



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (Formerly Referred To As AMPP)
Lab ID: H09110013-008
Client Sample ID: T2/DA-10 (0-6") [0-6]

Report Date: 12/22/09
Collection Date: 10/28/09 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	7.6	s.u.		0.1		ASAM10-3.2	11/17/09 08:43 / rrr
Conductivity, sat. paste	1.07	mmhos/cm		0.01		ASA10-3	11/18/09 08:24 / rrr
Saturation	40.0	%		0.1		USDA27a	11/17/09 07:54 / wj
Calcium, sat. paste	5.33	meq/l		0.05		SW6010B	11/19/09 10:56 / sld
Magnesium, sat. paste	3.04	meq/l		0.08		SW6010B	11/19/09 10:56 / sld
Sodium, sat. paste	3.70	meq/l		0.04		SW6010B	11/19/09 10:56 / sld
Sodium Adsorption Ratio (SAR)	1.8	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	6.55	meq/L		0.02		ASA10-3	12/08/09 16:29 / wj
PHYSICAL CHARACTERISTICS							
Sand	48	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	38	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	14	%		1		ASA15-5	11/18/09 15:11 / sah
Texture	L	unitless				ASA15-5	11/18/09 15:11 / sah
CHEMICAL CHARACTERISTICS							
Potassium, NH4OAc Extractable	128	mg/kg		1		ASA13-3	12/21/09 11:22 / sld
Cation Exchange Capacity	15.6	meq/100g		0.09		SW6010B	11/19/09 22:44 / sld
Organic Matter	2.49	%		0.02		ASA29-3	11/17/09 11:33 / sah
Lime as CaCO3	7.0	%		0.1		USDA23c	11/17/09 00:00 / sah
Phosphorus	5.4	mg/kg		0.1		ASA24-5	11/24/09 16:08 / stp
Nitrate as N, KCL Extract	12	mg/kg		1.0		ASA38-3	12/04/09 14:26 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.41	meq/100g		0.0044		SW6010B	12/03/09 13:21 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.3	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	1.7	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Fluoride	0.92	mg/kg		0.10		E300.0	11/21/09 17:12 / hm
Sulfate, sat. paste	6.5	meq/L		0.021		E300.0	11/21/09 17:12 / hm
Chloride, sat. paste	0.30	meq/L		0.028		E300.0	11/21/09 17:12 / hm
METALS, DTPA EXTRACTABLE							
Zinc	0.83	mg/kg		0.02		SW6010B	12/17/09 18:34 / sld
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.04		E270.3	12/16/09 11:42 / eau

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: H09110013-008
Client Sample ID: T2/DA-10 (0-6") [0-6]

Report Date: 12/22/09
Collection Date: 10/28/09 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 12:43 / sld
Boron	0.24	mg/kg		0.20		SW6010B	12/04/09 12:43 / sld

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (Formerly Referred To As AMPP)
Lab ID: H09110013-009
Client Sample ID: T2/DA-10 (6-12") [6-12]

Report Date: 12/22/09
Collection Date: 10/28/09 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 08:44 / rrr
Conductivity, sat. paste	3.00	mmhos/cm		0.01		ASA10-3	11/18/09 08:24 / rrr
Saturation	36.7	%		0.1		USDA27a	11/17/09 07:54 / wj
Calcium, sat. paste	11.0	meq/l		0.05		SW6010B	11/19/09 10:59 / sld
Magnesium, sat. paste	7.08	meq/l		0.08		SW6010B	11/19/09 10:59 / sld
Sodium, sat. paste	17.3	meq/l		0.04		SW6010B	11/19/09 10:59 / sld
Sodium Adsorption Ratio (SAR)	5.8	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	4.82	meq/L		0.02		ASA10-3	12/08/09 16:34 / wj
PHYSICAL CHARACTERISTICS							
Sand	50	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	36	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	14	%		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	14.5	meq/100g		0.09		SW6010B	11/19/09 22:46 / sld
Lime as CaCO3	7.3	%		0.1		USDA23c	11/17/09 00:00 / sah
Nitrate as N, KCL Extract	6.0	mg/kg		1.0		ASA38-3	12/04/09 13:26 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.5	meq/100g		0.0044		SW6010B	12/03/09 13:23 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.8	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	5.7	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Sulfate, sat. paste	35	meq/L		0.021		E300.0	11/21/09 17:28 / hm
Chloride, sat. paste	0.41	meq/L		0.028		E300.0	11/21/09 17:28 / hm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (Formerly Referred To As AMPP)
Lab ID: H09110013-010
Client Sample ID: T2/DA-10 (12-24") [12-24]

Report Date: 12/22/09
Collection Date: 10/28/09 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 08:45 / rrr
Conductivity, sat. paste	5.53	mmhos/cm		0.01		ASA10-3	11/18/09 08:25 / rrr
Saturation	35.0	%		0.1		USDA27a	11/17/09 07:54 / wj
Calcium, sat. paste	16.8	meq/l		0.05		SW6010B	11/19/09 11:01 / sld
Magnesium, sat. paste	16.7	meq/l		0.08		SW6010B	11/19/09 11:01 / sld
Sodium, sat. paste	36.6	meq/l	D	0.09		SW6010B	11/19/09 11:01 / sld
Sodium Adsorption Ratio (SAR)	8.9	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	3.31	meq/L		0.02		ASA10-3	12/08/09 16:54 / wj
PHYSICAL CHARACTERISTICS							
Sand	52	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	36	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	12	%		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	12.8	meq/100g		0.09		SW6010B	11/19/09 22:55 / sld
Lime as CaCO3	7.4	%		0.1		USDA23c	11/17/09 00:00 / sah
Nitrate as N, KCL Extract	4.9	mg/kg		1.0		ASA38-3	12/04/09 13:28 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	2.5	meq/100g		0.0044		SW6010B	12/03/09 13:26 / sld
EXCHANGEABLES							
Exchangeable Sodium	1.3	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	9.9	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Sulfate, sat. paste	75	meq/L		0.021		E300.0	11/21/09 17:45 / hm
Chloride, sat. paste	0.69	meq/L		0.028		E300.0	11/21/09 17:45 / hm

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

D - RL increased due to sample matrix interference.

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: H09110013-011
Client Sample ID: T2/DA-10 (24-36") [24-36]

Report Date: 12/22/09
Collection Date: 10/28/09 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	8.2	s.u.		0.1		ASAM10-3.2	11/17/09 08:46 / rrr
Conductivity, sat. paste	7.67	mmhos/cm		0.01		ASA10-3	11/18/09 08:27 / rrr
Saturation	31.5	%		0.1		USDA27a	11/17/09 07:54 / wj
Calcium, sat. paste	14.2	meq/l	D	0.05		SW6010B	11/19/09 11:06 / sld
Magnesium, sat. paste	20.0	meq/l		0.08		SW6010B	11/19/09 11:06 / sld
Sodium, sat. paste	57.3	meq/l	D	0.2		SW6010B	11/19/09 11:06 / sld
Sodium Adsorption Ratio (SAR)	14	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	2.80	meq/L		0.02		ASA10-3	12/08/09 17:06 / wj
PHYSICAL CHARACTERISTICS							
Sand	60	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	28	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	12	%		1		ASA15-5	11/18/09 15:11 / sah
Texture	SL	unitless				ASA15-5	11/18/09 15:11 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	11.7	meq/100g		0.09		SW6010B	11/19/09 23:00 / sld
Lime as CaCO3	7.2	%		0.1		USDA23c	11/17/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	3.5	meq/100g		0.0044		SW6010B	12/03/09 13:31 / sld
EXCHANGEABLES							
Exchangeable Sodium	1.6	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	14	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Chloride, sat. paste	1.1	meq/L		0.028		E300.0	11/21/09 18:50 / hm

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

D - RL increased due to sample matrix interference.

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: H09110013-012
Client Sample ID: T2/DA-10 (36-60") [36-60]

Report Date: 12/22/09
Collection Date: 10/28/09 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	8.2	s.u.		0.1		ASAM10-3.2	11/17/09 08:47 / rrr
Conductivity, sat. paste	8.30	mmhos/cm		0.01		ASA10-3	11/18/09 08:27 / rrr
Saturation	30.6	%		0.1		USDA27a	11/17/09 07:55 / wj
Calcium, sat. paste	12.2	meq/l	D	0.05		SW6010B	11/19/09 11:09 / sld
Magnesium, sat. paste	19.1	meq/l		0.08		SW6010B	11/19/09 11:09 / sld
Sodium, sat. paste	70.0	meq/l	D	0.2		SW6010B	11/19/09 11:09 / sld
Sodium Adsorption Ratio (SAR)	18	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	2.89	meq/L		0.02		ASA10-3	12/08/09 17:11 / wj
PHYSICAL CHARACTERISTICS							
Sand	66	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	22	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	12	%		1		ASA15-5	11/18/09 15:11 / sah
Texture	SL	unitless				ASA15-5	11/18/09 15:11 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	11.3	meq/100g		0.09		SW6010B	11/19/09 23:02 / sld
Lime as CaCO3	6.0	%		0.1		USDA23c	11/17/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	4.1	meq/100g		0.0044		SW6010B	12/03/09 13:34 / sld
EXCHANGEABLES							
Exchangeable Sodium	2.0	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	17	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Fluoride	2.9	mg/kg		0.10		E300.0	11/21/09 19:07 / hm
Chloride, sat. paste	1.4	meq/L		0.028		E300.0	11/21/09 19:07 / hm
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.04		E270.3	12/16/09 11:44 / eau
METALS, CaCl2 EXTRACTABLE							
Barium	ND	mg/kg		0.20		SW6010B	12/04/09 12:46 / sld
Boron	0.31	mg/kg		0.20		SW6010B	12/04/09 12:46 / sld

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D - RL increased due to sample matrix interference.

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: H09110013-013
Client Sample ID: T2/DA-10 (60-96") [60-96]

Report Date: 12/22/09
Collection Date: 10/28/09 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	8.1	s.u.		0.1		ASAM10-3.2	11/17/09 08:48 / rrr
Conductivity, sat. paste	6.34	mmhos/cm		0.01		ASA10-3	11/18/09 08:28 / rrr
Saturation	30.1	%		0.1		USDA27a	11/17/09 07:55 / wj
Calcium, sat. paste	8.25	meq/l	D	0.05		SW6010B	11/19/09 11:17 / sld
Magnesium, sat. paste	12.7	meq/l		0.08		SW6010B	11/19/09 11:17 / sld
Sodium, sat. paste	54.5	meq/l	D	0.2		SW6010B	11/19/09 11:17 / sld
Sodium Adsorption Ratio (SAR)	17	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	2.08	meq/L		0.02		ASA10-3	12/08/09 17:16 / wj
PHYSICAL CHARACTERISTICS							
Sand	64	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	22	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	14	%		1		ASA15-5	11/18/09 15:11 / sah
Texture	SL	unitless				ASA15-5	11/18/09 15:11 / sah
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	11.9	meq/100g		0.09		SW6010B	11/19/09 23:10 / sld
Lime as CaCO3	6.0	%		0.1		USDA23c	11/17/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	3.5	meq/100g		0.0044		SW6010B	12/03/09 13:47 / sld
EXCHANGEABLES							
Exchangeable Sodium	1.9	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	16	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Chloride, sat. paste	1.0	meq/L		0.028		E300.0	11/21/09 19:23 / hm

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

D - RL increased due to sample matrix interference.

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: H09110013-014
Client Sample ID: T2/DA-10 (0-2") [0-2]

Report Date: 12/22/09
Collection Date: 10/28/09 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 08:48 / rrr
Conductivity, sat. paste	0.73	mmhos/cm		0.01		ASA10-3	11/18/09 08:29 / rrr
Saturation	39.3	%		0.1		USDA27a	11/17/09 07:55 / wj
Calcium, sat. paste	4.08	meq/l		0.05		SW6010B	11/19/09 11:19 / sld
Magnesium, sat. paste	2.15	meq/l		0.08		SW6010B	11/19/09 11:19 / sld
Sodium, sat. paste	1.36	meq/l		0.04		SW6010B	11/19/09 11:19 / sld
Sodium Adsorption Ratio (SAR)	0.77	unitless		0.01		Calculation	11/19/09 15:16 / wj
Bicarbonate, sat. paste	7.08	meq/L		0.02		ASA10-3	12/08/09 17:22 / wj
PHYSICAL CHARACTERISTICS							
Sand	50	%		1		ASA15-5	11/18/09 15:11 / sah
Silt	36	%		1		ASA15-5	11/18/09 15:11 / sah
Clay	14	%		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	15.7	meq/100g		0.09		SW6010B	11/19/09 23:13 / sld
Lime as CaCO3	6.8	%		0.1		USDA23c	11/17/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.15	meq/100g		0.0044		SW6010B	12/03/09 13:49 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.1	meq/100g		0.1		Calculation	11/19/09 15:16 / wj
Exchangeable Sodium Percentage	0.6	%		0.1		USDA20a	11/19/09 15:16 / wj
INORGANICS							
Chloride, sat. paste	0.15	meq/L		0.028		E300.0	11/21/09 19:40 / hm

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

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