



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
Project: Tier II  
Lab ID: H06120136-029  
Client Sample ID: T2/EA-10 (0-6")

Report Date: 01/17/07  
Collection Date: 12/12/06 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	7.3	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	1.11	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	54.0	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	0.55	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	8.52	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	5.77	meq/l		0.05		SW6010B	01/08/07 11:03 / rp
Magnesium, sat. paste	3.96	meq/l		0.08		SW6010B	01/08/07 11:03 / rp
Sodium, sat. paste	1.21	meq/l		0.04		SW6010B	01/08/07 11:03 / rp
Sulfate, sat. paste	1.49	meq/L		0.02		SW6010B	01/08/07 11:03 / rp
Chloride, sat. paste	0.75	meq/L		0.03		SW6010B	01/08/07 11:03 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	24	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	51	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	25	%		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	ND	mg/kg		1.0		A4500-F C	01/15/07 10:45 / abb
Potassium, NH4OAc Extractable	329	meq/100g		1		ASA13-3	01/10/07 17:09 / rp
Organic Matter	3.71	%		0.02		ASA29-3	01/05/07 16:02 / skr
Cation Exchange Capacity	39.5	meq/100g		0.09		SW6010B	01/12/07 14:15 / rp
Lime as CaCO3	4.6	%		0.1		USDA23c	01/08/07 00:00 / jjm
Phosphorus	8.1	mg/kg		0.1		ASA24-5	01/05/07 14:02 / sld
Nitrate as N, KCL Extract	20	mg/kg	D	2.5		ASA38-3	01/08/07 14:18 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.45	meq/100g		0.04		SW6010B	01/10/07 17:09 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.4	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	1.0	%		0.1		USDA20a	01/04/07 12:21 / jjm
<b>METALS, DTPA EXTRACTABLE</b>							
Zinc	1.05	mg/kg		0.02		SW6010B	01/04/07 16:33 / rp
<b>METALS, CACL2 EXTRACTABLE</b>							
Barium	1.3	mg/kg		0.20		SW6010B	01/04/07 14:34 / rp
Boron	0.48	mg/kg		0.20		SW6010B	01/04/07 14:34 / rp

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

D - RL increased due to sample matrix interference.

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



LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc  
**Project:** Tier II  
**Lab ID:** H06120136-029  
**Client Sample ID:** T2/EA-10 (0-6")

**Report Date:** 01/17/07  
**Collection Date:** 12/12/06 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	0.090	mg/kg		0.010		SW6010B	01/04/07 14:34 / rp

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



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
Project: Tier II  
Lab ID: H06120136-030  
Client Sample ID: T2/EA-10 (6-12")

Report Date: 01/17/07  
Collection Date: 12/12/06 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	1.12	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	48.7	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	1.2	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	3.85	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	5.16	meq/l		0.05		SW6010B	01/08/07 11:06 / rp
Magnesium, sat. paste	3.42	meq/l		0.08		SW6010B	01/08/07 11:06 / rp
Sodium, sat. paste	2.51	meq/l		0.04		SW6010B	01/08/07 11:06 / rp
Sulfate, sat. paste	4.18	meq/L		0.02		SW6010B	01/08/07 11:06 / rp
Chloride, sat. paste	0.27	meq/L		0.03		SW6010B	01/08/07 11:06 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	20	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	58	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	22	%		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	32.2	meq/100g		0.09		SW6010B	01/12/07 14:24 / rp
Lime as CaCO3	5.4	%		0.1		USDA23c	01/08/07 00:00 / jjm
Nitrate as N, KCL Extract	23	mg/kg	D	2.5		ASA38-3	01/08/07 14:20 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.64	meq/100g		0.04		SW6010B	01/10/07 17:12 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.5	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	1.6	%		0.1		USDA20a	01/04/07 12:21 / jjm

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ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
 Project: Tier II  
 Lab ID: H06120136-031  
 Client Sample ID: T2/EA-10 (12-24")

Report Date: 01/17/07  
 Collection Date: 12/12/06 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	7.6	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	1.28	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	46.3	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	2.7	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	4.26	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	4.09	meq/l		0.05		SW6010B	01/08/07 11:12 / rp
Magnesium, sat. paste	3.55	meq/l		0.08		SW6010B	01/08/07 11:12 / rp
Sodium, sat. paste	5.28	meq/l		0.04		SW6010B	01/08/07 11:12 / rp
Sulfate, sat. paste	7.99	meq/L		0.02		SW6010B	01/08/07 11:12 / rp
Chloride, sat. paste	0.27	meq/L		0.03		SW6010B	01/08/07 11:12 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	28	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	49	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	23	%		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	31.5	meq/100g		0.09		SW6010B	01/12/07 14:30 / rp
Lime as CaCO3	7.2	%		0.1		USDA23c	01/08/07 00:00 / jjm
Nitrate as N, KCL Extract	19	mg/kg	D	2.5		ASA38-3	01/08/07 14:24 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.11	meq/100g		0.04		SW6010B	01/11/07 14:32 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.9	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	2.8	%		0.1		USDA20a	01/04/07 12:21 / jjm

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



### LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc  
**Project:** Tier II  
**Lab ID:** H06120136-032  
**Client Sample ID:** T2/EA-10 (24-36")

**Report Date:** 01/17/07  
**Collection Date:** 12/12/06 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	2.92	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	47.5	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	3.9	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	2.70	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	9.81	meq/l		0.05		SW6010B	01/08/07 11:15 / rp
Magnesium, sat. paste	11.0	meq/l		0.08		SW6010B	01/08/07 11:15 / rp
Sodium, sat. paste	12.6	meq/l		0.04		SW6010B	01/08/07 11:15 / rp
Chloride, sat. paste	0.38	meq/L		0.03		SW6010B	01/08/07 11:15 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	22	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	53	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	25	%		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	34.1	meq/100g		0.09		SW6010B	01/12/07 14:33 / rp
Lime as CaCO3	8.0	%		0.1		USDA23c	01/08/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.71	meq/100g		0.04		SW6010B	01/11/07 14:35 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.1	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	3.3	%		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:** H06120136-033  
**Client Sample ID:** T2/EA-10 (36-60")

**Report Date:** 01/17/07  
**Collection Date:** 12/12/06 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	7.9	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	3.59	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	38.6	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	5.7	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	2.64	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	7.31	meq/l		0.05		SW6010B	01/08/07 11:18 / rp
Magnesium, sat. paste	13.9	meq/l		0.08		SW6010B	01/08/07 11:18 / rp
Sodium, sat. paste	18.7	meq/l		0.04		SW6010B	01/08/07 11:18 / rp
Chloride, sat. paste	0.21	meq/L		0.03		SW6010B	01/08/07 11:18 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	48	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	39	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	13	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	L	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	26.1	meq/100g		0.09		SW6010B	01/12/07 14:36 / rp
Lime as CaCO3	7.8	%		0.1		USDA23c	01/08/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.85	meq/100g		0.04		SW6010B	01/11/07 14:38 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.1	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	4.3	%		0.1		USDA20a	01/04/07 12:21 / jjm
<b>METALS, CACL2 EXTRACTABLE</b>							
Barium	ND	mg/kg		0.20		SW6010B	01/04/07 14:37 / rp
Boron	0.49	mg/kg		0.20		SW6010B	01/04/07 14:37 / rp
Selenium	0.052	mg/kg		0.010		SW6010B	01/04/07 14:37 / rp

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



### LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc  
**Project:** Tier II  
**Lab ID:** H06120136-034  
**Client Sample ID:** T2/EA-10 (60-96")

**Report Date:** 01/17/07  
**Collection Date:** 12/12/06 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	7.9	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	2.92	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	35.8	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	4.2	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	2.16	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	5.78	meq/l		0.05		SW6010B	01/08/07 11:21 / rp
Magnesium, sat. paste	12.8	meq/l		0.08		SW6010B	01/08/07 11:21 / rp
Sodium, sat. paste	12.7	meq/l		0.04		SW6010B	01/08/07 11:21 / rp
Chloride, sat. paste	0.59	meq/L		0.03		SW6010B	01/08/07 11:21 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	48	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	39	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	13	%		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	24.1	meq/100g		0.09		SW6010B	01/12/07 14:39 / rp
Lime as CaCO3	7.0	%		0.1		USDA23c	01/08/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.48	meq/100g		0.04		SW6010B	01/11/07 14:41 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.0	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	4.3	%		0.1		USDA20a	01/04/07 12:21 / jjm

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ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
 Project: Tier II  
 Lab ID: H06120136-035  
 Client Sample ID: T2/EA-10 (0-2")

Report Date: 01/17/07  
 Collection Date: 12/12/06 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	0.97	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	58.2	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	0.34	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	7.10	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	5.84	meq/l		0.05		SW6010B	01/08/07 11:24 / rp
Magnesium, sat. paste	3.27	meq/l		0.08		SW6010B	01/08/07 11:24 / rp
Sodium, sat. paste	0.72	meq/l		0.04		SW6010B	01/08/07 11:24 / rp
Chloride, sat. paste	0.21	meq/L		0.03		SW6010B	01/08/07 11:24 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	22	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	57	%		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>							
Cation Exchange Capacity	35.0	meq/100g		0.09		SW6010B	01/12/07 14:42 / rp
Lime as CaCO3	5.9	%		0.1		USDA23c	01/08/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.43	meq/100g		0.04		SW6010B	01/11/07 14:44 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.4	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	1.1	%		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.