



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H09110004-022
Client Sample ID: T2/GA-10 (0-6") [0-6]

Report Date: 12/18/09
Collection Date: 10/27/09 17:00
Date Received: 10/30/09
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	11/11/09 08:01 / rrr
Conductivity, sat. paste	0.48	mmhos/cm		0.01		ASA10-3	11/12/09 15:38 / sah
Saturation	44.6	%		0.1		USDA27a	11/11/09 08:10 / wj
Calcium, sat. paste	3.22	meq/l		0.05		SW6010B	12/01/09 13:51 / sld
Magnesium, sat. paste	1.57	meq/l		0.08		SW6010B	12/01/09 13:51 / sld
Sodium, sat. paste	0.71	meq/l		0.04		SW6010B	12/01/09 13:51 / sld
Sodium Adsorption Ratio (SAR)	0.46	unitless		0.01		Calculation	11/16/09 07:56 / wj
Bicarbonate, sat. paste	4.02	meq/L		0.02		ASA10-3	11/13/09 23:33 / wj
PHYSICAL CHARACTERISTICS							
Sand	36	%		1		ASA15-5	11/11/09 15:29 / wj
Silt	42	%		1		ASA15-5	11/11/09 15:29 / wj
Clay	22	%		1		ASA15-5	11/11/09 15:29 / wj
Texture	L	unitless				ASA15-5	11/11/09 15:29 / wj
CHEMICAL CHARACTERISTICS							
Potassium, NH4OAc Extractable	202	mg/kg		1		ASA13-3	11/14/09 18:10 / sld
Cation Exchange Capacity	23.5	meq/100g		0.09		SW6010B	11/15/09 20:58 / sld
Organic Matter	2.78	%		0.02		ASA29-3	11/16/09 08:06 / rrr
Lime as CaCO3	5.4	%		0.1		USDA23c	11/16/09 00:00 / sah
Phosphorus	17	mg/kg		0.1		ASA24-5	11/24/09 16:00 / stp
Nitrate as N, KCL Extract	20	mg/kg		1.0		ASA38-3	11/17/09 16:17 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.26	meq/100g		0.0044		SW6010B	11/14/09 13:49 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.2	meq/100g		0.1		Calculation	11/16/09 07:56 / wj
Exchangeable Sodium Percentage	1.0	%		0.1		USDA20a	11/16/09 07:56 / wj
INORGANICS							
Fluoride	0.57	mg/kg		0.10		E300.0	11/21/09 05:42 / hm
Sulfate, sat. paste	1.1	meq/L		0.021		E300.0	11/21/09 05:42 / hm
Chloride, sat. paste	0.28	meq/L		0.028		E300.0	11/21/09 05:42 / hm
METALS, DTPA EXTRACTABLE							
Zinc	0.94	mg/kg		0.02		SW6010B	12/17/09 16:53 / sld
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.04		E270.3	11/24/09 10:09 / 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: H09110004-022
Client Sample ID: T2/GA-10 (0-6") [0-6]

Report Date: 12/18/09
Collection Date: 10/27/09 17:00
Date Received: 10/30/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, CACL2 EXTRACTABLE							
Barium	1.4	mg/kg		0.20		SW6010B	12/04/09 11:57 / sld
Boron	ND	mg/kg		0.20		SW6010B	12/04/09 11:57 / sld

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H09110004-023
Client Sample ID: T2/GA-10 (6-12") [6-12]

Report Date: 12/18/09
Collection Date: 10/27/09 17:00
Date Received: 10/30/09
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	11/11/09 08:02 / rrr
Conductivity, sat. paste	0.39	mmhos/cm		0.01		ASA10-3	11/12/09 15:38 / sah
Saturation	41.5	%		0.1		USDA27a	11/11/09 08:10 / wj
Calcium, sat. paste	2.27	meq/l		0.05		SW6010B	12/01/09 13:54 / sld
Magnesium, sat. paste	1.16	meq/l		0.08		SW6010B	12/01/09 13:54 / sld
Sodium, sat. paste	0.72	meq/l		0.04		SW6010B	12/01/09 13:54 / sld
Sodium Adsorption Ratio (SAR)	0.55	unitless		0.01		Calculation	11/16/09 07:56 / wj
Bicarbonate, sat. paste	2.30	meq/L		0.02		ASA10-3	11/13/09 23:54 / wj
PHYSICAL CHARACTERISTICS							
Sand	36	%		1		ASA15-5	11/11/09 15:29 / wj
Silt	40	%		1		ASA15-5	11/11/09 15:29 / wj
Clay	24	%		1		ASA15-5	11/11/09 15:29 / wj
Texture	L	unitless				ASA15-5	11/11/09 15:29 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	22.9	meq/100g		0.09		SW6010B	11/15/09 21:01 / sld
Lime as CaCO3	5.6	%		0.1		USDA23c	11/16/09 00:00 / sah
Nitrate as N, KCL Extract	8.2	mg/kg		1.0		ASA38-3	11/17/09 16:19 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.28	meq/100g		0.0044		SW6010B	11/14/09 13:52 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.2	meq/100g		0.1		Calculation	11/16/09 07:56 / wj
Exchangeable Sodium Percentage	1.1	%		0.1		USDA20a	11/16/09 07:56 / wj
INORGANICS							
Sulfate, sat. paste	1.1	meq/L		0.021		E300.0	11/21/09 05:58 / hm
Chloride, sat. paste	0.26	meq/L		0.028		E300.0	11/21/09 05:58 / hm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H09110004-024
Client Sample ID: T2/GA-10 (12-24") [12-24]

Report Date: 12/18/09
Collection Date: 10/27/09 17:00
Date Received: 10/30/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	8.0	s.u.		0.1		ASAM10-3.2	11/11/09 08:03 / rrr
Conductivity, sat. paste	0.88	mmhos/cm		0.01		ASA10-3	11/12/09 15:39 / sah
Saturation	42.6	%		0.1		USDA27a	11/11/09 08:10 / wj
Calcium, sat. paste	3.75	meq/l		0.05		SW6010B	12/01/09 13:56 / sld
Magnesium, sat. paste	2.84	meq/l		0.08		SW6010B	12/01/09 13:56 / sld
Sodium, sat. paste	3.30	meq/l		0.04		SW6010B	12/01/09 13:56 / sld
Sodium Adsorption Ratio (SAR)	1.8	unitless		0.01		Calculation	11/16/09 07:56 / wj
Bicarbonate, sat. paste	2.51	meq/L		0.02		ASA10-3	11/14/09 00:00 / wj
PHYSICAL CHARACTERISTICS							
Sand	30	%		1		ASA15-5	11/11/09 15:29 / wj
Silt	46	%		1		ASA15-5	11/11/09 15:29 / wj
Clay	24	%		1		ASA15-5	11/11/09 15:29 / wj
Texture	L	unitless				ASA15-5	11/11/09 15:29 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	22.8	meq/100g		0.09		SW6010B	11/15/09 21:03 / sld
Lime as CaCO3	6.9	%		0.1		USDA23c	11/16/09 00:00 / sah
Nitrate as N, KCL Extract	5.0	mg/kg		1.0		ASA38-3	11/17/09 16:57 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.69	meq/100g		0.0044		SW6010B	11/14/09 14:00 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.6	meq/100g		0.1		Calculation	11/16/09 07:56 / wj
Exchangeable Sodium Percentage	2.4	%		0.1		USDA20a	11/16/09 07:56 / wj
INORGANICS							
Sulfate, sat. paste	6.9	meq/L		0.021		E300.0	11/21/09 06:15 / hm
Chloride, sat. paste	0.40	meq/L		0.028		E300.0	11/21/09 06:15 / hm

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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: H09110004-025
Client Sample ID: T2/GA-10 (24-36") [24-36]

Report Date: 12/18/09
Collection Date: 10/27/09 17:00
Date Received: 10/30/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	8.0	s.u.		0.1		ASAM10-3.2	11/11/09 08:06 / rrr
Conductivity, sat. paste	4.40	mmhos/cm		0.01		ASA10-3	11/12/09 15:41 / sah
Saturation	39.2	%		0.1		USDA27a	11/11/09 08:10 / wj
Calcium, sat. paste	16.4	meq/l		0.05		SW6010B	12/01/09 14:04 / sld
Magnesium, sat. paste	22.4	meq/l		0.08		SW6010B	12/01/09 14:04 / sld
Sodium, sat. paste	22.0	meq/l		0.04		SW6010B	12/01/09 14:04 / sld
Sodium Adsorption Ratio (SAR)	5.0	unitless		0.01		Calculation	11/16/09 07:56 / wj
Bicarbonate, sat. paste	1.85	meq/L		0.02		ASA10-3	11/14/09 00:06 / wj
PHYSICAL CHARACTERISTICS							
Sand	38	%		1		ASA15-5	11/11/09 15:29 / wj
Silt	40	%		1		ASA15-5	11/11/09 15:29 / wj
Clay	22	%		1		ASA15-5	11/11/09 15:29 / wj
Texture	L	unitless				ASA15-5	11/11/09 15:29 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	17.3	meq/100g		0.09		SW6010B	11/15/09 21:11 / sld
Lime as CaCO3	6.6	%		0.1		USDA23c	11/16/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.8	meq/100g		0.0044		SW6010B	11/14/09 14:02 / sld
EXCHANGEABLES							
Exchangeable Sodium	1.0	meq/100g		0.1		Calculation	11/16/09 07:56 / wj
Exchangeable Sodium Percentage	5.6	%		0.1		USDA20a	11/16/09 07:56 / wj
INORGANICS							
Chloride, sat. paste	0.56	meq/L		0.028		E300.0	11/21/09 07:04 / hm

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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: H09110004-026
Client Sample ID: T2/GA-10 (36-60") [36-60]

Report Date: 12/18/09
Collection Date: 10/27/09 17:00
Date Received: 10/30/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	8.0	s.u.		0.1		ASAM10-3.2	11/11/09 08:06 / rrr
Conductivity, sat. paste	3.13	mmhos/cm		0.01		ASA10-3	11/12/09 15:42 / sah
Saturation	37.4	%		0.1		USDA27a	11/11/09 08:10 / wj
Calcium, sat. paste	10.5	meq/l		0.05		SW6010B	12/01/09 14:07 / sld
Magnesium, sat. paste	15.5	meq/l		0.08		SW6010B	12/01/09 14:07 / sld
Sodium, sat. paste	15.3	meq/l		0.04		SW6010B	12/01/09 14:07 / sld
Sodium Adsorption Ratio (SAR)	4.2	unitless		0.01		Calculation	11/16/09 07:56 / wj
Bicarbonate, sat. paste	2.20	meq/L		0.02		ASA10-3	11/14/09 00:12 / wj
PHYSICAL CHARACTERISTICS							
Sand	46	%		1		ASA15-5	11/11/09 15:29 / wj
Silt	36	%		1		ASA15-5	11/11/09 15:29 / wj
Clay	18	%		1		ASA15-5	11/11/09 15:29 / wj
Texture	L	unitless				ASA15-5	11/11/09 15:29 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	15.3	meq/100g		0.09		SW6010B	11/15/09 21:14 / sld
Lime as CaCO3	6.1	%		0.1		USDA23c	11/16/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.3	meq/100g		0.0044		SW6010B	11/14/09 14:05 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.7	meq/100g		0.1		Calculation	11/16/09 07:56 / wj
Exchangeable Sodium Percentage	4.6	%		0.1		USDA20a	11/16/09 07:56 / wj
INORGANICS							
Fluoride	1.2	mg/kg		0.10		E300.0	11/21/09 07:21 / hm
Chloride, sat. paste	0.44	meq/L		0.028		E300.0	11/21/09 07:21 / hm
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.04		E270.3	11/24/09 10:10 / eau
METALS, CaCl2 EXTRACTABLE							
Barium	0.28	mg/kg		0.20		SW6010B	12/04/09 12:00 / sld
Boron	0.37	mg/kg		0.20		SW6010B	12/04/09 12:00 / sld

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H09110004-027
Client Sample ID: T2/GA-10 (60-96") [60-96]

Report Date: 12/18/09
Collection Date: 10/27/09 17:00
Date Received: 10/30/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	8.3	s.u.		0.1		ASAM10-3.2	11/11/09 08:07 / rrr
Conductivity, sat. paste	1.55	mmhos/cm		0.01		ASA10-3	11/12/09 15:43 / sah
Saturation	30.5	%		0.1		USDA27a	11/11/09 08:10 / wj
Calcium, sat. paste	3.35	meq/l		0.05		SW6010B	12/01/09 14:09 / sld
Magnesium, sat. paste	5.72	meq/l		0.08		SW6010B	12/01/09 14:09 / sld
Sodium, sat. paste	9.72	meq/l		0.04		SW6010B	12/01/09 14:09 / sld
Sodium Adsorption Ratio (SAR)	4.6	unitless		0.01		Calculation	11/16/09 07:56 / wj
Bicarbonate, sat. paste	1.96	meq/L		0.02		ASA10-3	11/14/09 00:17 / wj
PHYSICAL CHARACTERISTICS							
Sand	72	%		1		ASA15-5	11/11/09 15:29 / wj
Silt	18	%		1		ASA15-5	11/11/09 15:29 / wj
Clay	10	%		1		ASA15-5	11/11/09 15:29 / wj
Texture	SL	unitless				ASA15-5	11/11/09 15:29 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	9.07	meq/100g		0.09		SW6010B	11/15/09 21:17 / sld
Lime as CaCO3	5.0	%		0.1		USDA23c	11/16/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.77	meq/100g		0.0044		SW6010B	11/14/09 14:08 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.5	meq/100g		0.1		Calculation	11/16/09 07:56 / wj
Exchangeable Sodium Percentage	5.2	%		0.1		USDA20a	11/16/09 07:56 / wj
INORGANICS							
Chloride, sat. paste	0.25	meq/L		0.028		E300.0	11/21/09 07:37 / hm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H09110004-028
Client Sample ID: T2/GA-10 (0-2") [0-2]

Report Date: 12/18/09
Collection Date: 10/27/09 17:00
Date Received: 10/30/09
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	11/11/09 08:08 / rrr
Conductivity, sat. paste	0.63	mmhos/cm		0.01		ASA10-3	11/12/09 15:43 / sah
Saturation	48.2	%		0.1		USDA27a	11/11/09 08:11 / wj
Calcium, sat. paste	3.86	meq/l		0.05		SW6010B	12/01/09 14:12 / sld
Magnesium, sat. paste	1.95	meq/l		0.08		SW6010B	12/01/09 14:12 / sld
Sodium, sat. paste	0.75	meq/l		0.04		SW6010B	12/01/09 14:12 / sld
Sodium Adsorption Ratio (SAR)	0.44	unitless		0.01		Calculation	11/16/09 07:56 / wj
Bicarbonate, sat. paste	5.82	meq/L		0.02		ASA10-3	11/14/09 00:24 / wj
PHYSICAL CHARACTERISTICS							
Sand	34	%		1		ASA15-5	11/11/09 15:29 / wj
Silt	44	%		1		ASA15-5	11/11/09 15:29 / wj
Clay	22	%		1		ASA15-5	11/11/09 15:29 / wj
Texture	L	unitless				ASA15-5	11/11/09 15:29 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	24.6	meq/100g		0.09		SW6010B	11/15/09 21:24 / sld
Lime as CaCO3	5.2	%		0.1		USDA23c	11/16/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.26	meq/100g		0.0044		SW6010B	11/14/09 14:10 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.2	meq/100g		0.1		Calculation	11/16/09 07:56 / wj
Exchangeable Sodium Percentage	0.9	%		0.1		USDA20a	11/16/09 07:56 / wj
INORGANICS							
Chloride, sat. paste	0.28	meq/L		0.028		E300.0	11/21/09 07:53 / hm

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

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