



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
Project: Tier II  
Lab ID: H06120136-015  
Client Sample ID: T2/DA-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	7.6	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	2.04	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	38.4	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	3.0	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	6.08	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	7.45	meq/l		0.05		SW6010B	01/08/07 10:07 / rp
Magnesium, sat. paste	4.15	meq/l		0.08		SW6010B	01/08/07 10:07 / rp
Sodium, sat. paste	7.21	meq/l		0.04		SW6010B	01/08/07 10:07 / rp
Sulfate, sat. paste	13.1	meq/L		0.02		SW6010B	01/08/07 10:07 / rp
Chloride, sat. paste	0.68	meq/L		0.03		SW6010B	01/08/07 10:07 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	52	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	35	%		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	ND	mg/kg		1.0		A4500-F C	01/15/07 10:45 / abb
Potassium, NH4OAc Extractable	228	meq/100g		1		ASA13-3	01/10/07 16:07 / rp
Organic Matter	2.41	%		0.02		ASA29-3	01/05/07 16:02 / skr
Cation Exchange Capacity	22.8	meq/100g		0.09		SW6010B	01/12/07 11:30 / rp
Lime as CaCO3	7.1	%		0.1		USDA23c	01/08/07 00:00 / jjm
Phosphorus	10	mg/kg		0.1		ASA24-5	01/05/07 14:00 / sld
Nitrate as N, KCL Extract	11	mg/kg		1.0		ASA38-3	01/08/07 14:10 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	1.03	meq/100g		0.04		SW6010B	01/10/07 16:07 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.8	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
<b>METALS, DTPA EXTRACTABLE</b>							
Zinc	0.82	mg/kg		0.02		SW6010B	01/04/07 16:27 / rp
<b>METALS, CACL2 EXTRACTABLE</b>							
Barium	0.61	mg/kg		0.20		SW6010B	01/04/07 14:16 / rp
Boron	0.48	mg/kg		0.20		SW6010B	01/04/07 14:16 / rp

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:** H06120136-015  
**Client Sample ID:** T2/DA-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	0.050	mg/kg		0.010		SW6010B	01/04/07 14:16 / 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: H06120136-016  
Client Sample ID: T2/DA-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	7.7	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	5.05	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	36.6	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	6.2	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	3.45	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	22.8	meq/l		0.05		SW6010B	01/08/07 10:10 / rp
Magnesium, sat. paste	13.5	meq/l		0.08		SW6010B	01/08/07 10:10 / rp
Sodium, sat. paste	26.3	meq/l		0.04		SW6010B	01/08/07 10:10 / rp
Sulfate, sat. paste	60.8	meq/L		0.02		SW6010B	01/08/07 10:10 / rp
Chloride, sat. paste	0.99	meq/L		0.03		SW6010B	01/08/07 10:10 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	46	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	40	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	14	%		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	20.9	meq/100g		0.09		SW6010B	01/12/07 11:33 / rp
Lime as CaCO3	9.9	%		0.1		USDA23c	01/08/07 00:00 / jjm
Nitrate as N, KCL Extract	7.6	mg/kg		1.0		ASA38-3	01/08/07 12:40 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	2.03	meq/100g		0.04		SW6010B	01/10/07 16:16 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.1	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	5.1	%		0.1		USDA20a	01/04/07 12:21 / jjm

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LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc  
Project: Tier II  
Lab ID: H06120136-017  
Client Sample ID: T2/DA-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	8.0	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	7.54	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	32.5	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	13	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	2.43	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	18.2	meq/l		0.05		SW6010B	01/08/07 10:13 / rp
Magnesium, sat. paste	18.6	meq/l		0.08		SW6010B	01/08/07 10:13 / rp
Sodium, sat. paste	54.2	meq/l		0.04		SW6010B	01/08/07 10:13 / rp
Sulfate, sat. paste	89.6	meq/L		0.02		SW6010B	01/08/07 10:13 / rp
Chloride, sat. paste	0.86	meq/L		0.03		SW6010B	01/08/07 10:13 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	63	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	27	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	10	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	SL	unitless				ASA15-5	01/04/07 12:21 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	15.3	meq/100g		0.09		SW6010B	01/12/07 11:36 / rp
Lime as CaCO3	7.1	%		0.1		USDA23c	01/08/07 00:00 / jjm
Nitrate as N, KCL Extract	10	mg/kg		1.0		ASA38-3	01/08/07 12:42 / sld
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	2.82	meq/100g		0.04		SW6010B	01/10/07 16:25 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.1	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	6.9	%		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: H06120136-018  
 Client Sample ID: T2/DA-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	8.0	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	6.61	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	31.4	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	13	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	2.23	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	13.8	meq/l		0.05		SW6010B	01/08/07 10:16 / rp
Magnesium, sat. paste	17.6	meq/l		0.08		SW6010B	01/08/07 10:16 / rp
Sodium, sat. paste	50.5	meq/l		0.04		SW6010B	01/08/07 10:16 / rp
Chloride, sat. paste	1.98	meq/L		0.03		SW6010B	01/08/07 10:16 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	64	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	28	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	8	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	SL	unitless				ASA15-5	01/04/07 12:21 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	15.8	meq/100g		0.09		SW6010B	01/12/07 11:39 / rp
Lime as CaCO3	6.4	%		0.1		USDA23c	01/08/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	2.36	meq/100g		0.04		SW6010B	01/10/07 16:28 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.8	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	4.9	%		0.1		USDA20a	01/04/07 12:21 / 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:** Tier II  
**Lab ID:** H06120136-019  
**Client Sample ID:** T2/DA-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	8.1	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	9.23	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	28.0	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	18	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	2.03	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	16.6	meq/l		0.05		SW6010B	01/08/07 10:24 / rp
Magnesium, sat. paste	25.4	meq/l		0.08		SW6010B	01/08/07 10:24 / rp
Sodium, sat. paste	83.2	meq/l		0.04		SW6010B	01/08/07 10:24 / rp
Chloride, sat. paste	2.46	meq/L		0.03		SW6010B	01/08/07 10:24 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	70	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	22	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	8	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	SL	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	13.2	meq/100g		0.09		SW6010B	01/12/07 13:37 / rp
Lime as CaCO3	6.1	%		0.1		USDA23c	01/08/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	3.45	meq/100g		0.04		SW6010B	01/10/07 16:31 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.1	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	8.5	%		0.1		USDA20a	01/04/07 12:21 / jjm
<b>METALS, CACL2 EXTRACTABLE</b>							
Barium	ND	mg/kg		0.20		SW6010B	01/04/07 14:19 / rp
Boron	0.35	mg/kg		0.20		SW6010B	01/04/07 14:19 / rp
Selenium	0.036	mg/kg		0.010		SW6010B	01/04/07 14:19 / rp

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

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ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

**Client:** HydroSolutions Inc  
**Project:** Tier II  
**Lab ID:** H06120136-020  
**Client Sample ID:** T2/DA-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	5.83	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	24.3	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	15	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	8.79	meq/l		0.05		SW6010B	01/08/07 10:27 / rp
Magnesium, sat. paste	11.1	meq/l		0.08		SW6010B	01/08/07 10:27 / rp
Sodium, sat. paste	47.2	meq/l		0.04		SW6010B	01/08/07 10:27 / rp
Chloride, sat. paste	1.32	meq/L		0.03		SW6010B	01/08/07 10:27 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	84	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	11	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	5	%		1		ASA15-5	01/04/07 12:21 / jjm
Texture	LS	unitless				ASA15-5	01/04/07 12:21 / jjm
<b>CHEMICAL CHARACTERISTICS</b>							
Cation Exchange Capacity	13.5	meq/100g		0.09		SW6010B	01/12/07 13:40 / rp
Lime as CaCO3	5.6	%		0.1		USDA23c	01/08/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	2.43	meq/100g		0.04		SW6010B	01/10/07 16:34 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	1.3	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	9.6	%		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:** H06120136-021  
**Client Sample ID:** T2/DA-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	7.6	s.u.		0.1		ASAM10-3.2	01/04/07 12:21 / jjm
Conductivity, sat. paste	1.42	mmhos/cm		0.01		ASAM10-3	01/04/07 12:21 / jjm
Saturation	37.6	%		0.1		USDA27a	01/04/07 12:21 / jjm
Sodium Adsorption Ratio (SAR)	2.1	unitless		0.01		Calculation	01/04/07 12:21 / jjm
Bicarbonate, sat. paste	6.89	meq/L		0.02		ASA10-3	01/09/07 10:33 / abb
<b>SATURATED PASTE</b>							
Calcium, sat. paste	4.44	meq/l		0.05		SW6010B	01/08/07 10:33 / rp
Magnesium, sat. paste	3.00	meq/l		0.08		SW6010B	01/08/07 10:33 / rp
Sodium, sat. paste	4.00	meq/l		0.04		SW6010B	01/08/07 10:33 / rp
Chloride, sat. paste	ND	meq/L		0.03		SW6010B	01/08/07 10:33 / rp
<b>PHYSICAL CHARACTERISTICS</b>							
Sand	52	%		1		ASA15-5	01/04/07 12:21 / jjm
Silt	34	%		1		ASA15-5	01/04/07 12:21 / jjm
Clay	14	%		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	43.2	meq/100g		0.09		SW6010B	01/12/07 13:52 / rp
Lime as CaCO3	6.9	%		0.1		USDA23c	01/08/07 00:00 / jjm
<b>METALS, AMMONIUM ACETATE EXTRACTABLE</b>							
Sodium, Extractable	0.72	meq/100g		0.04		SW6010B	01/10/07 16:40 / rp
<b>EXCHANGEABLES</b>							
Exchangeable Sodium	0.6	meq/100g		0.1		Calculation	01/04/07 12:21 / jjm
Exchangeable Sodium Percentage	1.3	%		0.1		USDA20a	01/04/07 12:21 / jjm

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