QAQCID |
| 2,3,4,6-Tetrachlorophenol | 0.051 | <0.051 | ug/L | 20091026.R41Ax |
| 2,4,6-Trichlorophenol | 0.051 | <0.051 | ug/L | 20091026.R41Ax |
| 2,4-Dichlorophenol | 0.051 | <0.051 | ug/L | 20091026.R41Ax |
| Pentachlorophenol | 0.051 | <0.051 | ug/L | 20091026.R41Ax |

| Anions (NO3+NO2) | | | | |
|------------------|------|--------|-------|--------------|
| Parameter | MDL | Result | Units | QAQCID |
| Nitrate (as N) | 0.1 | <0.1 | mg/L | 20091023.R5D |
| Nitrite (as N) | 0.05 | <0.05 | mg/L | 20091023.R5D |
| NO3+NO2 (as N) | 0.1 | <0.1 | mg/L | 20091023.R5D |

| Carb | | | | |
|------------|------|--------|-------|----------------|
| Parameter | MDL | Result | Units | QAQCID |
| Aldicarb | 0.57 | <0.57 | ug/L | 20091022.CarbW |
| Bendiocarb | 1.1 | <1.1 | ug/L | 20091022.CarbW |
| Carbaryl | 1.1 | <1.1 | ug/L | 20091022.CarbW |
| Carbofuran | 1.1 | <1.1 | ug/L | 20091022.CarbW |
| Diuron | 5.7 | <5.7 | ug/L | 20091022.CarbW |
| Temephos | 16 | <16 | ug/L | 20091022.CarbW |

| Diquat/Paraquat | | | | |
|-----------------|-----|--------|-------|---------------|
| Parameter | MDL | Result | Units | QAQCID |
| Diquat | 7 | <7 | ug/L | 20091021.R70A |
| Paraquat | 1 | <1 | ug/L | 20091021.R70A |

| Glyphosate | | | | |
|------------|-----|--------|-------|---------------|
| Parameter | MDL | Result | Units | QAQCID |
| Glyphosate | 20 | <20 | ug/L | 20091027.R82A |

| ICPMS Water | | | | |
|-------------|-----|--------|-------|----------------|
| Parameter | MDL | Result | Units | QAQCID |
| Antimony | 0.5 | <0.5 | ug/L | 20091022.R13B2 |
| Arsenic | 1 | <1 | ug/L | 20091022.R13B2 |
| Barium | 1 | 6.1 | ug/L | 20091022.R13B2 |
| Boron | 2 | <2 | ug/L | 20091022.R13B2 |
| Cadmium | 0.1 | <0.1 | ug/L | 20091022.R13B2 |
| Chromium | 1 | <1 | ug/L | 20091022.R13B2 |
| Selenium | 1 | <1 | ug/L | 20091022.R13B2 |
| Uranium | 1 | <1 | ug/L | 20091022.R13B2 |

| Mercury CV Water | | | | |
|------------------|------|--------|-------|--------------|
| Parameter | MDL | Result | Units | QAQCID |
| Mercury | 0.01 | <0.01 | ug/L | 20091023.R8A |
| Mercury (Dup) | 0.01 | <0.01 | ug/L | 20091023.R8A |

| OCPs Water | | | | |
|------------|---------|----------|-------|-----------------|
| Parameter | MDL | Result | Units | QAQCID |
| 4,4'-DDD | 0.00087 | <0.00087 | ug/L | 20091029.R19ocp |



Accuracy Environmental Laboratories Ltd.

OCWA - SRF - Fauquier WTP

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Sample Name: F-1 POE

Date: 10/19/09

Matrix: Treated Water

Lab #: 254788

| OCPs Water | | | | |
|--------------------------|---------|----------|-------|-----------------|
| Parameter | MDL | Result | Units | QAQCID |
| 4,4'-DDD (Dup) | 0.00099 | <0.00099 | ug/L | 20091029.R19ocp |
| 4,4'-DDE | 0.00029 | <0.00029 | ug/L | 20091029.R19ocp |
| 4,4'-DDE (Dup) | 0.00033 | <0.00033 | ug/L | 20091029.R19ocp |
| 4,4'-DDT | 0.00044 | <0.00044 | ug/L | 20091029.R19ocp |
| 4,4'-DDT (Dup) | 0.00049 | <0.00049 | ug/L | 20091029.R19ocp |
| Aldrin | 0.00044 | <0.00044 | ug/L | 20091029.R19ocp |
| Aldrin (Dup) | 0.00049 | <0.00049 | ug/L | 20091029.R19ocp |
| Dieldrin | 0.0012 | <0.0012 | ug/L | 20091029.R19ocp |
| Dieldrin (Dup) | 0.0013 | <0.0013 | ug/L | 20091029.R19ocp |
| Heptachlor | 0.00058 | <0.00058 | ug/L | 20091029.R19ocp |
| Heptachlor (Dup) | 0.00066 | <0.00066 | ug/L | 20091029.R19ocp |
| Heptachlor epoxide | 0.00058 | <0.00058 | ug/L | 20091029.R19ocp |
| Heptachlor epoxide (Dup) | 0.00066 | <0.00066 | ug/L | 20091029.R19ocp |
| Methoxychlor | 0.0012 | <0.0012 | ug/L | 20091029.R19ocp |
| Methoxychlor (Dup) | 0.0013 | <0.0013 | ug/L | 20091029.R19ocp |
| o,p-DDT | 0.00029 | <0.00029 | ug/L | 20091029.R19ocp |
| o,p-DDT (Dup) | 0.00033 | <0.00033 | ug/L | 20091029.R19ocp |
| Oxychlorane | 0.00073 | <0.00073 | ug/L | 20091029.R19ocp |
| Oxychlorane (Dup) | 0.00082 | <0.00082 | ug/L | 20091029.R19ocp |
| α-Chlordane | 0.00044 | <0.00044 | ug/L | 20091029.R19ocp |
| α-Chlordane (Dup) | 0.00049 | <0.00049 | ug/L | 20091029.R19ocp |
| γ-BHC (Lindane) | 0.00044 | <0.00044 | ug/L | 20091029.R19ocp |
| γ-BHC (Lindane) (Dup) | 0.00049 | <0.00049 | ug/L | 20091029.R19ocp |
| γ-Chlordane | 0.00058 | <0.00058 | ug/L | 20091029.R19ocp |
| γ-Chlordane (Dup) | 0.00066 | <0.00066 | ug/L | 20091029.R19ocp |

| OPPest Water | | | | |
|---------------------------|------|--------|-------|-----------------|
| Parameter | MDL | Result | Units | QAQCID |
| Alachlor | 0.47 | <0.47 | ug/L | 20091026.R18opp |
| Atrazine | 0.47 | <0.47 | ug/L | 20091026.R18opp |
| Azinphos-Methyl (Guthion) | 0.35 | <0.35 | ug/L | 20091026.R18opp |
| Chlorpyrifos (Dursban) | 0.35 | <0.35 | ug/L | 20091026.R18opp |
| Cyanazine (Bladex) | 0.35 | <0.35 | ug/L | 20091026.R18opp |
| Desethyl Atrazine | 0.58 | <0.58 | ug/L | 20091026.R18opp |
| Diazinon | 0.35 | <0.35 | ug/L | 20091026.R18opp |
| Dimethoate | 0.35 | <0.35 | ug/L | 20091026.R18opp |
| Malathion | 0.35 | <0.35 | ug/L | 20091026.R18opp |
| Metolachlor | 0.23 | <0.23 | ug/L | 20091026.R18opp |
| Metribuzin (Sencor) | 0.23 | <0.23 | ug/L | 20091026.R18opp |
| Parathion | 0.23 | <0.23 | ug/L | 20091026.R18opp |
| Phorate | 0.35 | <0.35 | ug/L | 20091026.R18opp |
| Prometryne | 0.23 | <0.23 | ug/L | 20091026.R18opp |
| Simazine | 0.35 | <0.35 | ug/L | 20091026.R18opp |
| Terbufos | 0.23 | <0.23 | ug/L | 20091026.R18opp |
| Triallate | 0.23 | <0.23 | ug/L | 20091026.R18opp |
| Trifluralin | 0.23 | <0.23 | ug/L | 20091026.R18opp |



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OCWA - SRF - Fauquier WTP

Work Order: 91718

Sample Name: F-1 POE

Date: 10/19/09

Matrix: Treated Water

Lab #: 254788

| PAH Water SIM | | | | |
|----------------|--------|---------|-------|-----------------|
| Parameter | MDL | Result | Units | QAQCID |
| Benzo(a)pyrene | 0.0058 | <0.0058 | ug/L | 20091026.R41pw2 |

| PCBs Water | | | | |
|----------------------------|--------|---------|-------|------------------|
| Parameter | MDL | Result | Units | QAQCID |
| Decachlorobiphenyl (Surr.) | N/A | 71 | % Rec | 20091026.R19pcb2 |
| Total PCBs | 0.0036 | <0.0036 | ug/L | 20091026.R19pcb2 |

| PhenoxyHerb | | | | |
|------------------------------------|-------|--------|-------|---------------|
| Parameter | MDL | Result | Units | QAQCID |
| 2,4,5-T | 0.047 | <0.047 | ug/L | 20091030.R56A |
| 2,4-D | 0.19 | <0.19 | ug/L | 20091030.R56A |
| Bromoxynil | 0.47 | <0.47 | ug/L | 20091030.R56A |
| Dicamba | 0.19 | <0.19 | ug/L | 20091030.R56A |
| Dichlorophenyl Acetic Acid (Surr.) | N/A | 79 | % Rec | 20091030.R56A |
| Diclofop Methyl | 0.19 | <0.19 | ug/L | 20091030.R56A |
| Dinoseb | 0.047 | <0.047 | ug/L | 20091030.R56A |
| Picloram | 0.047 | <0.047 | ug/L | 20091030.R56A |

| Sched. 24 Aggregate Grp 1 | | | | |
|--------------------------------------|-------|--------|-------|----------------|
| Parameter | MDL | Result | Units | QAQCID |
| Atrazine + N-dealkylated metabolites | 0.9 | <0.9 | ug/L | 20091102.R99sc |
| Chlordane (Total) | 0.004 | <0.004 | ug/L | 20091102.R99sc |
| DDT + Metabolites | 0.005 | <0.005 | ug/L | 20091102.R99sc |

| Sched. 24 Aggregate Grp 2 | | | | |
|---------------------------------|-------|--------|-------|----------------|
| Parameter | MDL | Result | Units | QAQCID |
| Aldrin + Dieldrin | 0.004 | <0.004 | ug/L | 20091102.R99sc |
| Heptachlor + Heptachlor Epoxide | 0.004 | <0.004 | ug/L | 20091102.R99sc |

| VOC water | | | | |
|---------------------------------|------|--------|-------|----------------|
| Parameter | MDL | Result | Units | QAQCID |
| 1,1-Dichloroethylene | 0.25 | <0.25 | ug/L | 20091021.R14vw |
| 1,2-Dichlorobenzene | 0.25 | <0.25 | ug/L | 20091021.R14vw |
| 1,2-Dichloroethane | 0.25 | <0.25 | ug/L | 20091021.R14vw |
| 1,4-Dichlorobenzene | 0.25 | <0.25 | ug/L | 20091021.R14vw |
| 1-Bromo-4-fluorobenzene (Surr.) | N/A | 88 | % Rec | 20091021.R14vw |
| Benzene | 0.25 | <0.25 | ug/L | 20091021.R14vw |
| Carbon tetrachloride | 0.25 | <0.25 | ug/L | 20091021.R14vw |
| Chlorobenzene | 0.25 | <0.25 | ug/L | 20091021.R14vw |
| Dichloromethane | 0.25 | <0.25 | ug/L | 20091021.R14vw |
| Tetrachloroethylene | 0.25 | <0.25 | ug/L | 20091021.R14vw |
| Toluene-d8 (Surr.) | N/A | 74 | % Rec | 20091021.R14vw |
| Trichloroethylene | 0.25 | <0.25 | ug/L | 20091021.R14vw |
| Vinylchloride | 0.25 | <0.25 | ug/L | 20091021.R14vw |



MDL Method detection limit or minimum reporting limit.
% Rec Surrogate compounds are added to the sample in some cases and the recovery is reported as a percent recovered.
QAQCID This is a unique reference to the quality control data set used to generate the reported value.
Data reported for organic analysis in soil samples are corrected for moisture content
Matrix If the matrix is a leachate, the sample was extracted according to regulation 558.
INT Interferences
TNTC Too numerous to count
ND Not detected

All tests method names beginning with the letter K were performed by Accuracy Environmental Laboratories Ltd. All other methods were subcontracted.