



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
Project: TRIP Tier II (formerly referred to as AMPP)
Lab ID: H09110004-036
Client Sample ID: T2/OAA-10 (0-6") [0-6]

Report Date: 12/18/09
Collection Date: 10/27/09 17:00
Date Received: 10/30/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.5	s.u.		0.1		ASAM10-3.2	11/11/09 08:13 / rrr
Conductivity, sat. paste	0.51	mmhos/cm		0.01		ASA10-3	11/12/09 15:49 / sah
Saturation	47.7	%		0.1		USDA27a	11/11/09 08:12 / wj
Calcium, sat. paste	3.25	meq/l		0.05		SW6010B	12/01/09 14:43 / sld
Magnesium, sat. paste	1.44	meq/l		0.08		SW6010B	12/01/09 14:43 / sld
Sodium, sat. paste	0.38	meq/l		0.04		SW6010B	12/01/09 14:43 / sld
Sodium Adsorption Ratio (SAR)	0.25	unitless		0.01		Calculation	11/16/09 07:56 / wj
Bicarbonate, sat. paste	4.87	meq/L		0.02		ASA10-3	12/08/09 13:54 / wj
PHYSICAL CHARACTERISTICS							
Sand	34	%		1		ASA15-5	11/11/09 15:29 / wj
Silt	46	%		1		ASA15-5	11/11/09 15:29 / wj
Clay	20	%		1		ASA15-5	11/11/09 15:29 / wj
Texture	L	unitless				ASA15-5	11/11/09 15:29 / wj
CHEMICAL CHARACTERISTICS							
Potassium, NH4OAc Extractable	265	mg/kg		1		ASA13-3	11/14/09 18:15 / sld
Cation Exchange Capacity	22.0	meq/100g		0.09		SW6010B	11/15/09 21:53 / sld
Organic Matter	3.34	%		0.02		ASA29-3	11/16/09 08:06 / rrr
Lime as CaCO3	7.0	%		0.1		USDA23c	11/16/09 00:00 / sah
Phosphorus	6.1	mg/kg		0.1		ASA24-5	11/24/09 16:02 / stp
Nitrate as N, KCL Extract	7.3	mg/kg		1.0		ASA38-3	11/17/09 16:35 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.15	meq/100g		0.0044		SW6010B	11/14/09 14:44 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.1	meq/100g		0.1		Calculation	11/16/09 07:56 / wj
Exchangeable Sodium Percentage	0.6	%		0.1		USDA20a	11/16/09 07:56 / wj
INORGANICS							
Fluoride	0.30	mg/kg		0.10		E300.0	11/21/09 11:11 / hm
Sulfate, sat. paste	0.34	meq/L		0.021		E300.0	11/21/09 11:11 / hm
Chloride, sat. paste	0.34	meq/L		0.028		E300.0	11/21/09 11:11 / hm
METALS, DTPA EXTRACTABLE							
Zinc	1.01	mg/kg		0.02		SW6010B	12/17/09 18:12 / sld
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.04		E270.3	11/24/09 10:19 / eau

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 Tier II (formerly referred to as AMPP)
Lab ID: H09110004-036
Client Sample ID: T2/OAA-10 (0-6") [0-6]

Report Date: 12/18/09
Collection Date: 10/27/09 17:00
Date Received: 10/30/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, CACL2 EXTRACTABLE							
Barium	2.3	mg/kg		0.20		SW6010B	12/04/09 12:09 / sld
Boron	0.32	mg/kg		0.20		SW6010B	12/04/09 12:09 / sld

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 Tier II (formerly referred to as AMPP)
Lab ID: H09110004-037
Client Sample ID: T2/OAA-10 (6-12") [6-12]

Report Date: 12/18/09
Collection Date: 10/27/09 17:00
Date Received: 10/30/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.9	s.u.		0.1		ASAM10-3.2	11/11/09 08:13 / rrr
Conductivity, sat. paste	0.36	mmhos/cm		0.01		ASA10-3	11/12/09 15:49 / sah
Saturation	42.3	%		0.1		USDA27a	11/11/09 08:12 / wj
Calcium, sat. paste	1.87	meq/l		0.05		SW6010B	12/01/09 14:45 / sld
Magnesium, sat. paste	1.32	meq/l		0.08		SW6010B	12/01/09 14:45 / sld
Sodium, sat. paste	0.67	meq/l		0.04		SW6010B	12/01/09 14:45 / sld
Sodium Adsorption Ratio (SAR)	0.53	unitless		0.01		Calculation	11/16/09 07:56 / wj
Bicarbonate, sat. paste	3.22	meq/L		0.02		ASA10-3	12/08/09 13:59 / wj
PHYSICAL CHARACTERISTICS							
Sand	30	%		1		ASA15-5	11/11/09 15:29 / wj
Silt	48	%		1		ASA15-5	11/11/09 15:29 / wj
Clay	22	%		1		ASA15-5	11/11/09 15:29 / wj
Texture	L	unitless				ASA15-5	11/11/09 15:29 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	19.5	meq/100g		0.09		SW6010B	11/15/09 21:56 / sld
Lime as CaCO3	7.8	%		0.1		USDA23c	11/16/09 00:00 / sah
Nitrate as N, KCL Extract	4.2	mg/kg		1.0		ASA38-3	11/17/09 16:37 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.18	meq/100g		0.0044		SW6010B	11/14/09 14:46 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.2	meq/100g		0.1		Calculation	11/16/09 07:56 / wj
Exchangeable Sodium Percentage	0.8	%		0.1		USDA20a	11/16/09 07:56 / wj
INORGANICS							
Sulfate, sat. paste	0.37	meq/L		0.021		E300.0	11/21/09 11:27 / hm
Chloride, sat. paste	0.30	meq/L		0.028		E300.0	11/21/09 11:27 / hm

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 Tier II (formerly referred to as AMPP)
Lab ID: H09110004-038
Client Sample ID: T2/OAA-10 (12-24") [12-24]

Report Date: 12/18/09
Collection Date: 10/27/09 17:00
Date Received: 10/30/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.8	s.u.		0.1		ASAM10-3.2	11/11/09 08:14 / rrr
Conductivity, sat. paste	0.43	mmhos/cm		0.01		ASA10-3	11/12/09 15:49 / sah
Saturation	39.1	%		0.1		USDA27a	11/11/09 08:12 / wj
Calcium, sat. paste	1.72	meq/l		0.05		SW6010B	12/01/09 14:48 / sld
Magnesium, sat. paste	1.39	meq/l		0.08		SW6010B	12/01/09 14:48 / sld
Sodium, sat. paste	1.64	meq/l		0.04		SW6010B	12/01/09 14:48 / sld
Sodium Adsorption Ratio (SAR)	1.3	unitless		0.01		Calculation	11/16/09 07:56 / wj
Bicarbonate, sat. paste	4.02	meq/L		0.02		ASA10-3	12/08/09 14:06 / wj
PHYSICAL CHARACTERISTICS							
Sand	42	%		1		ASA15-5	11/11/09 15:29 / wj
Silt	38	%		1		ASA15-5	11/11/09 15:29 / wj
Clay	20	%		1		ASA15-5	11/11/09 15:29 / wj
Texture	L	unitless				ASA15-5	11/11/09 15:29 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	16.0	meq/100g		0.09		SW6010B	11/15/09 21:58 / sld
Lime as CaCO3	8.3	%		0.1		USDA23c	11/16/09 00:00 / sah
Nitrate as N, KCL Extract	3.5	mg/kg		1.0		ASA38-3	11/17/09 16:59 / stp
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.27	meq/100g		0.0044		SW6010B	11/14/09 14:49 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.2	meq/100g		0.1		Calculation	11/16/09 07:56 / wj
Exchangeable Sodium Percentage	1.3	%		0.1		USDA20a	11/16/09 07:56 / wj
INORGANICS							
Sulfate, sat. paste	0.43	meq/L		0.021		E300.0	11/21/09 11:43 / hm
Chloride, sat. paste	0.23	meq/L		0.028		E300.0	11/21/09 11:43 / hm

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 Tier II (formerly referred to as AMPP)
Lab ID: H09110004-039
Client Sample ID: T2/OAA-10 (24-36") [24-36]

Report Date: 12/18/09
Collection Date: 10/27/09 17:00
Date Received: 10/30/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	8.1	s.u.		0.1		ASAM10-3.2	11/11/09 08:14 / rrr
Conductivity, sat. paste	0.59	mmhos/cm		0.01		ASA10-3	11/12/09 15:50 / sah
Saturation	33.9	%		0.1		USDA27a	11/11/09 08:12 / wj
Calcium, sat. paste	1.37	meq/l		0.05		SW6010B	12/01/09 14:51 / sld
Magnesium, sat. paste	1.21	meq/l		0.08		SW6010B	12/01/09 14:51 / sld
Sodium, sat. paste	3.87	meq/l		0.04		SW6010B	12/01/09 14:51 / sld
Sodium Adsorption Ratio (SAR)	3.4	unitless		0.01		Calculation	11/16/09 07:56 / wj
Bicarbonate, sat. paste	3.07	meq/L		0.02		ASA10-3	12/08/09 14:25 / wj
PHYSICAL CHARACTERISTICS							
Sand	44	%		1		ASA15-5	11/11/09 15:29 / wj
Silt	41	%		1		ASA15-5	11/11/09 15:29 / wj
Clay	15	%		1		ASA15-5	11/11/09 15:29 / wj
Texture	L	unitless				ASA15-5	11/11/09 15:29 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	13.5	meq/100g		0.09		SW6010B	11/15/09 22:01 / sld
Lime as CaCO3	8.0	%		0.1		USDA23c	11/16/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.67	meq/100g		0.0044		SW6010B	11/14/09 14:52 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.5	meq/100g		0.1		Calculation	11/16/09 07:56 / wj
Exchangeable Sodium Percentage	4.0	%		0.1		USDA20a	11/16/09 07:56 / wj
INORGANICS							
Chloride, sat. paste	0.28	meq/L		0.028		E300.0	11/21/09 12:00 / hm

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 Tier II (formerly referred to as AMPP)
Lab ID: H09110004-040
Client Sample ID: T2/OAA-10 (36-60") [36-60]

Report Date: 12/18/09
Collection Date: 10/27/09 17:00
Date Received: 10/30/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	8.1	s.u.		0.1		ASAM10-3.2	11/11/09 08:15 / rrr
Conductivity, sat. paste	1.09	mmhos/cm		0.01		ASA10-3	11/12/09 15:50 / sah
Saturation	38.5	%		0.1		USDA27a	11/11/09 08:12 / wj
Calcium, sat. paste	2.58	meq/l		0.05		SW6010B	12/01/09 14:53 / sld
Magnesium, sat. paste	3.04	meq/l		0.08		SW6010B	12/01/09 14:53 / sld
Sodium, sat. paste	6.29	meq/l		0.04		SW6010B	12/01/09 14:53 / sld
Sodium Adsorption Ratio (SAR)	3.8	unitless		0.01		Calculation	11/16/09 07:56 / wj
Bicarbonate, sat. paste	2.05	meq/L		0.02		ASA10-3	12/08/09 14:30 / wj
PHYSICAL CHARACTERISTICS							
Sand	34	%		1		ASA15-5	11/11/09 15:29 / wj
Silt	44	%		1		ASA15-5	11/11/09 15:29 / wj
Clay	22	%		1		ASA15-5	11/11/09 15:29 / wj
Texture	L	unitless				ASA15-5	11/11/09 15:29 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	16.0	meq/100g		0.09		SW6010B	11/15/09 22:04 / sld
Lime as CaCO3	8.3	%		0.1		USDA23c	11/16/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.1	meq/100g		0.0044		SW6010B	11/14/09 14:54 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.9	meq/100g		0.1		Calculation	11/16/09 07:56 / wj
Exchangeable Sodium Percentage	5.6	%		0.1		USDA20a	11/16/09 07:56 / wj
INORGANICS							
Fluoride	0.70	mg/kg		0.10		E300.0	11/21/09 12:16 / hm
Chloride, sat. paste	0.38	meq/L		0.028		E300.0	11/21/09 12:16 / hm
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.04		E270.3	11/24/09 10:21 / eau
METALS, CaCl2 EXTRACTABLE							
Barium	0.43	mg/kg		0.20		SW6010B	12/04/09 12:12 / sld
Boron	0.32	mg/kg		0.20		SW6010B	12/04/09 12:12 / sld

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 Tier II (formerly referred to as AMPP)
Lab ID: H09110004-041
Client Sample ID: T2/OAA-10 (60-96") [60-96]

Report Date: 12/18/09
Collection Date: 10/27/09 17:00
Date Received: 10/30/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	8.2	s.u.		0.1		ASAM10-3.2	11/11/09 08:16 / rrr
Conductivity, sat. paste	1.76	mmhos/cm		0.01		ASA10-3	11/12/09 15:52 / sah
Saturation	41.6	%		0.1		USDA27a	11/11/09 08:12 / wj
Calcium, sat. paste	3.65	meq/l		0.05		SW6010B	12/01/09 15:06 / sld
Magnesium, sat. paste	6.39	meq/l		0.08		SW6010B	12/01/09 15:06 / sld
Sodium, sat. paste	10.9	meq/l		0.04		SW6010B	12/01/09 15:06 / sld
Sodium Adsorption Ratio (SAR)	4.9	unitless		0.01		Calculation	11/16/09 07:56 / wj
Bicarbonate, sat. paste	1.70	meq/L		0.02		ASA10-3	12/08/09 14:40 / wj
PHYSICAL CHARACTERISTICS							
Sand	34	%		1		ASA15-5	11/11/09 15:29 / wj
Silt	46	%		1		ASA15-5	11/11/09 15:29 / wj
Clay	20	%		1		ASA15-5	11/11/09 15:29 / wj
Texture	L	unitless				ASA15-5	11/11/09 15:29 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	16.0	meq/100g		0.09		SW6010B	11/15/09 22:14 / sld
Lime as CaCO3	9.1	%		0.1		USDA23c	11/16/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.6	meq/100g		0.0044		SW6010B	11/14/09 15:04 / sld
EXCHANGEABLES							
Exchangeable Sodium	1.2	meq/100g		0.1		Calculation	11/16/09 07:56 / wj
Exchangeable Sodium Percentage	7.3	%		0.1		USDA20a	11/16/09 07:56 / wj
INORGANICS							
Chloride, sat. paste	0.43	meq/L		0.028		E300.0	11/21/09 12:49 / hm

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 Tier II (formerly referred to as AMPP)
Lab ID: H09110004-042
Client Sample ID: T2/OAA-10 (0-2") [0-2]

Report Date: 12/18/09
Collection Date: 10/27/09 17:00
Date Received: 10/30/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.5	s.u.		0.1		ASAM10-3.2	11/11/09 08:16 / rrr
Conductivity, sat. paste	0.55	mmhos/cm		0.01		ASA10-3	11/12/09 15:52 / sah
Saturation	53.4	%		0.1		USDA27a	11/11/09 08:13 / wj
Calcium, sat. paste	3.47	meq/l		0.05		SW6010B	12/01/09 15:09 / sld
Magnesium, sat. paste	1.38	meq/l		0.08		SW6010B	12/01/09 15:09 / sld
Sodium, sat. paste	0.53	meq/l		0.04		SW6010B	12/01/09 15:09 / sld
Sodium Adsorption Ratio (SAR)	0.34	unitless		0.01		Calculation	11/16/09 07:56 / wj
Bicarbonate, sat. paste	4.98	meq/L		0.02		ASA10-3	12/08/09 14:46 / wj
PHYSICAL CHARACTERISTICS							
Sand	36	%		1		ASA15-5	11/11/09 15:29 / wj
Silt	44	%		1		ASA15-5	11/11/09 15:29 / wj
Clay	20	%		1		ASA15-5	11/11/09 15:29 / wj
Texture	L	unitless				ASA15-5	11/11/09 15:29 / wj
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	23.5	meq/100g		0.09		SW6010B	11/15/09 22:17 / sld
Lime as CaCO3	6.4	%		0.1		USDA23c	11/16/09 00:00 / sah
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.13	meq/100g		0.0044		SW6010B	11/14/09 15:07 / sld
EXCHANGEABLES							
Exchangeable Sodium	0.1	meq/100g		0.1		Calculation	11/16/09 07:56 / wj
Exchangeable Sodium Percentage	0.4	%		0.1		USDA20a	11/16/09 07:56 / wj
INORGANICS							
Chloride, sat. paste	0.29	meq/L		0.028		E300.0	11/21/09 13:05 / hm

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

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