

LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP - TierII (formerly referred to as AMPP)
Lab ID: H07090277-036
Client Sample ID: T2/DA-10-(0-6") [0-6]

Report Date: 11/01/07
Collection Date: 09/20/07 17:00
Date Received: 09/24/07
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	10/05/07 15:04 / jjm
Conductivity, sat. paste	1.59	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	37.4	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	1.8	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	5.49	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
SATURATED PASTE							
Calcium, sat. paste	7.83	meq/l		0.05		SW6010B	10/15/07 10:31 / skd
Magnesium, sat. paste	4.81	meq/l		0.08		SW6010B	10/15/07 10:31 / skd
Sodium, sat. paste	4.66	meq/l		0.04		SW6010B	10/15/07 10:31 / skd
Sulfate, sat. paste	12.5	meq/l		0.02		SW6010B	10/15/07 10:31 / skd
Chloride, sat. paste	0.70	meq/L		0.03		SW6010B	10/15/07 10:31 / skd
PHYSICAL CHARACTERISTICS							
Sand	50	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	39	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	11	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	L	unitless				ASA15-5	10/05/07 15:04 / jjm
CHEMICAL CHARACTERISTICS							
Fluoride	ND	mg/kg		1.0		A4500-F C	10/28/07 00:00 / sld
Potassium, NH4OAc Extractable	184	meq/100g		1		ASA13-3	10/12/07 14:38 / skd
Organic Matter	2.17	%		0.02		ASA29-3	09/28/07 12:42 / jjm
Cation Exchange Capacity	19.1	meq/100g		0.09		SW6010B	10/16/07 12:42 / skd
Lime as CaCO3	6.6	%		0.1		USDA23c	10/04/07 00:00 / jjm
Phosphorus	8.6	mg/kg		0.1		ASA24-5	10/02/07 13:35 / sld
Nitrate as N, KCL Extract	8.4	mg/kg		1.0		ASA38-3	10/01/07 11:39 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.70	meq/100g		0.04		SW6010B	10/12/07 14:38 / skd
EXCHANGEABLES							
Exchangeable Sodium	0.5	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	2.8	%		0.1		USDA20a	10/05/07 15:04 / jjm
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.005		E270.3	10/20/07 10:43 / skd
METALS, DTPA EXTRACTABLE							
Zinc	0.42	mg/kg		0.02		SW6010B	10/10/07 11:58 / skd

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 - TierII (formerly referred to as AMPP)
Lab ID: H07090277-036
Client Sample ID: T2/DA-10-(0-6") [0-6]

Report Date: 11/01/07
Collection Date: 09/20/07 17:00
DateReceived: 09/24/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, CACL2 EXTRACTABLE							
Barium	0.77	mg/kg		0.20		SW6010B	10/10/07 10:32 / skd
Boron	0.30	mg/kg		0.20		SW6010B	10/10/07 10:32 / skd

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP - TierII (formerly referred to as AMPP)
Lab ID: H07090277-037
Client Sample ID: T2/DA-10-(6-12") [6-12]

Report Date: 11/01/07
Collection Date: 09/20/07 17:00
Date Received: 09/24/07
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	10/05/07 15:04 / jjm
Conductivity, sat. paste	1.45	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	37.0	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	2.6	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	4.20	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
SATURATED PASTE							
Calcium, sat. paste	6.12	meq/l		0.05		SW6010B	10/15/07 10:33 / skd
Magnesium, sat. paste	3.98	meq/l		0.08		SW6010B	10/15/07 10:33 / skd
Sodium, sat. paste	5.92	meq/l		0.04		SW6010B	10/15/07 10:33 / skd
Sulfate, sat. paste	12.5	meq/l		0.02		SW6010B	10/15/07 10:33 / skd
Chloride, sat. paste	0.40	meq/L		0.03		SW6010B	10/15/07 10:33 / skd
PHYSICAL CHARACTERISTICS							
Sand	51	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	39	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	10	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	L	unitless				ASA15-5	10/05/07 15:04 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	17.3	meq/100g		0.09		SW6010B	10/16/07 12:45 / skd
Lime as CaCO3	7.0	%		0.1		USDA23c	10/04/07 00:00 / jjm
Nitrate as N, KCL Extract	5.2	mg/kg		1.0		ASA38-3	10/01/07 11:41 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.97	meq/100g		0.04		SW6010B	10/12/07 14:41 / skd
EXCHANGEABLES							
Exchangeable Sodium	0.8	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	4.3	%		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: H07090277-038
Client Sample ID: T2/DA-10-(12-24") [12-24]

Report Date: 11/01/07
Collection Date: 09/20/07 17:00
Date Received: 09/24/07
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	10/05/07 15:04 / jjm
Conductivity, sat. paste	7.66	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	36.2	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	17	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	2.83	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
SATURATED PASTE							
Calcium, sat. paste	16.8	meq/l		0.05		SW6010B	10/15/07 10:36 / skd
Magnesium, sat. paste	17.7	meq/l		0.08		SW6010B	10/15/07 10:36 / skd
Sodium, sat. paste	69.9	meq/l		0.04		SW6010B	10/15/07 10:36 / skd
Sulfate, sat. paste	105	meq/l		0.02		SW6010B	10/15/07 10:36 / skd
Chloride, sat. paste	1.64	meq/L		0.03		SW6010B	10/15/07 10:36 / skd
PHYSICAL CHARACTERISTICS							
Sand	50	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	40	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	10	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	L	unitless				ASA15-5	10/05/07 15:04 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	16.1	meq/100g		0.09		SW6010B	10/16/07 12:48 / skd
Lime as CaCO3	7.1	%		0.1		USDA23c	10/04/07 00:00 / jjm
Nitrate as N, KCL Extract	6.0	mg/kg		1.0		ASA38-3	10/01/07 11:43 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	5.07	meq/100g		0.04		SW6010B	10/12/07 14:43 / skd
EXCHANGEABLES							
Exchangeable Sodium	2.5	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	16	%		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: H07090277-039
Client Sample ID: T2/DA-10-(24-36") [24-36]

Report Date: 11/01/07
Collection Date: 09/20/07 17:00
Date Received: 09/24/07
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	10/05/07 15:04 / jjm
Conductivity, sat. paste	0.91	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	51.6	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	1.7	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	4.00	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
SATURATED PASTE							
Calcium, sat. paste	3.28	meq/l		0.05		SW6010B	10/15/07 10:39 / skd
Magnesium, sat. paste	2.22	meq/l		0.08		SW6010B	10/15/07 10:39 / skd
Sodium, sat. paste	2.86	meq/l		0.04		SW6010B	10/15/07 10:39 / skd
Chloride, sat. paste	1.23	meq/L		0.03		SW6010B	10/15/07 10:39 / skd
PHYSICAL CHARACTERISTICS							
Sand	20	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	55	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	25	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	SiL	unitless				ASA15-5	10/05/07 15:04 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	28.9	meq/100g		0.09		SW6010B	10/16/07 12:50 / skd
Lime as CaCO3	6.6	%		0.1		USDA23c	10/04/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.75	meq/100g		0.04		SW6010B	10/15/07 14:41 / skd
EXCHANGEABLES							
Exchangeable Sodium	0.6	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	2.1	%		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: H07090277-040
Client Sample ID: T2/DA-10-(36-60") [36-60]

Report Date: 11/01/07
Collection Date: 09/20/07 17:00
Date Received: 09/24/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	8.4	s.u.		0.1		ASAM10-3.2	10/05/07 15:04 / jjm
Conductivity, sat. paste	16.5	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	36.8	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	33	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	2.40	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
SATURATED PASTE							
Calcium, sat. paste	18.0	meq/l		0.05		SW6010B	10/19/07 14:48 / skd
Magnesium, sat. paste	31.4	meq/l		0.08		SW6010B	10/19/07 14:48 / skd
Sodium, sat. paste	162	meq/l		0.04		SW6010B	10/19/07 14:48 / skd
Chloride, sat. paste	2.56	meq/L		0.03		SW6010B	10/15/07 10:41 / skd
PHYSICAL CHARACTERISTICS							
Sand	52	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	34	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	14	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	L	unitless				ASA15-5	10/05/07 15:04 / jjm
CHEMICAL CHARACTERISTICS							
Fluoride	1.2	mg/kg		1.0		A4500-F C	10/28/07 00:00 / sld
Cation Exchange Capacity	17.3	meq/100g		0.09		SW6010B	10/16/07 12:53 / skd
Lime as CaCO3	6.3	%		0.1		USDA23c	10/04/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	8.86	meq/100g		0.04		SW6010B	10/12/07 14:48 / skd
EXCHANGEABLES							
Exchangeable Sodium	2.9	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	17	%		0.1		USDA20a	10/05/07 15:04 / jjm
METALS, WATER SOLUBLE							
Selenium	0.006	mg/kg		0.005		E270.3	10/20/07 10:45 / skd
METALS, CACL2 EXTRACTABLE							
Barium	ND	mg/kg		0.20		SW6010B	10/10/07 10:34 / skd
Boron	0.67	mg/kg		0.20		SW6010B	10/10/07 10:34 / skd

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP - TierII (formerly referred to as AMPP)
Lab ID: H07090277-041
Client Sample ID: T2/DA-10-(60-96") [60-96]

Report Date: 11/01/07
Collection Date: 09/20/07 17:00
Date Received: 09/24/07
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	10/05/07 15:04 / jjm
Conductivity, sat. paste	7.59	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	29.7	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	20	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
SATURATED PASTE							
Calcium, sat. paste	9.03	meq/l		0.05		SW6010B	10/15/07 10:47 / skd
Magnesium, sat. paste	12.4	meq/l		0.08		SW6010B	10/15/07 10:47 / skd
Sodium, sat. paste	64.7	meq/l		0.04		SW6010B	10/15/07 10:47 / skd
Chloride, sat. paste	1.69	meq/L		0.03		SW6010B	10/15/07 10:47 / skd
PHYSICAL CHARACTERISTICS							
Sand	68	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	24	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	8	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	SL	unitless				ASA15-5	10/05/07 15:04 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	14.6	meq/100g		0.09		SW6010B	10/16/07 12:58 / skd
Lime as CaCO3	5.5	%		0.1		USDA23c	10/04/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	4.39	meq/100g		0.04		SW6010B	10/12/07 14:59 / skd
EXCHANGEABLES							
Exchangeable Sodium	2.5	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	17	%		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: H07090277-042
Client Sample ID: T2/DA-10-(0-2") [0-2]

Report Date: 11/01/07
Collection Date: 09/20/07 17:00
Date Received: 09/24/07
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	10/05/07 15:04 / jjm
Conductivity, sat. paste	1.03	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	38.2	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	1.7	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	7.42	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
SATURATED PASTE							
Calcium, sat. paste	3.87	meq/l		0.05		SW6010B	10/15/07 10:55 / skd
Magnesium, sat. paste	2.94	meq/l		0.08		SW6010B	10/15/07 10:55 / skd
Sodium, sat. paste	3.10	meq/l		0.04		SW6010B	10/15/07 10:55 / skd
Chloride, sat. paste	0.47	meq/L		0.03		SW6010B	10/15/07 10:55 / skd
PHYSICAL CHARACTERISTICS							
Sand	53	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	37	%		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
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	18.4	meq/100g		0.09		SW6010B	10/16/07 13:01 / skd
Lime as CaCO3	6.5	%		0.1		USDA23c	10/04/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.52	meq/100g		0.04		SW6010B	10/12/07 15:01 / skd
EXCHANGEABLES							
Exchangeable Sodium	0.4	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	2.2	%		0.1		USDA20a	10/05/07 15:04 / jjm

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