



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
Project: TRIP - TierII (formerly referred to as AMPP)  
Lab ID: H07090277-029  
Client Sample ID: T2/YBA-10-(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
<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	0.65	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	46.5	%		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	9.74	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	3.73	meq/l		0.05		SW6010B	10/15/07 09:59 / skd
Magnesium, sat. paste	1.57	meq/l		0.08		SW6010B	10/15/07 09:59 / skd
Sodium, sat. paste	1.79	meq/l		0.04		SW6010B	10/15/07 09:59 / skd
Sulfate, sat. paste	2.22	meq/l		0.02		SW6010B	10/15/07 09:59 / skd
Chloride, sat. paste	0.70	meq/L		0.03		SW6010B	10/15/07 09:59 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	19	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	61	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	20	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	SiL	unitless				ASA15-5	10/05/07 15:04 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Fluoride	1.1	mg/kg		1.0		A4500-F C	10/28/07 00:00 / sld
Potassium, NH4OAc Extractable	157	meq/100g		1		ASA13-3	10/12/07 14:08 / skd
Organic Matter	1.94	%		0.02		ASA29-3	09/28/07 12:42 / jjm
Cation Exchange Capacity	27.2	meq/100g		0.09		SW6010B	10/16/07 12:10 / skd
Lime as CaCO3	6.0	%		0.1		USDA23c	10/04/07 00:00 / jjm
Phosphorus	7.8	mg/kg		0.1		ASA24-5	10/02/07 13:34 / sld
Nitrate as N, KCL Extract	7.0	mg/kg		1.0		ASA38-3	10/01/07 11:33 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.64	meq/100g		0.04		SW6010B	10/12/07 14:08 / skd
<b>EXCHANGEABLES</b>							
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
<b>METALS, WATER SOLUBLE</b>							
Selenium	ND	mg/kg		0.005		E270.3	10/20/07 10:40 / skd
<b>METALS, DTPA EXTRACTABLE</b>							
Zinc	0.33	mg/kg		0.02		SW6010B	10/10/07 11:56 / 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: H07090277-029  
Client Sample ID: T2/YBA-10-(0-6")

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

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Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, CACL2 EXTRACTABLE</b>							
Barium	1.3	mg/kg		0.20		SW6010B	10/10/07 10:21 / skd
Boron	0.28	mg/kg		0.20		SW6010B	10/10/07 10:21 / skd

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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: H07090277-030  
 Client Sample ID: T2/YBA-10-(6-12")

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
<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	0.81	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	45.7	%		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	3.40	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	4.16	meq/l		0.05		SW6010B	10/15/07 10:01 / skd
Magnesium, sat. paste	1.97	meq/l		0.08		SW6010B	10/15/07 10:01 / skd
Sodium, sat. paste	2.45	meq/l		0.04		SW6010B	10/15/07 10:01 / skd
Sulfate, sat. paste	4.84	meq/l		0.02		SW6010B	10/15/07 10:01 / skd
Chloride, sat. paste	0.42	meq/L		0.03		SW6010B	10/15/07 10:01 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	17	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	63	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	20	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	SiL	unitless				ASA15-5	10/05/07 15:04 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	26.9	meq/100g		0.09		SW6010B	10/16/07 12:13 / skd
Lime as CaCO3	6.0	%		0.1		USDA23c	10/04/07 00:00 / jjm
Nitrate as N, KCL Extract	5.6	mg/kg		1.0		ASA38-3	10/01/07 11:35 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.71	meq/100g		0.04		SW6010B	10/12/07 14:10 / skd
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.6	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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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
 Project: TRIP - TierII (formerly referred to as AMPP)  
 Lab ID: H07090277-031  
 Client Sample ID: T2/YBA-10-(12-24")

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
<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	3.20	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	48.3	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	3.6	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	16.1	meq/l		0.05		SW6010B	10/15/07 10:07 / skd
Magnesium, sat. paste	11.9	meq/l		0.08		SW6010B	10/15/07 10:07 / skd
Sodium, sat. paste	13.4	meq/l		0.04		SW6010B	10/15/07 10:07 / skd
Sulfate, sat. paste	40.0	meq/l		0.02		SW6010B	10/15/07 10:07 / skd
Chloride, sat. paste	1.41	meq/L		0.03		SW6010B	10/15/07 10:07 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	14	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	65	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	21	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	SiL	unitless				ASA15-5	10/05/07 15:04 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	27.7	meq/100g		0.09		SW6010B	10/16/07 12:18 / skd
Lime as CaCO3	6.6	%		0.1		USDA23c	10/04/07 00:00 / jjm
Nitrate as N, KCL Extract	3.9	mg/kg		1.0		ASA38-3	10/01/07 11:37 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.85	meq/100g		0.04		SW6010B	10/12/07 14:15 / skd
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.2	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: H07090277-032  
 Client Sample ID: T2/YBA-10-(24-36")

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
<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	2.89	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	46.3	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	5.7	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	2.80	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	8.19	meq/l		0.05		SW6010B	10/15/07 10:09 / skd
Magnesium, sat. paste	6.86	meq/l		0.08		SW6010B	10/15/07 10:09 / skd
Sodium, sat. paste	15.7	meq/l		0.04		SW6010B	10/15/07 10:09 / skd
Chloride, sat. paste	1.41	meq/L		0.03		SW6010B	10/15/07 10:09 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	24	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	58	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	18	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	SiL	unitless				ASA15-5	10/05/07 15:04 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	23.9	meq/100g		0.09		SW6010B	10/16/07 12:21 / skd
Lime as CaCO3	6.1	%		0.1		USDA23c	10/04/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	2.24	meq/100g		0.04		SW6010B	10/12/07 14:18 / skd
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.5	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	6.3	%		0.1		USDA20a	10/05/07 15:04 / jjm

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: H07090277-033  
 Client Sample ID: T2/YBA-10-(36-60")

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
<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	2.70	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	48.3	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	7.6	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	6.39	meq/l		0.05		SW6010B	10/15/07 10:12 / skd
Magnesium, sat. paste	4.17	meq/l		0.08		SW6010B	10/15/07 10:12 / skd
Sodium, sat. paste	17.4	meq/l		0.04		SW6010B	10/15/07 10:12 / skd
Chloride, sat. paste	1.41	meq/L		0.03		SW6010B	10/15/07 10:12 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	17	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	55	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	28	%		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	1.1	mg/kg		1.0		A4500-F C	10/28/07 00:00 / sld
Cation Exchange Capacity	30.7	meq/100g		0.09		SW6010B	10/16/07 12:23 / skd
Lime as CaCO3	5.3	%		0.1		USDA23c	10/04/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	2.99	meq/100g		0.04		SW6010B	10/12/07 14:20 / skd
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	2.2	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	7.0	%		0.1		USDA20a	10/05/07 15:04 / jjm
<b>METALS, WATER SOLUBLE</b>							
Selenium	0.026	mg/kg		0.005		E270.3	10/20/07 10:41 / skd
<b>METALS, CACL2 EXTRACTABLE</b>							
Barium	ND	mg/kg		0.20		SW6010B	10/10/07 10:24 / skd
Boron	0.54	mg/kg		0.20		SW6010B	10/10/07 10:24 / 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: H07090277-034  
 Client Sample ID: T2/YBA-10-(60-96")

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
<b>SATURATED PASTE</b>							
pH, sat. paste	8.6	s.u.		0.1		ASAM10-3.2	10/05/07 15:04 / jjm
Conductivity, sat. paste	1.95	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	61.0	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	18	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	0.99	meq/l		0.05		SW6010B	10/15/07 10:15 / skd
Magnesium, sat. paste	0.74	meq/l		0.08		SW6010B	10/15/07 10:15 / skd
Sodium, sat. paste	16.6	meq/l		0.04		SW6010B	10/15/07 10:15 / skd
Chloride, sat. paste	1.06	meq/L		0.03		SW6010B	10/15/07 10:15 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	24	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	54	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	22	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	SiL	unitless				ASA15-5	10/05/07 15:04 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	27.6	meq/100g		0.09		SW6010B	10/16/07 12:26 / skd
Lime as CaCO3	5.6	%		0.1		USDA23c	10/04/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	7.03	meq/100g		0.04		SW6010B	10/12/07 14:28 / skd
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	6.0	meq/100g		0.1		Calculation	10/05/07 15:04 / jjm
Exchangeable Sodium Percentage	22	%		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:** H07090277-035  
**Client Sample ID:** T2/YBA-10-(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
<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	0.82	mmhos/cm		0.01		ASAM10-3	10/05/07 15:04 / jjm
Saturation	46.2	%		0.1		USDA27a	10/05/07 15:04 / jjm
Sodium Adsorption Ratio (SAR)	1.3	unitless		0.01		Calculation	10/05/07 15:04 / jjm
Bicarbonate, sat. paste	7.99	meq/L		0.02		ASA10-3	10/16/07 11:35 / jjm
<b>SATURATED PASTE</b>							
Calcium, sat. paste	4.39	meq/l		0.05		SW6010B	10/15/07 10:23 / skd
Magnesium, sat. paste	1.85	meq/l		0.08		SW6010B	10/15/07 10:23 / skd
Sodium, sat. paste	2.31	meq/l		0.04		SW6010B	10/15/07 10:23 / skd
Chloride, sat. paste	1.06	meq/L		0.03		SW6010B	10/15/07 10:23 / skd
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	22	%		1		ASA15-5	10/05/07 15:04 / jjm
Silt	58	%		1		ASA15-5	10/05/07 15:04 / jjm
Clay	20	%		1		ASA15-5	10/05/07 15:04 / jjm
Texture	SiL	unitless				ASA15-5	10/05/07 15:04 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	27.7	meq/100g		0.09		SW6010B	10/16/07 12:29 / skd
Lime as CaCO3	5.6	%		0.1		USDA23c	10/04/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.66	meq/100g		0.04		SW6010B	10/12/07 14:31 / 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

**Report Definitions:** RL - Analyte reporting limit.  
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MCL - Maximum contaminant level.  
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