



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
 Project: TRIP-TierII (formerly referred to as AMPP)  
 Lab ID: H07090233-015  
 Client Sample ID: T2/MB-10-(0-6")

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
<b>SATURATED PASTE</b>							
pH, sat. paste	7.6	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	42.9	%		0.1		USDA27a	09/27/07 09:52 / jjm
Sodium Adsorption Ratio (SAR)	0.41	unitless		0.01		Calculation	09/27/07 09:52 / jjm
Bicarbonate, sat. paste	3.60	meq/L		0.02		ASA10-3	10/08/07 16:07 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	2.74	meq/l		0.05		SW6010B	10/09/07 16:53 / skd
Magnesium, sat. paste	2.04	meq/l		0.08		SW6010B	10/09/07 16:53 / skd
Sodium, sat. paste	0.64	meq/l		0.04		SW6010B	10/09/07 16:53 / skd
Sulfate, sat. paste	1.34	meq/L		0.02		SW6010B	10/09/07 16:53 / skd
Chloride, sat. paste	0.81	meq/L		0.03		SW6010B	10/09/07 16:53 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	29	%		1		ASA15-5	09/27/07 09:52 / jjm
Silt	43	%		1		ASA15-5	09/27/07 09:52 / jjm
Clay	28	%		1		ASA15-5	09/27/07 09:52 / jjm
Texture	CL	unitless				ASA15-5	09/27/07 09:52 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Fluoride	ND	mg/kg		1.0		A4500-F C	10/28/07 00:00 / sld
Potassium, NH4OAc Extractable	379	meq/100g		1		ASA13-3	10/09/07 12:02 / skd
Organic Matter	1.64	%		0.02		ASA29-3	09/28/07 12:42 / jjm
Cation Exchange Capacity	24.7	meq/100g		0.09		SW6010B	10/10/07 17:48 / skd
Lime as CaCO3	0.4	%		0.1		USDA23c	09/26/07 00:00 / jjm
Phosphorus	0.5	mg/kg		0.1		ASA24-5	10/02/07 13:28 / sld
Nitrate as N, KCL Extract	8.8	mg/kg		1.0		ASA38-3	10/01/07 10:53 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.46	meq/100g		0.04		SW6010B	10/09/07 12:02 / skd
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.4	meq/100g		0.1		Calculation	09/27/07 09:52 / jjm
Exchangeable Sodium Percentage	1.7	%		0.1		USDA20a	09/27/07 09:52 / jjm
<b>METALS, WATER SOLUBLE</b>							
Selenium	0.006	mg/kg		0.005		E270.3	10/20/07 10:17 / skd
<b>METALS, DTPA EXTRACTABLE</b>							
Zinc	0.07	mg/kg		0.02		SW6010B	10/10/07 11:32 / 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: H07090233-015  
Client Sample ID: T2/MB-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
<b>METALS, CACL2 EXTRACTABLE</b>							
Barium	0.79	mg/kg		0.20		SW6010B	10/10/07 09:44 / skd
Boron	0.34	mg/kg		0.20		SW6010B	10/10/07 09:44 / skd

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

Client: HydroSolutions Inc  
 Project: TRIP-TierII (formerly referred to as AMPP)  
 Lab ID: H07090233-016  
 Client Sample ID: T2/MB-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
<b>SATURATED PASTE</b>							
pH, sat. paste	7.8	s.u.		0.1		ASAM10-3.2	09/27/07 09:52 / jjm
Conductivity, sat. paste	0.60	mmhos/cm		0.01		ASAM10-3	09/27/07 09:52 / jjm
Saturation	46.1	%		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	4.00	meq/L		0.02		ASA10-3	10/08/07 16:07 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	2.38	meq/l		0.05		SW6010B	10/09/07 17:00 / skd
Magnesium, sat. paste	2.52	meq/l		0.08		SW6010B	10/09/07 17:00 / skd
Sodium, sat. paste	1.71	meq/l		0.04		SW6010B	10/09/07 17:00 / skd
Sulfate, sat. paste	2.68	meq/L		0.02		SW6010B	10/09/07 17:00 / skd
Chloride, sat. paste	0.40	meq/L		0.03		SW6010B	10/09/07 17:00 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	22	%		1		ASA15-5	09/27/07 09:52 / jjm
Silt	44	%		1		ASA15-5	09/27/07 09:52 / jjm
Clay	34	%		1		ASA15-5	09/27/07 09:52 / jjm
Texture	CL	unitless				ASA15-5	09/27/07 09:52 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	25.3	meq/100g		0.09		SW6010B	11/15/07 19:17 / skd
Lime as CaCO3	6.4	%		0.1		USDA23c	09/26/07 00:00 / jjm
Nitrate as N, KCL Extract	4.0	mg/kg		1.0		ASA38-3	10/01/07 10:55 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.65	meq/100g		0.04		SW6010B	10/09/07 12:15 / skd
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.6	meq/100g		0.1		Calculation	09/27/07 09:52 / jjm
Exchangeable Sodium Percentage	2.2	%		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: H07090233-017  
 Client Sample ID: T2/MB-10-(12-24")

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
<b>SATURATED PASTE</b>							
pH, sat. paste	8.0	s.u.		0.1		ASAM10-3.2	09/27/07 09:52 / jjm
Conductivity, sat. paste	0.50	mmhos/cm		0.01		ASAM10-3	09/27/07 09:52 / jjm
Saturation	45.6	%		0.1		USDA27a	09/27/07 09:52 / jjm
Sodium Adsorption Ratio (SAR)	1.2	unitless		0.01		Calculation	09/27/07 09:52 / jjm
Bicarbonate, sat. paste	3.60	meq/L		0.02		ASA10-3	10/08/07 16:07 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	1.95	meq/l		0.05		SW6010B	10/09/07 17:03 / skd
Magnesium, sat. paste	1.97	meq/l		0.08		SW6010B	10/09/07 17:03 / skd
Sodium, sat. paste	1.66	meq/l		0.04		SW6010B	10/09/07 17:03 / skd
Sulfate, sat. paste	2.29	meq/L		0.02		SW6010B	10/09/07 17:03 / skd
Chloride, sat. paste	0.30	meq/L		0.03		SW6010B	10/09/07 17:03 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	19	%		1		ASA15-5	09/27/07 09:52 / jjm
Silt	45	%		1		ASA15-5	09/27/07 09:52 / jjm
Clay	36	%		1		ASA15-5	09/27/07 09:52 / jjm
Texture	SiCL	unitless				ASA15-5	09/27/07 09:52 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	24.0	meq/100g		0.09		SW6010B	11/15/07 19:20 / skd
Lime as CaCO3	10.9	%		0.1		USDA23c	09/26/07 00:00 / jjm
Nitrate as N, KCL Extract	3.3	mg/kg		1.0		ASA38-3	10/01/07 10:57 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.81	meq/100g		0.04		SW6010B	10/09/07 12:17 / skd
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.7	meq/100g		0.1		Calculation	09/27/07 09:52 / jjm
Exchangeable Sodium Percentage	3.7	%		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: H07090233-018  
 Client Sample ID: T2/MB-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
<b>SATURATED PASTE</b>							
pH, sat. paste	8.1	s.u.		0.1		ASAM10-3.2	09/27/07 09:52 / jjm
Conductivity, sat. paste	0.91	mmhos/cm		0.01		ASAM10-3	09/27/07 09:52 / jjm
Saturation	46.4	%		0.1		USDA27a	09/27/07 09:52 / jjm
Sodium Adsorption Ratio (SAR)	2.1	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
<b>SATURATED PASTE</b>							
Calcium, sat. paste	2.69	meq/l		0.05		SW6010B	10/09/07 17:05 / skd
Magnesium, sat. paste	3.38	meq/l		0.08		SW6010B	10/09/07 17:05 / skd
Sodium, sat. paste	3.59	meq/l		0.04		SW6010B	10/09/07 17:05 / skd
Chloride, sat. paste	0.42	meq/L		0.03		SW6010B	10/09/07 17:05 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	32	%		1		ASA15-5	09/27/07 09:52 / jjm
Silt	40	%		1		ASA15-5	09/27/07 09:52 / jjm
Clay	28	%		1		ASA15-5	09/27/07 09:52 / jjm
Texture	CL	unitless				ASA15-5	09/27/07 09:52 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	22.4	meq/100g		0.09		SW6010B	10/10/07 18:01 / skd
Lime as CaCO3	11.1	%		0.1		USDA23c	09/26/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.08	meq/100g		0.04		SW6010B	10/09/07 12:20 / skd
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.9	meq/100g		0.1		Calculation	09/27/07 09:52 / jjm
Exchangeable Sodium Percentage	4.1	%		0.1		USDA20a	09/27/07 09:52 / jjm

Report Definitions: RL - Analyte reporting limit.  
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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: H07090233-019  
 Client Sample ID: T2/MB-10-(36-60")

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
<b>SATURATED PASTE</b>							
pH, sat. paste	7.8	s.u.		0.1		ASAM10-3.2	09/27/07 09:52 / jjm
Conductivity, sat. paste	3.57	mmhos/cm		0.01		ASAM10-3	09/27/07 09:52 / jjm
Saturation	42.9	%		0.1		USDA27a	09/27/07 09:52 / jjm
Sodium Adsorption Ratio (SAR)	1.8	unitless		0.01		Calculation	09/27/07 09:52 / jjm
Bicarbonate, sat. paste	1.60	meq/L		0.02		ASA10-3	10/08/07 16:07 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	19.6	meq/l		0.05		SW6010B	10/09/07 17:13 / skd
Magnesium, sat. paste	21.6	meq/l		0.08		SW6010B	10/09/07 17:13 / skd
Sodium, sat. paste	8.33	meq/l		0.04		SW6010B	10/09/07 17:13 / skd
Chloride, sat. paste	0.47	meq/L		0.03		SW6010B	10/09/07 17:13 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	36	%		1		ASA15-5	09/27/07 09:52 / jjm
Silt	40	%		1		ASA15-5	09/27/07 09:52 / jjm
Clay	24	%		1		ASA15-5	09/27/07 09:52 / jjm
Texture	L	unitless				ASA15-5	09/27/07 09:52 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Fluoride	ND	mg/kg		1.0		A4500-F C	10/28/07 00:00 / sld
Cation Exchange Capacity	21.3	meq/100g		0.09		SW6010B	10/10/07 18:08 / skd
Lime as CaCO3	7.7	%		0.1		USDA23c	09/26/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.15	meq/100g		0.04		SW6010B	10/09/07 12:23 / skd
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.8	meq/100g		0.1		Calculation	09/27/07 09:52 / jjm
Exchangeable Sodium Percentage	3.7	%		0.1		USDA20a	09/27/07 09:52 / jjm
<b>METALS, WATER SOLUBLE</b>							
Selenium	0.025	mg/kg		0.005		E270.3	10/20/07 10:19 / skd
<b>METALS, CACL2 EXTRACTABLE</b>							
Barium	ND	mg/kg		0.20		SW6010B	10/10/07 09:52 / skd
Boron	0.33	mg/kg		0.20		SW6010B	10/10/07 09:52 / skd

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
 Project: TRIP-TierII (formerly referred to as AMPP)  
 Lab ID: H07090233-020  
 Client Sample ID: T2/MB-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
<b>SATURATED PASTE</b>							
pH, sat. paste	7.8	s.u.		0.1		ASAM10-3.2	09/27/07 09:52 / jjm
Conductivity, sat. paste	3.87	mmhos/cm		0.01		ASAM10-3	09/27/07 09:52 / jjm
Saturation	42.4	%		0.1		USDA27a	09/27/07 09:52 / jjm
Sodium Adsorption Ratio (SAR)	2.0	unitless		0.01		Calculation	09/27/07 09:52 / jjm
Bicarbonate, sat. paste	1.20	meq/L		0.02		ASA10-3	10/08/07 16:07 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	23.4	meq/l		0.05		SW6010B	10/09/07 17:16 / skd
Magnesium, sat. paste	23.1	meq/l		0.08		SW6010B	10/09/07 17:16 / skd
Sodium, sat. paste	9.58	meq/l		0.04		SW6010B	10/09/07 17:16 / skd
Chloride, sat. paste	0.28	meq/L		0.03		SW6010B	10/09/07 17:16 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	40	%		1		ASA15-5	09/27/07 09:52 / jjm
Silt	38	%		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
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	19.8	meq/100g		0.09		SW6010B	10/10/07 18:11 / skd
Lime as CaCO3	6.3	%		0.1		USDA23c	09/26/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.34	meq/100g		0.04		SW6010B	10/09/07 12:25 / skd
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.9	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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 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
 Project: TRIP-TierII (formerly referred to as AMPP)  
 Lab ID: H07090233-021  
 Client Sample ID: T2/MB-10-(0-2")

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
<b>SATURATED PASTE</b>							
pH, sat. paste	7.7	s.u.		0.1		ASAM10-3.2	09/27/07 09:52 / jjm
Conductivity, sat. paste	0.79	mmhos/cm		0.01		ASAM10-3	09/27/07 09:52 / jjm
Saturation	42.0	%		0.1		USDA27a	09/27/07 09:52 / jjm
Sodium Adsorption Ratio (SAR)	0.42	unitless		0.01		Calculation	09/27/07 09:52 / jjm
Bicarbonate, sat. paste	5.59	meq/L		0.02		ASA10-3	10/08/07 16:07 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	3.56	meq/l		0.05		SW6010B	10/09/07 17:21 / skd
Magnesium, sat. paste	2.65	meq/l		0.08		SW6010B	10/09/07 17:21 / skd
Sodium, sat. paste	0.74	meq/l		0.04		SW6010B	10/09/07 17:21 / skd
Chloride, sat. paste	1.17	meq/L		0.03		SW6010B	10/09/07 17:21 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	28	%		1		ASA15-5	09/27/07 09:52 / jjm
Silt	46	%		1		ASA15-5	09/27/07 09:52 / jjm
Clay	26	%		1		ASA15-5	09/27/07 09:52 / jjm
Texture	L	unitless				ASA15-5	09/27/07 09:52 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	24.4	meq/100g		0.09		SW6010B	10/10/07 18:16 / skd
Lime as CaCO3	1.1	%		0.1		USDA23c	09/26/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.44	meq/100g		0.04		SW6010B	10/09/07 12:30 / skd
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.4	meq/100g		0.1		Calculation	09/27/07 09:52 / jjm
Exchangeable Sodium Percentage	1.7	%		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.