



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H08100396-015
Client Sample ID: T2/YBA-10-(0-6")

Report Date: 12/29/08
Collection Date: 10/24/08 17:00
Date Received: 10/28/08
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.5	s.u.		0.1		ASAM10-3.2	12/08/08 07:34 / sah
Conductivity, sat. paste	0.63	mmhos/cm		0.01		ASA10-3	12/09/08 09:32 / sah
Saturation	48.6	%		0.1		USDA27a	12/08/08 08:08 / wj
Calcium, sat. paste	3.82	meq/l		0.05		SW6010B	12/11/08 10:11 / sld
Magnesium, sat. paste	1.53	meq/l		0.08		SW6010B	12/11/08 10:11 / sld
Sodium, sat. paste	1.54	meq/l		0.04		SW6010B	12/11/08 10:11 / sld
Sodium Adsorption Ratio (SAR)	0.94	unitless		0.01		Calculation	12/16/08 11:14 / wj
Bicarbonate, sat. paste	6.36	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	14	%		1		ASA15-5	12/10/08 15:07 / wj
Silt	56	%		1		ASA15-5	12/10/08 15:07 / wj
Clay	30	%		1		ASA15-5	12/10/08 15:07 / wj
Texture	SiCL	unitless				ASA15-5	12/10/08 15:07 / wj
CHEMICAL CHARACTERISTICS							
Potassium, NH4OAc Extractable	166	mg/kg		1		ASA13-3	12/12/08 13:30 / sld
Cation Exchange Capacity	28.2	meq/100g		0.09		SW6010B	12/11/08 19:00 / sld
Organic Matter	2.38	%		0.02		ASA29-3	12/12/08 13:29 / sah
Lime as CaCO3	6.6	%		0.1		USDA23c	12/11/08 00:00 / wj
Phosphorus	13	mg/kg		0.1		ASA24-5	12/19/08 15:33 / stp
Nitrate as N, KCL Extract	37	mg/kg		1.0		ASA38-3	12/19/08 15:27 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.55	meq/100g		0.0044		SW6010B	12/12/08 13:30 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.5	meq/100g		0.1		Calculation	12/16/08 11:14 / wj
Exchangeable Sodium Percentage	1.7	%		0.1		USDA20a	12/16/08 11:14 / wj
INORGANICS							
Fluoride	0.92	mg/kg		0.10		E300.0	12/12/08 04:49 / hm
Sulfate, sat. paste	0.71	meq/L		0.021		E300.0	12/12/08 04:49 / hm
Chloride, sat. paste	0.39	meq/L		0.028		E300.0	12/12/08 04:49 / hm
METALS, DTPA EXTRACTABLE							
Zinc	0.48	mg/kg	B	0.02		SW6010B	12/17/08 13:18 / sld
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.05		E270.3	12/09/08 10:06 / eau

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

B - The analyte was detected in the method blank.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



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Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H08100396-015
Client Sample ID: T2/YBA-10-(0-6")

Report Date: 12/29/08
Collection Date: 10/24/08 17:00
Date Received: 10/28/08
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, CACL2 EXTRACTABLE							
Barium	1.1	mg/kg		0.20		SW6010B	12/08/08 14:13 / sld
Boron	ND	mg/kg		0.20		SW6010B	12/08/08 14:13 / sld

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H08100396-016
Client Sample ID: T2/YBA-10-(6-12")

Report Date: 12/29/08
Collection Date: 10/24/08 17:00
Date Received: 10/28/08
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.6	s.u.		0.1		ASAM10-3.2	12/08/08 07:35 / sah
Conductivity, sat. paste	0.62	mmhos/cm		0.01		ASA10-3	12/09/08 09:33 / sah
Saturation	46.5	%		0.1		USDA27a	12/08/08 08:08 / wj
Calcium, sat. paste	2.67	meq/l		0.05		SW6010B	12/11/08 10:13 / sld
Magnesium, sat. paste	1.29	meq/l		0.08		SW6010B	12/11/08 10:13 / sld
Sodium, sat. paste	2.37	meq/l		0.04		SW6010B	12/11/08 10:13 / sld
Sodium Adsorption Ratio (SAR)	1.7	unitless		0.01		Calculation	12/16/08 11:14 / wj
Bicarbonate, sat. paste	4.37	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	76	%		1		ASA15-5	12/10/08 15:07 / wj
Silt	ND	%		1		ASA15-5	12/10/08 15:07 / wj
Clay	27	%		1		ASA15-5	12/10/08 15:07 / wj
Texture	SCL	unitless				ASA15-5	12/10/08 15:07 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	26.2	meq/100g		0.09		SW6010B	12/11/08 19:08 / sld
Lime as CaCO3	6.7	%		0.1		USDA23c	12/11/08 00:00 / wj
Nitrate as N, KCL Extract	16	mg/kg		1.0		ASA38-3	12/19/08 14:13 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.85	meq/100g		0.0044		SW6010B	12/12/08 13:43 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.7	meq/100g		0.1		Calculation	12/16/08 11:14 / wj
Exchangeable Sodium Percentage	2.8	%		0.1		USDA20a	12/16/08 11:14 / wj
INORGANICS							
Sulfate, sat. paste	2.2	meq/L		0.021		E300.0	12/12/08 05:08 / hm
Chloride, sat. paste	0.43	meq/L		0.028		E300.0	12/12/08 05:08 / hm

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H08100396-017
Client Sample ID: T2/YBA-10-(12-24")

Report Date: 12/29/08
Collection Date: 10/24/08 17:00
Date Received: 10/28/08
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.8	s.u.		0.1		ASAM10-3.2	12/08/08 07:36 / sah
Conductivity, sat. paste	1.00	mmhos/cm		0.01		ASA10-3	12/09/08 09:33 / sah
Saturation	43.3	%		0.1		USDA27a	12/08/08 08:09 / wj
Calcium, sat. paste	3.04	meq/l		0.05		SW6010B	12/11/08 10:16 / sld
Magnesium, sat. paste	2.11	meq/l		0.08		SW6010B	12/11/08 10:16 / sld
Sodium, sat. paste	5.75	meq/l		0.04		SW6010B	12/11/08 10:16 / sld
Sodium Adsorption Ratio (SAR)	3.6	unitless		0.01		Calculation	12/16/08 11:14 / wj
Bicarbonate, sat. paste	3.18	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	16	%		1		ASA15-5	12/10/08 15:07 / wj
Silt	60	%		1		ASA15-5	12/10/08 15:07 / wj
Clay	24	%		1		ASA15-5	12/10/08 15:07 / wj
Texture	SiL	unitless				ASA15-5	12/10/08 15:07 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	21.2	meq/100g		0.09		SW6010B	12/11/08 19:10 / sld
Lime as CaCO3	7.6	%		0.1		USDA23c	12/11/08 00:00 / wj
Nitrate as N, KCL Extract	8.8	mg/kg		1.0		ASA38-3	12/19/08 14:15 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.2	meq/100g		0.0044		SW6010B	12/12/08 13:46 / sld
EXCHANGEABLES							
Exchangeable Sodium	1.0	meq/100g		0.1		Calculation	12/16/08 11:14 / wj
Exchangeable Sodium Percentage	4.6	%		0.1		USDA20a	12/16/08 11:14 / wj
INORGANICS							
Sulfate, sat. paste	7.1	meq/L		0.021		E300.0	12/12/08 05:27 / hm
Chloride, sat. paste	0.93	meq/L		0.028		E300.0	12/12/08 05:27 / hm

Report Definitions: RL - Analyte reporting limit.
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MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H08100396-018
Client Sample ID: T2/YBA-10-(24-36")

Report Date: 12/29/08
Collection Date: 10/24/08 17:00
Date Received: 10/28/08
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.8	s.u.		0.1		ASAM10-3.2	12/08/08 07:36 / sah
Conductivity, sat. paste	1.27	mmhos/cm		0.01		ASA10-3	12/09/08 09:33 / sah
Saturation	43.7	%		0.1		USDA27a	12/08/08 08:09 / wj
Calcium, sat. paste	3.57	meq/l		0.05		SW6010B	12/11/08 10:29 / sld
Magnesium, sat. paste	2.87	meq/l		0.08		SW6010B	12/11/08 10:29 / sld
Sodium, sat. paste	7.69	meq/l		0.04		SW6010B	12/11/08 10:29 / sld
Sodium Adsorption Ratio (SAR)	4.3	unitless		0.01		Calculation	12/16/08 11:14 / wj
Bicarbonate, sat. paste	2.78	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	14	%		1		ASA15-5	12/10/08 15:07 / wj
Silt	62	%		1		ASA15-5	12/10/08 15:07 / wj
Clay	24	%		1		ASA15-5	12/10/08 15:07 / wj
Texture	SiL	unitless				ASA15-5	12/10/08 15:07 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	22.0	meq/100g		0.09		SW6010B	12/11/08 19:18 / sld
Lime as CaCO3	7.0	%		0.1		USDA23c	12/11/08 00:00 / wj
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.6	meq/100g		0.0044		SW6010B	12/12/08 13:49 / sld
EXCHANGEABLES							
Exchangeable Sodium	1.3	meq/100g		0.1		Calculation	12/16/08 11:14 / wj
Exchangeable Sodium Percentage	5.8	%		0.1		USDA20a	12/16/08 11:14 / wj
INORGANICS							
Chloride, sat. paste	1.3	meq/L		0.028		E300.0	12/12/08 06:26 / hm

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H08100396-019
Client Sample ID: T2/YBA-10-(36-60")

Report Date: 12/29/08
Collection Date: 10/24/08 17:00
Date Received: 10/28/08
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.9	s.u.		0.1		ASAM10-3.2	12/08/08 07:37 / sah
Conductivity, sat. paste	2.19	mmhos/cm		0.01		ASA10-3	12/09/08 09:34 / sah
Saturation	45.7	%		0.1		USDA27a	12/08/08 08:09 / wj
Calcium, sat. paste	3.68	meq/l		0.05		SW6010B	12/11/08 10:31 / sld
Magnesium, sat. paste	2.71	meq/l		0.08		SW6010B	12/11/08 10:31 / sld
Sodium, sat. paste	15.1	meq/l		0.04		SW6010B	12/11/08 10:31 / sld
Sodium Adsorption Ratio (SAR)	8.5	unitless		0.01		Calculation	12/16/08 11:14 / wj
Bicarbonate, sat. paste	2.98	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	18	%		1		ASA15-5	12/10/08 15:07 / wj
Silt	54	%		1		ASA15-5	12/10/08 15:07 / wj
Clay	28	%		1		ASA15-5	12/10/08 15:07 / wj
Texture	SiCL	unitless				ASA15-5	12/10/08 15:07 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	24.5	meq/100g		0.09		SW6010B	12/11/08 19:21 / sld
Lime as CaCO3	6.3	%		0.1		USDA23c	12/11/08 00:00 / wj
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	3.3	meq/100g		0.0044		SW6010B	12/12/08 13:51 / sld
EXCHANGEABLES							
Exchangeable Sodium	2.6	meq/100g		0.1		Calculation	12/16/08 11:14 / wj
Exchangeable Sodium Percentage	11	%		0.1		USDA20a	12/16/08 11:14 / wj
INORGANICS							
Fluoride	1.1	mg/kg		0.10		E300.0	12/12/08 06:45 / hm
Chloride, sat. paste	1.2	meq/L		0.028		E300.0	12/12/08 06:45 / hm
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.05		E270.3	12/09/08 10:08 / eau
METALS, CaCL2 EXTRACTABLE							
Barium	0.25	mg/kg		0.20		SW6010B	12/08/08 14:16 / sld
Boron	0.26	mg/kg		0.20		SW6010B	12/08/08 14:16 / sld

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ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H08100396-020
Client Sample ID: T2/YBA-10-(60-96")

Report Date: 12/29/08
Collection Date: 10/24/08 17:00
Date Received: 10/28/08
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	8.1	s.u.		0.1		ASAM10-3.2	12/08/08 07:37 / sah
Conductivity, sat. paste	1.84	mmhos/cm		0.01		ASA10-3	12/09/08 09:34 / sah
Saturation	45.6	%		0.1		USDA27a	12/08/08 08:09 / wj
Calcium, sat. paste	2.28	meq/l		0.05		SW6010B	12/11/08 10:34 / sld
Magnesium, sat. paste	1.18	meq/l		0.08		SW6010B	12/11/08 10:34 / sld
Sodium, sat. paste	14.9	meq/l		0.04		SW6010B	12/11/08 10:34 / sld
Sodium Adsorption Ratio (SAR)	11	unitless		0.01		Calculation	12/16/08 11:14 / wj
Bicarbonate, sat. paste	3.98	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	24	%		1		ASA15-5	12/10/08 15:07 / wj
Silt	50	%		1		ASA15-5	12/10/08 15:07 / wj
Clay	26	%		1		ASA15-5	12/10/08 15:07 / wj
Texture	SiL	unitless				ASA15-5	12/10/08 15:07 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	23.0	meq/100g		0.09		SW6010B	12/11/08 19:23 / sld
Lime as CaCO3	6.7	%		0.1		USDA23c	12/11/08 00:00 / wj
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	4.7	meq/100g		0.0044		SW6010B	12/12/08 13:54 / sld
EXCHANGEABLES							
Exchangeable Sodium	4.0	meq/100g		0.1		Calculation	12/16/08 11:14 / wj
Exchangeable Sodium Percentage	17	%		0.1		USDA20a	12/16/08 11:14 / wj
INORGANICS							
Chloride, sat. paste	1.1	meq/L		0.028		E300.0	12/12/08 07:05 / hm

Report Definitions: RL - Analyte reporting limit.
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 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H08100396-021
Client Sample ID: T2/YBA-10-(0-2")

Report Date: 12/29/08
Collection Date: 10/24/08 17:00
Date Received: 10/28/08
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.4	s.u.		0.1		ASAM10-3.2	12/08/08 07:39 / sah
Conductivity, sat. paste	0.54	mmhos/cm		0.01		ASA10-3	12/09/08 09:34 / sah
Saturation	48.2	%		0.1		USDA27a	12/08/08 08:09 / wj
Calcium, sat. paste	3.38	meq/l		0.05		SW6010B	12/11/08 10:39 / sld
Magnesium, sat. paste	1.28	meq/l		0.08		SW6010B	12/11/08 10:39 / sld
Sodium, sat. paste	1.02	meq/l		0.04		SW6010B	12/11/08 10:39 / sld
Sodium Adsorption Ratio (SAR)	0.67	unitless		0.01		Calculation	12/16/08 11:14 / wj
Bicarbonate, sat. paste	5.57	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	14	%		1		ASA15-5	12/10/08 15:07 / wj
Silt	58	%		1		ASA15-5	12/10/08 15:07 / wj
Clay	28	%		1		ASA15-5	12/10/08 15:07 / wj
Texture	SiCL	unitless				ASA15-5	12/10/08 15:07 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	28.9	meq/100g		0.09		SW6010B	12/11/08 19:28 / sld
Lime as CaCO3	6.2	%		0.1		USDA23c	12/11/08 00:00 / wj
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.44	meq/100g		0.0044		SW6010B	12/12/08 13:59 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.4	meq/100g		0.1		Calculation	12/16/08 11:14 / wj
Exchangeable Sodium Percentage	1.3	%		0.1		USDA20a	12/16/08 11:14 / wj
INORGANICS							
Chloride, sat. paste	0.19	meq/L		0.028		E300.0	12/12/08 07:43 / hm

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.