



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (Formerly Referred To As AMPP)
Lab ID: H09110013-036
Client Sample ID: T2/YAA-10 (0-6") [0-6]

Report Date: 12/22/09
Collection Date: 10/29/09 17:00
Date Received: 11/02/09
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	11/17/09 09:08 / rrr
Conductivity, sat. paste	0.72	mmhos/cm		0.01		ASA10-3	11/18/09 08:46 / rrr
Saturation	58.0	%		0.1		USDA27a	11/17/09 08:12 / wj
Calcium, sat. paste	3.83	meq/l		0.05		SW6010B	11/19/09 12:37 / sld
Magnesium, sat. paste	2.77	meq/l		0.08		SW6010B	11/19/09 12:37 / sld
Sodium, sat. paste	2.19	meq/l		0.04		SW6010B	11/19/09 12:37 / sld
Sodium Adsorption Ratio (SAR)	1.2	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	6.33	meq/L		0.02		ASA10-3	12/08/09 20:12 / wj
PHYSICAL CHARACTERISTICS							
Sand	24	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	46	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	30	%		1		ASA15-5	11/18/09 15:11 / sah
Texture	CL	unitless				ASA15-5	11/18/09 15:11 / sah
CHEMICAL CHARACTERISTICS							
Potassium, NH4OAc Extractable	150	mg/kg		1		ASA13-3	12/21/09 11:38 / sld
Cation Exchange Capacity	35.0	meq/100g		0.09		SW6010B	11/20/09 00:37 / sld
Organic Matter	3.52	%		0.02		ASA29-3	11/17/09 11:33 / sah
Lime as CaCO3	4.0	%		0.1		USDA23c	11/17/09 00:00 / sah
Phosphorus	5.7	mg/kg		0.1		ASA24-5	11/24/09 16:17 / stp
Nitrate as N, KCL Extract	6.0	mg/kg		1.0		ASA38-3	12/04/09 14:04 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.45	meq/100g		0.0044		SW6010B	12/03/09 15:07 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.3	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	0.9	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Fluoride	0.75	mg/kg		0.10		E300.0	11/22/09 04:09 / hm
Sulfate, sat. paste	2.2	meq/L		0.021		E300.0	11/22/09 04:09 / hm
Chloride, sat. paste	0.34	meq/L		0.028		E300.0	11/22/09 04:09 / hm
METALS, DTPA EXTRACTABLE							
Zinc	0.60	mg/kg		0.02		SW6010B	12/17/09 18:52 / sld
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.04		E270.3	12/16/09 12:00 / 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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Project: TRIP Tier II (Formerly Referred To As AMPP)
Lab ID: H09110013-036
Client Sample ID: T2/YAA-10 (0-6") [0-6]

Report Date: 12/22/09
Collection Date: 10/29/09 17:00
Date Received: 11/02/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, CACL2 EXTRACTABLE							
Barium	1.1	mg/kg		0.20		SW6010B	12/04/09 13:36 / sld
Boron	ND	mg/kg		0.20		SW6010B	12/04/09 13:36 / sld

Report Definitions: RL - Analyte reporting limit.
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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (Formerly Referred To As AMPP)
Lab ID: H09110013-037
Client Sample ID: T2/YAA-10 (6-12") [6-12]

Report Date: 12/22/09
Collection Date: 10/29/09 17:00
Date Received: 11/02/09
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	11/17/09 09:09 / rrr
Conductivity, sat. paste	0.64	mmhos/cm		0.01		ASA10-3	11/18/09 08:47 / rrr
Saturation	51.2	%		0.1		USDA27a	11/17/09 08:12 / wj
Calcium, sat. paste	2.84	meq/l		0.05		SW6010B	11/19/09 12:40 / sld
Magnesium, sat. paste	2.04	meq/l		0.08		SW6010B	11/19/09 12:40 / sld
Sodium, sat. paste	2.41	meq/l		0.04		SW6010B	11/19/09 12:40 / sld
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	3.95	meq/L		0.02		ASA10-3	12/08/09 20:18 / wj
PHYSICAL CHARACTERISTICS							
Sand	22	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	48	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	30	%		1		ASA15-5	11/18/09 15:11 / sah
Texture	CL	unitless				ASA15-5	11/18/09 15:11 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	32.9	meq/100g		0.09		SW6010B	11/20/09 00:40 / sld
Lime as CaCO3	4.2	%		0.1		USDA23c	11/17/09 00:00 / sah
Nitrate as N, KCL Extract	5.4	mg/kg		1.0		ASA38-3	12/04/09 14:06 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.56	meq/100g		0.0044		SW6010B	12/03/09 15:10 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.4	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	1.3	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Sulfate, sat. paste	3.3	meq/L		0.021		E300.0	11/22/09 04:25 / hm
Chloride, sat. paste	0.18	meq/L		0.028		E300.0	11/22/09 04:25 / hm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (Formerly Referred To As AMPP)
Lab ID: H09110013-038
Client Sample ID: T2/YAA-10 (12-24") [12-24]

Report Date: 12/22/09
Collection Date: 10/29/09 17:00
Date Received: 11/02/09
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	11/17/09 09:10 / rrr
Conductivity, sat. paste	0.84	mmhos/cm		0.01		ASA10-3	11/18/09 08:47 / rrr
Saturation	48.2	%		0.1		USDA27a	11/17/09 08:12 / wj
Calcium, sat. paste	3.44	meq/l		0.05		SW6010B	11/19/09 12:42 / sld
Magnesium, sat. paste	2.98	meq/l		0.08		SW6010B	11/19/09 12:42 / sld
Sodium, sat. paste	3.84	meq/l		0.04		SW6010B	11/19/09 12:42 / sld
Sodium Adsorption Ratio (SAR)	2.1	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	3.73	meq/L		0.02		ASA10-3	12/08/09 20:23 / wj
PHYSICAL CHARACTERISTICS							
Sand	24	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	48	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	28	%		1		ASA15-5	11/18/09 15:11 / sah
Texture	CL	unitless				ASA15-5	11/18/09 15:11 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	31.0	meq/100g		0.09		SW6010B	11/20/09 00:42 / sld
Lime as CaCO3	4.6	%		0.1		USDA23c	11/17/09 00:00 / sah
Nitrate as N, KCL Extract	4.7	mg/kg		1.0		ASA38-3	12/04/09 14:08 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.82	meq/100g		0.0044		SW6010B	12/03/09 15:12 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.6	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	2.0	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Sulfate, sat. paste	6.8	meq/L		0.021		E300.0	11/22/09 04:42 / hm
Chloride, sat. paste	0.22	meq/L		0.028		E300.0	11/22/09 04:42 / 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: H09110013-039
Client Sample ID: T2/YAA-10 (24-36") [24-36]

Report Date: 12/22/09
Collection Date: 10/29/09 17:00
Date Received: 11/02/09
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	11/17/09 09:11 / rrr
Conductivity, sat. paste	0.94	mmhos/cm		0.01		ASA10-3	11/18/09 08:48 / rrr
Saturation	48.6	%		0.1		USDA27a	11/17/09 08:12 / wj
Calcium, sat. paste	2.96	meq/l		0.05		SW6010B	11/19/09 12:50 / sld
Magnesium, sat. paste	2.49	meq/l		0.08		SW6010B	11/19/09 12:50 / sld
Sodium, sat. paste	5.59	meq/l		0.04		SW6010B	11/19/09 12:50 / sld
Sodium Adsorption Ratio (SAR)	3.4	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	3.16	meq/L		0.02		ASA10-3	12/08/09 20:29 / wj
PHYSICAL CHARACTERISTICS							
Sand	26	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	48	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	26	%		1		ASA15-5	11/18/09 15:11 / sah
Texture	L	unitless				ASA15-5	11/18/09 15:11 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	32.1	meq/100g		0.09		SW6010B	11/20/09 00:45 / sld
Lime as CaCO3	4.4	%		0.1		USDA23c	11/17/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.3	meq/100g		0.0044		SW6010B	12/03/09 15:20 / sld
EXCHANGEABLES							
Exchangeable Sodium	1.0	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	3.1	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Chloride, sat. paste	0.22	meq/L		0.028		E300.0	11/22/09 04:58 / 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: H09110013-040
Client Sample ID: T2/YAA-10 (36-60") [36-60]

Report Date: 12/22/09
Collection Date: 10/29/09 17:00
Date Received: 11/02/09
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	11/17/09 09:11 / rrr
Conductivity, sat. paste	1.25	mmhos/cm		0.01		ASA10-3	11/18/09 08:49 / rrr
Saturation	47.1	%		0.1		USDA27a	11/17/09 08:12 / wj
Calcium, sat. paste	3.63	meq/l		0.05		SW6010B	11/19/09 12:53 / sld
Magnesium, sat. paste	2.67	meq/l		0.08		SW6010B	11/19/09 12:53 / sld
Sodium, sat. paste	6.59	meq/l		0.04		SW6010B	11/19/09 12:53 / sld
Sodium Adsorption Ratio (SAR)	3.7	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	3.40	meq/L		0.02		ASA10-3	12/08/09 20:51 / wj
PHYSICAL CHARACTERISTICS							
Sand	34	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	42	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	24	%		1		ASA15-5	11/18/09 15:11 / sah
Texture	L	unitless				ASA15-5	11/18/09 15:11 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	30.6	meq/100g		0.09		SW6010B	11/20/09 00:47 / sld
Lime as CaCO3	4.9	%		0.1		USDA23c	11/17/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.3	meq/100g		0.0044		SW6010B	12/03/09 15:23 / sld
EXCHANGEABLES							
Exchangeable Sodium	1.0	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	3.3	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Fluoride	1.9	mg/kg		0.10		E300.0	11/22/09 05:14 / hm
Chloride, sat. paste	0.20	meq/L		0.028		E300.0	11/22/09 05:14 / hm
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.04		E270.3	12/16/09 12:02 / eau
METALS, CaCl2 EXTRACTABLE							
Barium	0.30	mg/kg		0.20		SW6010B	12/04/09 13:39 / sld
Boron	0.22	mg/kg		0.20		SW6010B	12/04/09 13:39 / sld

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (Formerly Referred To As AMPP)
Lab ID: H09110013-041
Client Sample ID: T2/YAA-10 (60-96") [60-96]

Report Date: 12/22/09
Collection Date: 10/29/09 17:00
Date Received: 11/02/09
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	11/17/09 09:13 / rrr
Conductivity, sat. paste	2.89	mmhos/cm		0.01		ASA10-3	11/18/09 08:50 / rrr
Saturation	46.4	%		0.1		USDA27a	11/17/09 08:12 / wj
Calcium, sat. paste	8.13	meq/l		0.05		SW6010B	11/19/09 12:58 / sld
Magnesium, sat. paste	7.14	meq/l		0.08		SW6010B	11/19/09 12:58 / sld
Sodium, sat. paste	20.3	meq/l		0.04		SW6010B	11/19/09 12:58 / sld
Sodium Adsorption Ratio (SAR)	7.4	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	2.41	meq/L		0.02		ASA10-3	12/08/09 21:02 / wj
PHYSICAL CHARACTERISTICS							
Sand	30	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	46	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	24	%		1		ASA15-5	11/18/09 15:11 / sah
Texture	L	unitless				ASA15-5	11/18/09 15:11 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	28.6	meq/100g		0.09		SW6010B	11/20/09 00:53 / sld
Lime as CaCO3	5.2	%		0.1		USDA23c	11/17/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	2.7	meq/100g		0.0044		SW6010B	12/03/09 15:28 / sld
EXCHANGEABLES							
Exchangeable Sodium	1.8	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	6.3	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Chloride, sat. paste	0.42	meq/L		0.028		E300.0	11/22/09 06:20 / 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: H09110013-042
Client Sample ID: T2/YAA-10 (0-2") [0-2]

Report Date: 12/22/09
Collection Date: 10/29/09 17:00
Date Received: 11/02/09
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	11/17/09 09:13 / rrr
Conductivity, sat. paste	1.04	mmhos/cm		0.01		ASA10-3	11/18/09 08:51 / rrr
Saturation	62.3	%		0.1		USDA27a	11/17/09 08:13 / wj
Calcium, sat. paste	5.42	meq/l		0.05		SW6010B	11/19/09 13:00 / sld
Magnesium, sat. paste	4.00	meq/l		0.08		SW6010B	11/19/09 13:00 / sld
Sodium, sat. paste	2.26	meq/l		0.04		SW6010B	11/19/09 13:00 / sld
Sodium Adsorption Ratio (SAR)	1.0	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	8.83	meq/L		0.02		ASA10-3	12/08/09 21:08 / wj
PHYSICAL CHARACTERISTICS							
Sand	24	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	46	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	30	%		1		ASA15-5	11/18/09 15:11 / sah
Texture	CL	unitless				ASA15-5	11/18/09 15:11 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	35.3	meq/100g		0.09		SW6010B	11/20/09 01:01 / sld
Lime as CaCO3	3.9	%		0.1		USDA23c	11/17/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.45	meq/100g		0.0044		SW6010B	12/03/09 15:31 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.3	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	0.9	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Chloride, sat. paste	0.68	meq/L		0.028		E300.0	11/22/09 06:37 / hm

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 ND - Not detected at the reporting limit.