



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
 Project: TRIP - TierII (formerly referred to as AMPP)  
 Lab ID: H07090277-008  
 Client Sample ID: T2/GC10-(0-6")

Report Date: 11/01/07  
 Collection Date: 09/19/07 17:00  
 Date Received: 09/24/07  
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	7.6	s.u.		0.1		ASAM10-3.2	10/05/07 15:04 / jjm
Conductivity, sat. paste	0.84	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	53.4	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	0.76	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	4.40	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	4.64	meq/l		0.05		SW6010B	10/15/07 08:36 / skd
Magnesium, sat. paste	2.77	meq/l		0.08		SW6010B	10/15/07 08:36 / skd
Sodium, sat. paste	1.47	meq/l		0.04		SW6010B	10/15/07 08:36 / skd
Sulfate, sat. paste	1.97	meq/l		0.02		SW6010B	10/15/07 08:36 / skd
Chloride, sat. paste	0.70	meq/L		0.03		SW6010B	10/15/07 08:36 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	10	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	54	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	36	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	SiCL	unitless				ASA15-5	10/05/07 15:04 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Fluoride	ND	mg/kg		1.0		A4500-F C	10/28/07 00:00 / sld
Potassium, NH4OAc Extractable	203	meq/100g		1		ASA13-3	10/12/07 12:49 / skd
Organic Matter	3.42	%		0.02		ASA29-3	09/28/07 12:42 / jjm
Cation Exchange Capacity	34.1	meq/100g		0.09		SW6010B	10/16/07 10:47 / skd
Lime as CaCO3	7.8	%		0.1		USDA23c	10/04/07 00:00 / jjm
Phosphorus	8.8	mg/kg		0.1		ASA24-5	10/02/07 13:30 / sld
Nitrate as N, KCL Extract	32	mg/kg	D	2.5		ASA38-3	10/01/07 12:21 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.61	meq/100g		0.04		SW6010B	10/12/07 12:49 / skd
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.5	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	1.6	%		0.1		USDA20a	10/05/07 15:04 / jjm
<b>METALS, WATER SOLUBLE</b>							
Selenium	0.008	mg/kg		0.005		E270.3	10/20/07 10:24 / skd
<b>METALS, DTPA EXTRACTABLE</b>							
Zinc	0.37	mg/kg		0.02		SW6010B	10/10/07 11:48 / 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.



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
Project: TRIP - TierII (formerly referred to as AMPP)  
Lab ID: H07090277-008  
Client Sample ID: T2/GC10-(0-6")

Report Date: 11/01/07  
Collection Date: 09/19/07 17:00  
DateReceived: 09/24/07  
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, CACL2 EXTRACTABLE</b>							
Barium	1.1	mg/kg		0.20		SW6010B	10/10/07 10:05 / skd
Boron	0.31	mg/kg		0.20		SW6010B	10/10/07 10:05 / skd

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: H07090277-009  
 Client Sample ID: T2/GC10-(6-12")

Report Date: 11/01/07  
 Collection Date: 09/19/07 17:00  
 DateReceived: 09/24/07  
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	7.7	s.u.		0.1		ASAM10-3.2	10/05/07 15:04 / jjm
Conductivity, sat. paste	0.66	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	52.6	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	0.89	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	4.99	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	3.40	meq/l		0.05		SW6010B	10/15/07 08:39 / skd
Magnesium, sat. paste	2.15	meq/l		0.08		SW6010B	10/15/07 08:39 / skd
Sodium, sat. paste	1.48	meq/l		0.04		SW6010B	10/15/07 08:39 / skd
Sulfate, sat. paste	1.63	meq/l		0.02		SW6010B	10/15/07 08:39 / skd
Chloride, sat. paste	0.35	meq/L		0.03		SW6010B	10/15/07 08:39 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	12	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	53	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	35	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	SiCL	unitless				ASA15-5	10/05/07 15:04 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	30.2	meq/100g		0.09		SW6010B	10/16/07 10:50 / skd
Lime as CaCO3	7.8	%		0.1		USDA23c	10/04/07 00:00 / jjm
Nitrate as N, KCL Extract	22	mg/kg	D	2.5		ASA38-3	10/01/07 12:23 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.67	meq/100g		0.04		SW6010B	10/12/07 12:56 / skd
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.6	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	2.0	%		0.1		USDA20a	10/05/07 15:04 / jjm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
 Project: TRIP - TierII (formerly referred to as AMPP)  
 Lab ID: H07090277-010  
 Client Sample ID: T2/GC10-(12-24")

Report Date: 11/01/07  
 Collection Date: 09/19/07 17:00  
 Date Received: 09/24/07  
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	7.9	s.u.		0.1		ASAM10-3.2	10/05/07 15:04 / jjm
Conductivity, sat. paste	0.72	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	47.4	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	1.4	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	3.60	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	3.14	meq/l		0.05		SW6010B	10/15/07 08:47 / skd
Magnesium, sat. paste	2.24	meq/l		0.08		SW6010B	10/15/07 08:47 / skd
Sodium, sat. paste	2.34	meq/l		0.04		SW6010B	10/15/07 08:47 / skd
Sulfate, sat. paste	2.37	meq/l		0.02		SW6010B	10/15/07 08:47 / skd
Chloride, sat. paste	0.40	meq/L		0.03		SW6010B	10/15/07 08:47 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	15	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	52	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	33	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	SiCL	unitless				ASA15-5	10/05/07 15:04 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	27.9	meq/100g		0.09		SW6010B	10/16/07 10:53 / skd
Lime as CaCO3	8.3	%		0.1		USDA23c	10/04/07 00:00 / jjm
Nitrate as N, KCL Extract	14	mg/kg		1.0		ASA38-3	10/01/07 12:25 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.75	meq/100g		0.04		SW6010B	10/12/07 12:59 / skd
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.6	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	2.3	%		0.1		USDA20a	10/05/07 15:04 / jjm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
 Project: TRIP - TierII (formerly referred to as AMPP)  
 Lab ID: H07090277-011  
 Client Sample ID: T2/GC10-(24-36")

Report Date: 11/01/07  
 Collection Date: 09/19/07 17:00  
 DateReceived: 09/24/07  
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	8.0	s.u.		0.1		ASAM10-3.2	10/05/07 15:04 / jjm
Conductivity, sat. paste	0.85	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	45.2	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	1.6	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	3.50	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	3.49	meq/l		0.05		SW6010B	10/15/07 08:52 / skd
Magnesium, sat. paste	2.58	meq/l		0.08		SW6010B	10/15/07 08:52 / skd
Sodium, sat. paste	2.84	meq/l		0.04		SW6010B	10/15/07 08:52 / skd
Chloride, sat. paste	0.53	meq/L		0.03		SW6010B	10/15/07 08:52 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	18	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	52	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	30	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	SiCL	unitless				ASA15-5	10/05/07 15:04 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	26.6	meq/100g		0.09		SW6010B	10/16/07 10:58 / skd
Lime as CaCO3	8.0	%		0.1		USDA23c	10/04/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.82	meq/100g		0.04		SW6010B	10/12/07 13:04 / skd
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.7	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	2.6	%		0.1		USDA20a	10/05/07 15:04 / jjm

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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: H07090277-012  
 Client Sample ID: T2/GC10-(36-60")

Report Date: 11/01/07  
 Collection Date: 09/19/07 17:00  
 DateReceived: 09/24/07  
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	7.9	s.u.		0.1		ASAM10-3.2	10/05/07 15:04 / jjm
Conductivity, sat. paste	1.19	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	31.2	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	3.20	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	5.50	meq/l		0.05		SW6010B	10/15/07 08:55 / skd
Magnesium, sat. paste	4.09	meq/l		0.08		SW6010B	10/15/07 08:55 / skd
Sodium, sat. paste	3.35	meq/l		0.04		SW6010B	10/15/07 08:55 / skd
Chloride, sat. paste	1.41	meq/L		0.03		SW6010B	10/15/07 08:55 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	50	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	34	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	16	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	L	unitless				ASA15-5	10/05/07 15:04 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Fluoride	ND	mg/kg		1.0		A4500-F C	10/28/07 00:00 / sid
Cation Exchange Capacity	17.3	meq/100g		0.09		SW6010B	10/16/07 11:06 / skd
Lime as CaCO3	7.1	%		0.1		USDA23c	10/04/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.69	meq/100g		0.04		SW6010B	10/12/07 13:06 / skd
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.6	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	3.4	%		0.1		USDA20a	10/05/07 15:04 / jjm
<b>METALS, WATER SOLUBLE</b>							
Selenium	ND	mg/kg		0.005		E270.3	10/20/07 10:25 / skd
<b>METALS, CACL2 EXTRACTABLE</b>							
Barium	0.41	mg/kg		0.20		SW6010B	10/10/07 10:08 / skd
Boron	ND	mg/kg		0.20		SW6010B	10/10/07 10:08 / skd

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
 Project: TRIP - TierII (formerly referred to as AMPP)  
 Lab ID: H07090277-013  
 Client Sample ID: T2/GC10-(60-96")

Report Date: 11/01/07  
 Collection Date: 09/19/07 17:00  
 DateReceived: 09/24/07  
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	7.8	s.u.		0.1		ASAM10-3.2	10/05/07 15:04 / jjm
Conductivity, sat. paste	0.99	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	24.9	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	1.1	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	2.50	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	4.42	meq/l		0.05		SW6010B	10/15/07 08:58 / skd
Magnesium, sat. paste	3.34	meq/l		0.08		SW6010B	10/15/07 08:58 / skd
Sodium, sat. paste	2.24	meq/l		0.04		SW6010B	10/15/07 08:58 / skd
Chloride, sat. paste	0.85	meq/L		0.03		SW6010B	10/15/07 08:58 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	73	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	17	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	10	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	SL	unitless				ASA15-5	10/05/07 15:04 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	13.4	meq/100g		0.09		SW6010B	10/16/07 11:09 / skd
Lime as CaCO3	6.0	%		0.1		USDA23c	10/04/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.56	meq/100g		0.04		SW6010B	10/12/07 13:09 / skd
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.5	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	3.7	%		0.1		USDA20a	10/05/07 15:04 / jjm

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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: H07090277-014  
 Client Sample ID: T2/GC10-(0-2")

Report Date: 11/01/07  
 Collection Date: 09/19/07 17:00  
 Date Received: 09/24/07  
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	7.8	s.u.		0.1		ASAM10-3.2	10/05/07 15:04 / jjm
Conductivity, sat. paste	0.70	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	58.7	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	0.80	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	5.99	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	3.97	meq/l		0.05		SW6010B	10/15/07 09:00 / skd
Magnesium, sat. paste	2.36	meq/l		0.08		SW6010B	10/15/07 09:00 / skd
Sodium, sat. paste	1.42	meq/l		0.04		SW6010B	10/15/07 09:00 / skd
Chloride, sat. paste	0.53	meq/L		0.03		SW6010B	10/15/07 09:00 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	10	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	53	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	37	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	SiCL	unitless				ASA15-5	10/05/07 15:04 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	30.4	meq/100g		0.09		SW6010B	10/16/07 11:11 / skd
Lime as CaCO3	7.8	%		0.1		USDA23c	10/04/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.58	meq/100g		0.04		SW6010B	10/12/07 13:12 / skd
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.5	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	1.6	%		0.1		USDA20a	10/05/07 15:04 / jjm

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

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