



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP-TierII (formerly referred to as AMPP)
 Lab ID: H07090233-008
 Client Sample ID: T2/MA-10-(0-6")

Report Date: 11/01/07
 Collection Date: 09/18/07 17:00
 DateReceived: 09/20/07
 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	09/27/07 09:52 / jjm
Conductivity, sat. paste	0.86	mmhos/cm		0.01		ASAM10-3	09/27/07 09:52 / jjm
Saturation	48.0	%		0.1		USDA27a	09/27/07 09:52 / jjm
Sodium Adsorption Ratio (SAR)	0.55	unitless		0.01		Calculation	09/27/07 09:52 / jjm
Bicarbonate, sat. paste	15.2	meq/L		0.02		ASA10-3	10/08/07 16:07 / jjm
SATURATED PASTE							
Calcium, sat. paste	4.84	meq/l		0.05		SW6010B	10/09/07 16:27 / skd
Magnesium, sat. paste	2.75	meq/l		0.08		SW6010B	10/09/07 16:27 / skd
Sodium, sat. paste	1.07	meq/l		0.04		SW6010B	10/09/07 16:27 / skd
Sulfate, sat. paste	2.22	meq/L		0.02		SW6010B	10/09/07 16:27 / skd
Chloride, sat. paste	0.91	meq/L		0.03		SW6010B	10/09/07 16:27 / skd
PHYSICAL CHARACTERISTICS							
Sand	29	%		1		ASA15-5	09/27/07 09:52 / jjm
Silt	50	%		1		ASA15-5	09/27/07 09:52 / jjm
Clay	21	%		1		ASA15-5	09/27/07 09:52 / jjm
Texture	SiL	unitless				ASA15-5	09/27/07 09:52 / jjm
CHEMICAL CHARACTERISTICS							
Fluoride	ND	mg/kg		1.0		A4500-F C	10/28/07 00:00 / sld
Potassium, NH4OAc Extractable	402	meq/100g		1		ASA13-3	10/09/07 11:37 / skd
Organic Matter	2.80	%		0.02		ASA29-3	09/28/07 12:42 / jjm
Cation Exchange Capacity	24.3	meq/100g		0.09		SW6010B	10/10/07 17:23 / skd
Lime as CaCO3	8.3	%		0.1		USDA23c	09/26/07 00:00 / jjm
Phosphorus	6.3	mg/kg		0.1		ASA24-5	10/02/07 13:27 / sld
Nitrate as N, KCL Extract	18	mg/kg	D	2.5		ASA38-3	10/01/07 12:15 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.48	meq/100g		0.04		SW6010B	10/09/07 11:37 / skd
EXCHANGEABLES							
Exchangeable Sodium	0.4	meq/100g		0.1		Calculation	09/27/07 09:52 / jjm
Exchangeable Sodium Percentage	1.8	%		0.1		USDA20a	09/27/07 09:52 / jjm
METALS, WATER SOLUBLE							
Selenium	0.007	mg/kg		0.005		E270.3	10/20/07 10:14 / skd
METALS, DTPA EXTRACTABLE							
Zinc	0.22	mg/kg		0.02		SW6010B	10/10/07 11:29 / skd

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

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

D - RL increased due to sample matrix interference.



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Client: HydroSolutions Inc
Project: TRIP-TierII (formerly referred to as AMPP)
Lab ID: H07090233-008
Client Sample ID: T2/MA-10-(0-6")

Report Date: 11/01/07
Collection Date: 09/18/07 17:00
DateReceived: 09/20/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, CACL2 EXTRACTABLE							
Barium	1.2	mg/kg		0.20		SW6010B	10/10/07 09:38 / skd
Boron	0.50	mg/kg		0.20		SW6010B	10/10/07 09:38 / skd

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-TierII (formerly referred to as AMPP)
 Lab ID: H07090233-009
 Client Sample ID: T2/MA-10-(6-12")

Report Date: 11/01/07
 Collection Date: 09/18/07 17:00
 DateReceived: 09/20/07
 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	09/27/07 09:52 / jjm
Conductivity, sat. paste	0.51	mmhos/cm		0.01		ASAM10-3	09/27/07 09:52 / jjm
Saturation	44.5	%		0.1		USDA27a	09/27/07 09:52 / jjm
Sodium Adsorption Ratio (SAR)	1.1	unitless		0.01		Calculation	09/27/07 09:52 / jjm
Bicarbonate, sat. paste	4.80	meq/L		0.02		ASA10-3	10/08/07 16:07 / jjm
SATURATED PASTE							
Calcium, sat. paste	2.42	meq/l		0.05		SW6010B	10/09/07 16:30 / skd
Magnesium, sat. paste	1.60	meq/l		0.08		SW6010B	10/09/07 16:30 / skd
Sodium, sat. paste	1.52	meq/l		0.04		SW6010B	10/09/07 16:30 / skd
Sulfate, sat. paste	1.24	meq/L		0.02		SW6010B	10/09/07 16:30 / skd
Chloride, sat. paste	0.30	meq/L		0.03		SW6010B	10/09/07 16:30 / skd
PHYSICAL CHARACTERISTICS							
Sand	28	%		1		ASA15-5	09/27/07 09:52 / jjm
Silt	52	%		1		ASA15-5	09/27/07 09:52 / jjm
Clay	20	%		1		ASA15-5	09/27/07 09:52 / jjm
Texture	SiL	unitless				ASA15-5	09/27/07 09:52 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	23.8	meq/100g		0.09		SW6010B	10/10/07 17:25 / skd
Lime as CaCO3	9.4	%		0.1		USDA23c	09/26/07 00:00 / jjm
Nitrate as N, KCL Extract	5.6	mg/kg		1.0		ASA38-3	10/01/07 10:47 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.62	meq/100g		0.04		SW6010B	10/09/07 11:44 / skd
EXCHANGEABLES							
Exchangeable Sodium	0.6	meq/100g		0.1		Calculation	09/27/07 09:52 / jjm
Exchangeable Sodium Percentage	2.3	%		0.1		USDA20a	09/27/07 09:52 / jjm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP-TierII (formerly referred to as AMPP)
 Lab ID: H07090233-010
 Client Sample ID: T2/MA-10-(12-24")

Report Date: 11/01/07
 Collection Date: 09/18/07 17:00
 DateReceived: 09/20/07
 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	09/27/07 09:52 / jjm
Conductivity, sat. paste	0.68	mmhos/cm		0.01		ASAM10-3	09/27/07 09:52 / jjm
Saturation	45.1	%		0.1		USDA27a	09/27/07 09:52 / jjm
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.01		Calculation	09/27/07 09:52 / jjm
Bicarbonate, sat. paste	4.40	meq/L		0.02		ASA10-3	10/08/07 16:07 / jjm
SATURATED PASTE							
Calcium, sat. paste	2.35	meq/l		0.05		SW6010B	10/09/07 16:32 / skd
Magnesium, sat. paste	2.55	meq/l		0.08		SW6010B	10/09/07 16:32 / skd
Sodium, sat. paste	2.29	meq/l		0.04		SW6010B	10/09/07 16:32 / skd
Sulfate, sat. paste	3.23	meq/L		0.02		SW6010B	10/09/07 16:32 / skd
Chloride, sat. paste	0.30	meq/L		0.03		SW6010B	10/09/07 16:32 / skd
PHYSICAL CHARACTERISTICS							
Sand	31	%		1		ASA15-5	09/27/07 09:52 / jjm
Silt	47	%		1		ASA15-5	09/27/07 09:52 / jjm
Clay	22	%		1		ASA15-5	09/27/07 09:52 / jjm
Texture	L	unitless				ASA15-5	09/27/07 09:52 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	20.3	meq/100g		0.09		SW6010B	10/10/07 17:28 / skd
Lime as CaCO3	10.5	%		0.1		USDA23c	09/26/07 00:00 / jjm
Nitrate as N, KCL Extract	5.2	mg/kg		1.0		ASA38-3	10/01/07 10:49 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.77	meq/100g		0.04		SW6010B	10/09/07 11:47 / skd
EXCHANGEABLES							
Exchangeable Sodium	0.7	meq/100g		0.1		Calculation	09/27/07 09:52 / jjm
Exchangeable Sodium Percentage	3.3	%		0.1		USDA20a	09/27/07 09:52 / jjm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP-TierII (formerly referred to as AMPP)
 Lab ID: H07090233-011
 Client Sample ID: T2/MA-10-(24-36")

Report Date: 11/01/07
 Collection Date: 09/18/07 17:00
 DateReceived: 09/20/07
 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	09/27/07 09:52 / jjm
Conductivity, sat. paste	2.81	mmhos/cm		0.01		ASAM10-3	09/27/07 09:52 / jjm
Saturation	41.6	%		0.1		USDA27a	09/27/07 09:52 / jjm
Sodium Adsorption Ratio (SAR)	2.7	unitless		0.01		Calculation	09/27/07 09:52 / jjm
Bicarbonate, sat. paste	3.20	meq/L		0.02		ASA10-3	10/08/07 16:07 / jjm
SATURATED PASTE							
Calcium, sat. paste	8.76	meq/l		0.05		SW6010B	10/09/07 16:42 / skd
Magnesium, sat. paste	18.0	meq/l		0.08		SW6010B	10/09/07 16:42 / skd
Sodium, sat. paste	9.89	meq/l		0.04		SW6010B	10/09/07 16:42 / skd
Chloride, sat. paste	0.60	meq/L		0.03		SW6010B	10/09/07 16:42 / skd
PHYSICAL CHARACTERISTICS							
Sand	32	%		1		ASA15-5	09/27/07 09:52 / jjm
Silt	50	%		1		ASA15-5	09/27/07 09:52 / jjm
Clay	18	%		1		ASA15-5	09/27/07 09:52 / jjm
Texture	SiL	unitless				ASA15-5	09/27/07 09:52 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	19.4	meq/100g		0.09		SW6010B	10/10/07 17:38 / skd
Lime as CaCO3	10.5	%		0.1		USDA23c	09/26/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.52	meq/100g		0.04		SW6010B	10/09/07 11:52 / skd
EXCHANGEABLES							
Exchangeable Sodium	1.1	meq/100g		0.1		Calculation	09/27/07 09:52 / jjm
Exchangeable Sodium Percentage	5.7	%		0.1		USDA20a	09/27/07 09:52 / jjm

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-TierII (formerly referred to as AMPP)
 Lab ID: H07090233-012
 Client Sample ID: T2/MA-10-(36-60")

Report Date: 11/01/07
 Collection Date: 09/18/07 17:00
 Date Received: 09/20/07
 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	09/27/07 09:52 / jjm
Conductivity, sat. paste	3.04	mmhos/cm		0.01		ASAM10-3	09/27/07 09:52 / jjm
Saturation	41.2	%		0.1		USDA27a	09/27/07 09:52 / jjm
Sodium Adsorption Ratio (SAR)	3.7	unitless		0.01		Calculation	09/27/07 09:52 / jjm
Bicarbonate, sat. paste	2.80	meq/L		0.02		ASA10-3	10/08/07 16:07 / jjm
SATURATED PASTE							
Calcium, sat. paste	6.55	meq/l		0.05		SW6010B	10/09/07 16:45 / skd
Magnesium, sat. paste	19.5	meq/l		0.08		SW6010B	10/09/07 16:45 / skd
Sodium, sat. paste	13.3	meq/l		0.04		SW6010B	10/09/07 16:45 / skd
Chloride, sat. paste	1.27	meq/L		0.03		SW6010B	10/09/07 16:45 / skd
PHYSICAL CHARACTERISTICS							
Sand	38	%		1		ASA15-5	09/27/07 09:52 / jjm
Silt	46	%		1		ASA15-5	09/27/07 09:52 / jjm
Clay	16	%		1		ASA15-5	09/27/07 09:52 / jjm
Texture	L	unitless				ASA15-5	09/27/07 09:52 / jjm
CHEMICAL CHARACTERISTICS							
Fluoride	1.1	mg/kg		1.0		A4500-F C	10/28/07 00:00 / sld
Cation Exchange Capacity	16.9	meq/100g		0.09		SW6010B	10/10/07 17:40 / skd
Lime as CaCO3	10.8	%		0.1		USDA23c	09/26/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.74	meq/100g		0.04		SW6010B	10/09/07 11:54 / skd
EXCHANGEABLES							
Exchangeable Sodium	1.2	meq/100g		0.1		Calculation	09/27/07 09:52 / jjm
Exchangeable Sodium Percentage	7.0	%		0.1		USDA20a	09/27/07 09:52 / jjm
METALS, WATER SOLUBLE							
Selenium	0.063	mg/kg		0.005		E270.3	10/20/07 10:16 / skd
METALS, CaCl2 EXTRACTABLE							
Barium	ND	mg/kg		0.20		SW6010B	10/10/07 09:41 / skd
Boron	0.47	mg/kg		0.20		SW6010B	10/10/07 09:41 / skd

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP-TierII (formerly referred to as AMPP)
 Lab ID: H07090233-013
 Client Sample ID: T2/MA-10-(60-96")

Report Date: 11/01/07
 Collection Date: 09/18/07 17:00
 DateReceived: 09/20/07
 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	09/27/07 09:52 / jjm
Conductivity, sat. paste	1.45	mmhos/cm		0.01		ASAM10-3	09/27/07 09:52 / jjm
Saturation	31.8	%		0.1		USDA27a	09/27/07 09:52 / jjm
Sodium Adsorption Ratio (SAR)	2.3	unitless		0.01		Calculation	09/27/07 09:52 / jjm
Bicarbonate, sat. paste	2.80	meq/L		0.02		ASA10-3	10/08/07 16:07 / jjm
SATURATED PASTE							
Calcium, sat. paste	4.07	meq/l		0.05		SW6010B	10/09/07 16:48 / skd
Magnesium, sat. paste	6.60	meq/l		0.08		SW6010B	10/09/07 16:48 / skd
Sodium, sat. paste	5.27	meq/l		0.04		SW6010B	10/09/07 16:48 / skd
Chloride, sat. paste	0.56	meq/L		0.03		SW6010B	10/09/07 16:48 / skd
PHYSICAL CHARACTERISTICS							
Sand	58	%		1		ASA15-5	09/27/07 09:52 / jjm
Silt	30	%		1		ASA15-5	09/27/07 09:52 / jjm
Clay	12	%		1		ASA15-5	09/27/07 09:52 / jjm
Texture	SL	unitless				ASA15-5	09/27/07 09:52 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	13.8	meq/100g		0.09		SW6010B	10/10/07 17:43 / skd
Lime as CaCO3	8.6	%		0.1		USDA23c	09/26/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.82	meq/100g		0.04		SW6010B	10/09/07 11:57 / skd
EXCHANGEABLES							
Exchangeable Sodium	0.6	meq/100g		0.1		Calculation	09/27/07 09:52 / jjm
Exchangeable Sodium Percentage	4.7	%		0.1		USDA20a	09/27/07 09:52 / jjm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP-TierII (formerly referred to as AMPP)
 Lab ID: H07090233-014
 Client Sample ID: T2/MA-10-(0-2")

Report Date: 11/01/07
 Collection Date: 09/18/07 17:00
 Date Received: 09/20/07
 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	09/27/07 09:52 / jjm
Conductivity, sat. paste	0.92	mmhos/cm		0.01		ASAM10-3	09/27/07 09:52 / jjm
Saturation	46.3	%		0.1		USDA27a	09/27/07 09:52 / jjm
Sodium Adsorption Ratio (SAR)	0.39	unitless		0.01		Calculation	09/27/07 09:52 / jjm
Bicarbonate, sat. paste	6.79	meq/L		0.02		ASA10-3	10/08/07 16:07 / jjm
SATURATED PASTE							
Calcium, sat. paste	4.72	meq/l		0.05		SW6010B	10/09/07 16:50 / skd
Magnesium, sat. paste	2.98	meq/l		0.08		SW6010B	10/09/07 16:50 / skd
Sodium, sat. paste	0.76	meq/l		0.04		SW6010B	10/09/07 16:50 / skd
Chloride, sat. paste	0.70	meq/L		0.03		SW6010B	10/09/07 16:50 / skd
PHYSICAL CHARACTERISTICS							
Sand	29	%		1		ASA15-5	09/27/07 09:52 / jjm
Silt	51	%		1		ASA15-5	09/27/07 09:52 / jjm
Clay	20	%		1		ASA15-5	09/27/07 09:52 / jjm
Texture	SiL	unitless				ASA15-5	09/27/07 09:52 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	24.3	meq/100g		0.09		SW6010B	10/10/07 17:45 / skd
Lime as CaCO3	8.3	%		0.1		USDA23c	09/26/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.48	meq/100g		0.04		SW6010B	10/09/07 12:00 / skd
EXCHANGEABLES							
Exchangeable Sodium	0.4	meq/100g		0.1		Calculation	09/27/07 09:52 / jjm
Exchangeable Sodium Percentage	1.8	%		0.1		USDA20a	09/27/07 09:52 / jjm

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

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