



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H08100399-022
Client Sample ID: T2/EA-10-(0-6")

Report Date: 12/29/08
Collection Date: 10/23/08 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 07:17 / sah
Conductivity, sat. paste	0.79	mmhos/cm		0.01		ASA10-3	12/16/08 11:11 / sah
Saturation	52.6	%		0.1		USDA27a	12/08/08 08:05 / wj
Calcium, sat. paste	4.49	meq/l		0.05		SW6010B	12/11/08 12:02 / sld
Magnesium, sat. paste	2.58	meq/l		0.08		SW6010B	12/11/08 12:02 / sld
Sodium, sat. paste	0.83	meq/l		0.04		SW6010B	12/11/08 12:02 / sld
Sodium Adsorption Ratio (SAR)	0.44	unitless		0.01		Calculation	12/16/08 11:19 / wj
Bicarbonate, sat. paste	7.55	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	18	%		1		ASA15-5	12/09/08 09:42 / sah
Silt	50	%		1		ASA15-5	12/09/08 09:42 / sah
Clay	32	%		1		ASA15-5	12/09/08 09:42 / sah
Texture	SiCL	unitless				ASA15-5	12/09/08 09:42 / sah
CHEMICAL CHARACTERISTICS							
Potassium, NH4OAc Extractable	284	mg/kg		1		ASA13-3	12/12/08 15:27 / sld
Cation Exchange Capacity	32.0	meq/100g		0.09		SW6010B	12/12/08 11:43 / sld
Organic Matter	4.04	%		0.02		ASA29-3	12/12/08 13:31 / sah
Lime as CaCO3	6.1	%		0.1		USDA23c	12/11/08 00:00 / wj
Phosphorus	6.8	mg/kg		0.1		ASA24-5	12/19/08 15:40 / stp
Nitrate as N, KCL Extract	40	mg/kg		1.0		ASA38-3	12/19/08 15:33 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.41	meq/100g		0.0044		SW6010B	12/12/08 15:27 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.4	meq/100g		0.1		Calculation	12/16/08 11:19 / wj
Exchangeable Sodium Percentage	1.2	%		0.1		USDA20a	12/16/08 11:19 / wj
INORGANICS							
Fluoride	0.47	mg/kg		0.10		E300.0	12/12/08 18:44 / hm
Sulfate, sat. paste	0.64	meq/L		0.021		E300.0	12/12/08 18:44 / hm
Chloride, sat. paste	0.30	meq/L		0.028		E300.0	12/12/08 18:44 / hm
METALS, DTPA EXTRACTABLE							
Zinc	0.47	mg/kg		0.02		SW6010B	12/17/08 13:39 / sld
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.05		E270.3	12/09/08 10:25 / eau

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

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: H08100399-022
Client Sample ID: T2/EA-10-(0-6")

Report Date: 12/29/08
Collection Date: 10/23/08 17:00
Date Received: 10/28/08
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, CACL2 EXTRACTABLE							
Barium	1.3	mg/kg		0.20		SW6010B	12/08/08 15:12 / sld
Boron	0.34	mg/kg		0.20		SW6010B	12/08/08 15:12 / sld

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H08100399-023
Client Sample ID: T2/EA-10-(6-12")

Report Date: 12/29/08
Collection Date: 10/23/08 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	7.7	s.u.		0.1		ASAM10-3.2	12/08/08 07:18 / sah
Conductivity, sat. paste	0.79	mmhos/cm		0.01		ASA10-3	12/16/08 11:11 / sah
Saturation	46.0	%		0.1		USDA27a	12/08/08 08:05 / wj
Calcium, sat. paste	3.49	meq/l		0.05		SW6010B	12/11/08 12:04 / sld
Magnesium, sat. paste	2.38	meq/l		0.08		SW6010B	12/11/08 12:04 / sld
Sodium, sat. paste	2.14	meq/l		0.04		SW6010B	12/11/08 12:04 / sld
Sodium Adsorption Ratio (SAR)	1.2	unitless		0.01		Calculation	12/16/08 11:19 / wj
Bicarbonate, sat. paste	5.17	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	25	%		1		ASA15-5	12/09/08 09:42 / sah
Silt	47	%		1		ASA15-5	12/09/08 09:42 / sah
Clay	28	%		1		ASA15-5	12/09/08 09:42 / sah
Texture	CL	unitless				ASA15-5	12/09/08 09:42 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	26.4	meq/100g		0.09		SW6010B	12/12/08 11:46 / 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 14:48 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.70	meq/100g		0.0044		SW6010B	12/12/08 15:29 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.6	meq/100g		0.1		Calculation	12/16/08 11:19 / wj
Exchangeable Sodium Percentage	2.3	%		0.1		USDA20a	12/16/08 11:19 / wj
INORGANICS							
Sulfate, sat. paste	3.4	meq/L		0.021		E300.0	12/12/08 19:03 / hm
Chloride, sat. paste	0.42	meq/L		0.028		E300.0	12/12/08 19:03 / hm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H08100399-024
Client Sample ID: T2/EA-10-(12-24")

Report Date: 12/29/08
Collection Date: 10/23/08 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 07:18 / sah
Conductivity, sat. paste	2.97	mmhos/cm		0.01		ASA10-3	12/16/08 11:11 / sah
Saturation	45.6	%		0.1		USDA27a	12/08/08 08:05 / wj
Calcium, sat. paste	14.5	meq/l		0.05		SW6010B	12/11/08 12:07 / sld
Magnesium, sat. paste	12.3	meq/l		0.08		SW6010B	12/11/08 12:07 / sld
Sodium, sat. paste	12.1	meq/l		0.04		SW6010B	12/11/08 12:07 / sld
Sodium Adsorption Ratio (SAR)	3.3	unitless		0.01		Calculation	12/16/08 11:19 / wj
Bicarbonate, sat. paste	3.58	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	24	%		1		ASA15-5	12/09/08 09:42 / sah
Silt	46	%		1		ASA15-5	12/09/08 09:42 / sah
Clay	30	%		1		ASA15-5	12/09/08 09:42 / sah
Texture	CL	unitless				ASA15-5	12/09/08 09:42 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	27.6	meq/100g		0.09		SW6010B	12/12/08 11:48 / sld
Lime as CaCO3	7.4	%		0.1		USDA23c	12/11/08 00:00 / wj
Nitrate as N, KCL Extract	9.9	mg/kg		1.0		ASA38-3	12/19/08 14:50 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.6	meq/100g		0.0044		SW6010B	12/12/08 15:32 / sld
EXCHANGEABLES							
Exchangeable Sodium	1.0	meq/100g		0.1		Calculation	12/16/08 11:19 / wj
Exchangeable Sodium Percentage	3.8	%		0.1		USDA20a	12/16/08 11:19 / wj
INORGANICS							
Sulfate, sat. paste	38	meq/L		0.021		E300.0	12/12/08 20:02 / hm
Chloride, sat. paste	0.42	meq/L		0.028		E300.0	12/12/08 20:02 / hm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H08100399-025
Client Sample ID: T2/EA-10-(24-36")

Report Date: 12/29/08
Collection Date: 10/23/08 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 07:19 / sah
Conductivity, sat. paste	5.55	mmhos/cm		0.01		ASA10-3	12/16/08 11:11 / sah
Saturation	48.3	%		0.1		USDA27a	12/08/08 08:05 / wj
Calcium, sat. paste	20.2	meq/l		0.05		SW6010B	12/11/08 12:09 / sld
Magnesium, sat. paste	25.9	meq/l		0.08		SW6010B	12/11/08 12:09 / sld
Sodium, sat. paste	27.5	meq/l		0.04		SW6010B	12/11/08 12:09 / sld
Sodium Adsorption Ratio (SAR)	5.7	unitless		0.01		Calculation	12/16/08 11:19 / wj
Bicarbonate, sat. paste	2.58	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	18	%		1		ASA15-5	12/09/08 09:42 / sah
Silt	50	%		1		ASA15-5	12/09/08 09:42 / sah
Clay	32	%		1		ASA15-5	12/09/08 09:42 / sah
Texture	SiCL	unitless				ASA15-5	12/09/08 09:42 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	24.4	meq/100g		0.09		SW6010B	12/12/08 11:51 / sld
Lime as CaCO3	9.3	%		0.1		USDA23c	12/11/08 00:00 / wj
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	2.7	meq/100g		0.0044		SW6010B	12/12/08 15:34 / sld
EXCHANGEABLES							
Exchangeable Sodium	1.4	meq/100g		0.1		Calculation	12/16/08 11:19 / wj
Exchangeable Sodium Percentage	5.7	%		0.1		USDA20a	12/16/08 11:19 / wj
INORGANICS							
Chloride, sat. paste	0.52	meq/L		0.028		E300.0	12/12/08 20:21 / 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: H08100399-026
Client Sample ID: T2/EA-10-(36-60")

Report Date: 12/29/08
Collection Date: 10/23/08 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 07:19 / sah
Conductivity, sat. paste	4.31	mmhos/cm		0.01		ASA10-3	12/16/08 11:11 / sah
Saturation	42.7	%		0.1		USDA27a	12/08/08 08:05 / wj
Calcium, sat. paste	10.6	meq/l		0.05		SW6010B	12/11/08 12:12 / sld
Magnesium, sat. paste	20.9	meq/l		0.08		SW6010B	12/11/08 12:12 / sld
Sodium, sat. paste	21.2	meq/l		0.04		SW6010B	12/11/08 12:12 / sld
Sodium Adsorption Ratio (SAR)	5.3	unitless		0.01		Calculation	12/16/08 11:19 / wj
Bicarbonate, sat. paste	2.78	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	32	%		1		ASA15-5	12/09/08 09:42 / sah
Silt	42	%		1		ASA15-5	12/09/08 09:42 / sah
Clay	26	%		1		ASA15-5	12/09/08 09:42 / sah
Texture	L	unitless				ASA15-5	12/09/08 09:42 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	21.1	meq/100g		0.09		SW6010B	12/12/08 11:53 / sld
Lime as CaCO3	8.7	%		0.1		USDA23c	12/11/08 00:00 / wj
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	2.2	meq/100g		0.0044		SW6010B	12/12/08 15:47 / sld
EXCHANGEABLES							
Exchangeable Sodium	1.4	meq/100g		0.1		Calculation	12/16/08 11:19 / wj
Exchangeable Sodium Percentage	6.4	%		0.1		USDA20a	12/16/08 11:19 / wj
INORGANICS							
Fluoride	0.79	mg/kg		0.10		E300.0	12/12/08 20:40 / hm
Chloride, sat. paste	0.31	meq/L		0.028		E300.0	12/12/08 20:40 / hm
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.05		E270.3	12/09/08 10:26 / eau
METALS, CaCl2 EXTRACTABLE							
Barium	ND	mg/kg		0.20		SW6010B	12/08/08 15:15 / sld
Boron	0.58	mg/kg		0.20		SW6010B	12/08/08 15:15 / sld

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H08100399-027
Client Sample ID: T2/EA-10-(60-96")

Report Date: 12/29/08
Collection Date: 10/23/08 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 07:20 / sah
Conductivity, sat. paste	3.04	mmhos/cm		0.01		ASA10-3	12/16/08 11:11 / sah
Saturation	36.4	%		0.1		USDA27a	12/08/08 08:05 / wj
Calcium, sat. paste	5.87	meq/l		0.05		SW6010B	12/11/08 12:14 / sld
Magnesium, sat. paste	13.1	meq/l		0.08		SW6010B	12/11/08 12:14 / sld
Sodium, sat. paste	15.6	meq/l		0.04		SW6010B	12/11/08 12:14 / sld
Sodium Adsorption Ratio (SAR)	5.1	unitless		0.01		Calculation	12/16/08 11:19 / wj
Bicarbonate, sat. paste	1.99	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	38	%		1		ASA15-5	12/09/08 09:42 / sah
Silt	38	%		1		ASA15-5	12/09/08 09:42 / sah
Clay	24	%		1		ASA15-5	12/09/08 09:42 / sah
Texture	L	unitless				ASA15-5	12/09/08 09:42 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	17.4	meq/100g		0.09		SW6010B	12/12/08 11:56 / sld
Lime as CaCO3	8.1	%		0.1		USDA23c	12/11/08 00:00 / wj
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.7	meq/100g		0.0044		SW6010B	12/12/08 15:50 / sld
EXCHANGEABLES							
Exchangeable Sodium	1.1	meq/100g		0.1		Calculation	12/16/08 11:19 / wj
Exchangeable Sodium Percentage	6.3	%		0.1		USDA20a	12/16/08 11:19 / wj
INORGANICS							
Chloride, sat. paste	0.30	meq/L		0.028		E300.0	12/12/08 21:00 / hm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H08100399-028
Client Sample ID: T2/EA-10-(0-2")

Report Date: 12/29/08
Collection Date: 10/23/08 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	7.3	s.u.		0.1		ASAM10-3.2	12/08/08 07:20 / sah
Conductivity, sat. paste	1.20	mmhos/cm		0.01		ASA10-3	12/16/08 11:11 / sah
Saturation	59.8	%		0.1		USDA27a	12/08/08 08:06 / wj
Calcium, sat. paste	7.10	meq/l		0.05		SW6010B	12/11/08 12:22 / sld
Magnesium, sat. paste	3.75	meq/l		0.08		SW6010B	12/11/08 12:22 / sld
Sodium, sat. paste	0.48	meq/l		0.04		SW6010B	12/11/08 12:22 / sld
Sodium Adsorption Ratio (SAR)	0.21	unitless		0.01		Calculation	12/16/08 11:19 / wj
Bicarbonate, sat. paste	11.7	meq/L		0.02		ASA10-3	12/10/08 15:41 / hm
PHYSICAL CHARACTERISTICS							
Sand	18	%		1		ASA15-5	12/09/08 09:42 / sah
Silt	54	%		1		ASA15-5	12/09/08 09:42 / sah
Clay	28	%		1		ASA15-5	12/09/08 09:42 / sah
Texture	SiCL	unitless				ASA15-5	12/09/08 09:42 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	33.2	meq/100g		0.09		SW6010B	12/12/08 11:59 / sld
Lime as CaCO3	5.7	%		0.1		USDA23c	12/11/08 00:00 / wj
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.35	meq/100g		0.0044		SW6010B	12/12/08 15:53 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.3	meq/100g		0.1		Calculation	12/16/08 11:19 / wj
Exchangeable Sodium Percentage	1.0	%		0.1		USDA20a	12/16/08 11:19 / wj
INORGANICS							
Chloride, sat. paste	0.35	meq/L		0.028		E300.0	12/12/08 21:19 / hm

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

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