



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
Project: Tier II  
Lab ID: H06120136-071  
Client Sample ID: T2/YAA-10 (0-6")

Report Date: 01/17/07  
Collection Date: 12/13/06 17:00  
Date Received: 12/15/06  
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	7.4	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	0.79	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	51.8	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	1.0	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	5.48	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	3.79	meq/l		0.05		SW6010B	01/08/07 13:58 / rp
Magnesium, sat. paste	2.45	meq/l		0.08		SW6010B	01/08/07 13:58 / rp
Sodium, sat. paste	1.77	meq/l		0.04		SW6010B	01/08/07 13:58 / rp
Sulfate, sat. paste	1.69	meq/L		0.02		SW6010B	01/08/07 13:58 / rp
Chloride, sat. paste	0.10	meq/L		0.03		SW6010B	01/08/07 13:58 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	23	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	50	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	27	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	CL	unitless				ASA15-5	01/04/07 12:21 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Fluoride	ND	mg/kg		1.0		A4500-F C	01/15/07 10:45 / abb
Potassium, NH4OAc Extractable	160	meq/100g	H	1		ASA13-3	01/12/07 09:23 / rp
Organic Matter	2.91	%		0.02		ASA29-3	01/05/07 16:02 / skr
Cation Exchange Capacity	37.2	meq/100g		0.09		SW6010B	01/12/07 17:22 / rp
Lime as CaCO3	3.8	%		0.1		USDA23c	01/08/07 00:00 / jjm
Phosphorus	8.4	mg/kg		0.1		ASA24-5	01/05/07 14:13 / sld
Nitrate as N, KCL Extract	12	mg/kg		1.0		ASA38-3	01/08/07 14:44 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.61	meq/100g		0.04		SW6010B	01/12/07 09:23 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.5	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	1.4	%		0.1		USDA20a	01/04/07 12:21 / jjm
<b>METALS, DTPA EXTRACTABLE</b>							
Zinc	0.70	mg/kg		0.02		SW6010B	01/04/07 16:56 / rp
<b>METALS, CACL2 EXTRACTABLE</b>							
Barium	1.2	mg/kg		0.20		SW6010B	01/04/07 15:27 / rp
Boron	0.27	mg/kg		0.20		SW6010B	01/04/07 15:27 / rp

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

H - Analysis performed past recommended holding time.

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



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
Project: Tier II  
Lab ID: H06120136-071  
Client Sample ID: T2/YAA-10 (0-6")

Report Date: 01/17/07  
Collection Date: 12/13/06 17:00  
DateReceived: 12/15/06  
Matrix: Soil

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Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, CACL2 EXTRACTABLE</b>							
Selenium	0.055	mg/kg		0.010		SW6010B	01/04/07 15:27 / rp

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

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



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
Project: Tier II  
Lab ID: H06120136-072  
Client Sample ID: T2/YAA-10 (6-12")

Report Date: 01/17/07  
Collection Date: 12/13/06 17:00  
Date Received: 12/15/06  
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	7.5	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	0.98	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	52.6	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	1.4	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	4.06	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	4.29	meq/l		0.05		SW6010B	01/08/07 14:01 / rp
Magnesium, sat. paste	3.00	meq/l		0.08		SW6010B	01/08/07 14:01 / rp
Sodium, sat. paste	2.67	meq/l		0.04		SW6010B	01/08/07 14:01 / rp
Sulfate, sat. paste	5.52	meq/L		0.02		SW6010B	01/08/07 14:01 / rp
Chloride, sat. paste	0.19	meq/L		0.03		SW6010B	01/08/07 14:01 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	20	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	51	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	29	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	SiCL	unitless				ASA15-5	01/04/07 12:21 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	38.7	meq/100g		0.09		SW6010B	01/12/07 17:25 / rp
Lime as CaCO3	3.9	%		0.1		USDA23c	01/08/07 00:00 / jjm
Nitrate as N, KCL Extract	8.7	mg/kg		1.0		ASA38-3	01/08/07 13:44 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.89	meq/100g		0.04		SW6010B	01/12/07 09:26 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.8	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	1.9	%		0.1		USDA20a	01/04/07 12:21 / 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: Tier II  
Lab ID: H06120136-073  
Client Sample ID: T2/YAA-10 (12-24")

Report Date: 01/17/07  
Collection Date: 12/13/06 17:00  
Date Received: 12/15/06  
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	01/04/07 12:21 / jjm
Conductivity, sat. paste	1.14	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	50.0	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	2.3	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	3.65	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	3.15	meq/l		0.05		SW6010B	01/08/07 14:04 / rp
Magnesium, sat. paste	2.66	meq/l		0.08		SW6010B	01/08/07 14:04 / rp
Sodium, sat. paste	3.97	meq/l		0.04		SW6010B	01/08/07 14:04 / rp
Sulfate, sat. paste	6.37	meq/L		0.02		SW6010B	01/08/07 14:04 / rp
Chloride, sat. paste	0.22	meq/L		0.03		SW6010B	01/08/07 14:04 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	20	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	52	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	28	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	SiCL	unitless				ASA15-5	01/04/07 12:21 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	36.1	meq/100g		0.09		SW6010B	01/12/07 17:28 / rp
Lime as CaCO3	4.4	%		0.1		USDA23c	01/08/07 00:00 / jjm
Nitrate as N, KCL Extract	5.6	mg/kg		1.0		ASA38-3	01/08/07 13:46 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.32	meq/100g		0.04		SW6010B	01/12/07 09:28 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.1	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	3.1	%		0.1		USDA20a	01/04/07 12:21 / jjm

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QCL - Quality control limit.

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



### LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc  
**Project:** Tier II  
**Lab ID:** H06120136-074  
**Client Sample ID:** T2/YAA-10 (24-36")

**Report Date:** 01/17/07  
**Collection Date:** 12/13/06 17:00  
**Date Received:** 12/15/06  
**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	01/04/07 12:21 / jjm
Conductivity, sat. paste	2.41	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	47.8	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	5.6	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	4.06	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	5.85	meq/l		0.05		SW6010B	01/08/07 14:07 / rp
Magnesium, sat. paste	5.60	meq/l		0.08		SW6010B	01/08/07 14:07 / rp
Sodium, sat. paste	13.4	meq/l		0.04		SW6010B	01/08/07 14:07 / rp
Chloride, sat. paste	0.09	meq/L		0.03		SW6010B	01/08/07 14:07 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	27	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	50	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	23	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	SiL	unitless				ASA15-5	01/04/07 12:21 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	34.5	meq/100g		0.09		SW6010B	01/12/07 17:31 / rp
Lime as CaCO3	4.6	%		0.1		USDA23c	01/08/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	2.16	meq/100g		0.04		SW6010B	01/12/07 09:31 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.5	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	4.4	%		0.1		USDA20a	01/04/07 12:21 / 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:** Tier II  
**Lab ID:** H06120136-075  
**Client Sample ID:** T2/YAA-10 (36-60")

**Report Date:** 01/17/07  
**Collection Date:** 12/13/06 17:00  
**Date Received:** 12/15/06  
**Matrix:** Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	7.5	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	3.16	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	53.5	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	8.1	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	4.66	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	9.42	meq/l		0.05		SW6010B	01/08/07 14:10 / rp
Magnesium, sat. paste	8.05	meq/l		0.08		SW6010B	01/08/07 14:10 / rp
Sodium, sat. paste	24.0	meq/l		0.04		SW6010B	01/08/07 14:10 / rp
Chloride, sat. paste	1.46	meq/L		0.03		SW6010B	01/08/07 14:10 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	29	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	50	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	21	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	SiL	unitless				ASA15-5	01/04/07 12:21 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Fluoride	1.2	mg/kg		1.0		A4500-F C	01/15/07 10:45 / abb
Cation Exchange Capacity	33.0	meq/100g		0.09		SW6010B	01/12/07 17:34 / rp
Lime as CaCO3	4.5	%		0.1		USDA23c	01/08/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	3.36	meq/100g		0.04		SW6010B	01/12/07 09:34 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	2.1	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	6.3	%		0.1		USDA20a	01/04/07 12:21 / jjm
<b>METALS, CACL2 EXTRACTABLE</b>							
Barium	ND	mg/kg		0.20		SW6010B	01/04/07 15:30 / rp
Boron	0.35	mg/kg		0.20		SW6010B	01/04/07 15:30 / rp
Selenium	0.047	mg/kg		0.010		SW6010B	01/04/07 15:30 / rp

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

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



LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc  
**Project:** Tier II  
**Lab ID:** H06120136-076  
**Client Sample ID:** T2/YAA-10 (60-96")

**Report Date:** 01/17/07  
**Collection Date:** 12/13/06 17:00  
**Date Received:** 12/15/06  
**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	01/04/07 12:21 / jjm
Conductivity, sat. paste	4.08	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	45.4	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	8.9	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	2.84	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	9.47	meq/l		0.05		SW6010B	01/08/07 14:19 / rp
Magnesium, sat. paste	8.00	meq/l		0.08		SW6010B	01/08/07 14:19 / rp
Sodium, sat. paste	26.2	meq/l		0.04		SW6010B	01/08/07 14:19 / rp
Chloride, sat. paste	1.21	meq/L		0.03		SW6010B	01/08/07 14:19 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	34	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	45	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	21	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	L	unitless				ASA15-5	01/04/07 12:21 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	29.1	meq/100g		0.09		SW6010B	01/12/07 17:37 / rp
Lime as CaCO3	4.8	%		0.1		USDA23c	01/08/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	3.62	meq/100g		0.04		SW6010B	01/12/07 09:37 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	2.4	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	8.4	%		0.1		USDA20a	01/04/07 12:21 / 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:** Tier II  
**Lab ID:** H06120136-077  
**Client Sample ID:** T2/YAA-10 (0-2")

**Report Date:** 01/17/07  
**Collection Date:** 12/13/06 17:00  
**Date Received:** 12/15/06  
**Matrix:** Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SATURATED PASTE</b>							
pH, sat. paste	7.4	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	0.78	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	53.4	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	0.83	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	5.68	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	3.77	meq/l		0.05		SW6010B	01/08/07 14:22 / rp
Magnesium, sat. paste	2.48	meq/l		0.08		SW6010B	01/08/07 14:22 / rp
Sodium, sat. paste	1.47	meq/l		0.04		SW6010B	01/08/07 14:22 / rp
Chloride, sat. paste	0.38	meq/L		0.03		SW6010B	01/08/07 14:22 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	23	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	48	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	29	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	CL	unitless				ASA15-5	01/04/07 12:21 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	41.4	meq/100g		0.09		SW6010B	01/12/07 17:40 / rp
Lime as CaCO3	3.5	%		0.1		USDA23c	01/08/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.64	meq/100g		0.04		SW6010B	01/12/07 09:40 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.6	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	1.4	%		0.1		USDA20a	01/04/07 12:21 / jjm

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

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