COMPREHENSIVE SITE INVESTIGATION/ REMEDIATION OBJECTIVE REPORT

Equistar Chemicals, LP – Tuscola Plant
625 East US Highway 36
Tuscola, Illinois

ILD005078126 – Douglas County - 0418080002

Volume 2 of 2

Prepared for

Equistar Chemicals, LP
Tuscola, Illinois

Prepared by

Harry R. Walton
Kelron Environmental
Environmental Operations Inc.

September 2005

Appendix A

Appendix A

Boring Logs and Illinois EPA Well Construction Logs

KELRON Environmental

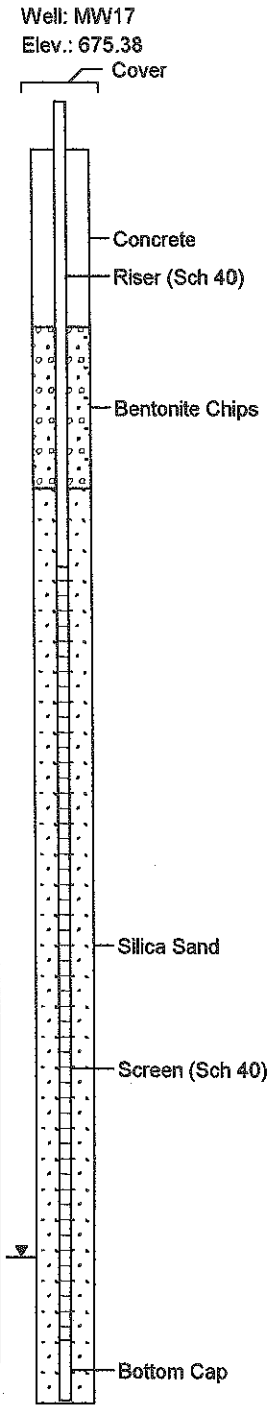
LOG OF BORING MW17

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County

Southwestern Corner (SRP Well)

Date Completed	: 7/11/05	Driller	: Victor Perez
Hole Diameter	: 8.25	Geologist	: Stuart Cravens
Drilling Method	: Hollow-stem auger	Land Surface Elevation	: 672.6
Sampling Method	: MacroCore Sampler (Geoprobe)	Top of Casing Elevation	: 675.38
Drilling Company	: Transhield Underground	X,Y Coordinates	: 997941, 1138293

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	Silty CLAY w/ trace sand and gravel, grass and roots to 12 inches, high organics, medium brown, dry		1	46 / 60	MC01	>4.5	0.1
			2			3.5	0.1
2	- light brown w/ yellow-brown mottling, moist		3			2.5	0.1
	- low to med plasticity, yellow-orange w/ black mottling		4			2.5	0.1
4	SOIL SAMPLE: TPH / OM		5		MW17-05	1.5	0.1
			6	60 / 60	MC02	2.25	0.1
6	- med brown w/ lt gray mottling		7			1.75	0.1
		CL	8			1.5	0.1
8	- hard, non-plastic		9			>4.5	0.1
			10			>4.5	0.1
10	- soft, high plasticity, dark brown		11	60 / 60	MC03	>4.5	0.1
	- yellow-organge w/ lt gray mottling		12			>4.5	0.1
12	- green-gray		13			>4.5	0.1
			14			>4.5	0.1
14	- w/ dark gray mottling		15			>4.5	0.1
16	END PROBEHOLE AT 15 FEET BLS						



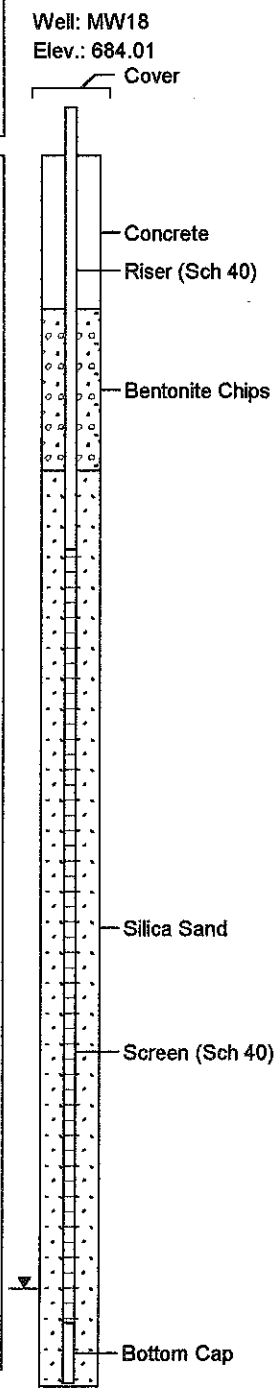
KELRON Environmental

LOG OF BORING MW18

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County
Former Fractionation Process Area

Date Completed	: 7/11/05	Driller	: Victor Perez
Hole Diameter	: 8.25	Geologist	: Stuart Cravens
Drilling Method	: Hollow-stem auger	Land Surface Elevation	: 681.6
Sampling Method	: MacroCore Sampler (Geoprobe)	Top of Casing Elevation	: 684.01
Drilling Company	: Transhield Underground	X,Y Coordinates	: 979021, 1138317

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	FILL - Silty CLAY w/ trace sand, grass and roots to 18 inches, dark brown, dry	FL	1	54 / 60	MC01		
			2				1.1
2			3				0.4
	- gravel and concrete						
	- sand, fine to medium, brown		4			3.25	0.9
4	Silty CLAY, dark brown - low plasticity, dark gray, moist	CL	5			2.5	0.4
	- trace sand, med plasticity, yellow-orange		6	52 / 60	MC02	1.0	0.3
6			7			1.0	0.2
	- high plasticity, very moist		8			0.75	0.1
8			9			1.0	0.1
	- trace sand and gravel		10			1.25	0.1
10	- wet		11	60 / 60	MC03	<0.25	
	- few sand and gravel		12			<0.25	
12	- trace sand and gravel, yellow orange w/ lt gray mottling, moist		13			1.5	
			14			2.5	
14	- green-gray		15			>4.5	
16	END PROBEHOLE AT 15 FEET BLS						



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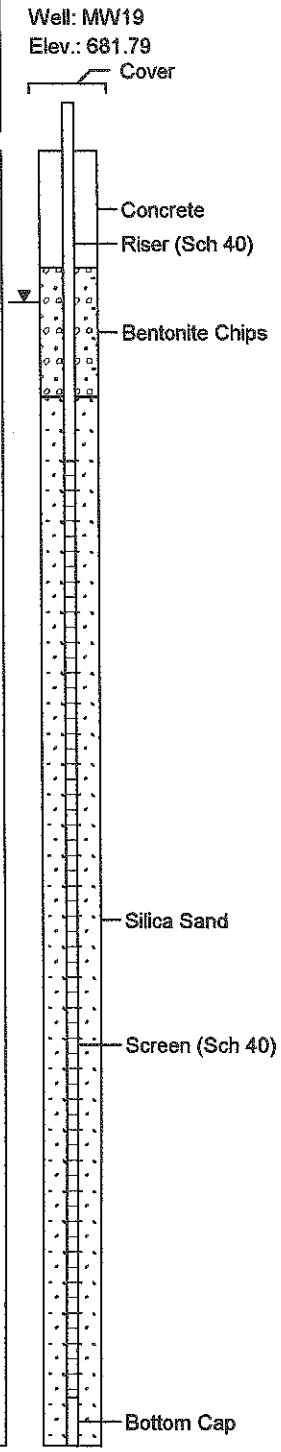
LOG OF BORING MW19

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County

Former Fractionation Process Area (SRP Well)

Date Completed	: 7/12/05	Driller	: Victor Perez
Hole Diameter	: 8.25	Geologist	: Stuart Cravens
Drilling Method	: Hollow-stem auger	Land Surface Elevation	: 679.2
Sampling Method	: MacroCore Sampler (Geoprobe)	Top of Casing Elevation	: 681.79
Drilling Company	: Transhield Underground	X,Y Coordinates	: 979047, 1138140

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	Silty CLAY, high organics, grass and roots to 14 inches, dark brown, moist	CL	1	60 / 60	MC01	1.25	0.1
			2			4.0	0.1
	SOIL SAMPLE: TPH / OM		3		MW19-03	1.75	0.1
	- high plasticity, greenish gray		4			1.0	0.1
	- with light gray mottling		5			3.5	0.1
5	- trace sand and gravel, med to high plasticity		6	58 / 60	MC02	0.75	0.1
			7			3.25	0.1
			8			1.75	0.1
			9			2.5	0.1
	- 1.2-inch lense of fine to coarse sand, trace fine gravel		10			3.0	0.1
10			11	58 / 60	MC03	2.25	0.1
			12			4.0	0.1
			13			4.0	0.1
			14			>4.5	0.1
	- low to non-plastic, light gray		15			>4.5	0.1
15			16	47 / 60	MC04		
			17				
			18				
			19				
	END PROBEHOLE AT 20 FEET BLS		20				
20							



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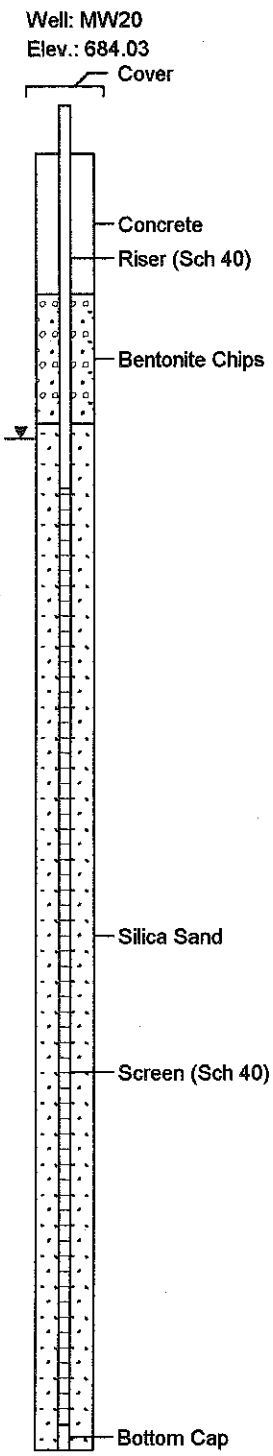
LOG OF BORING MW20

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County
West-Central Downgradient (SRP Well)

Date Completed	: 7/12/05	Driller	: Victor Perez
Hole Diameter	: 8.25	Geologist	: Stuart Cravens
Drilling Method	: Hollow-stem auger	Land Surface Elevation	: 681.7
Sampling Method	: MacroCore Sampler (Geoprobe)	Top of Casing Elevation	: 684.03
Drilling Company	: Transhield Underground	X,Y Coordinates	: 979118,1138977

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	Silty CLAY, trace sand and gravel, high organics, grass and roots to 20 inches, dark brown, dry	CL	1	57 / 60	MC01	1	0.1
			2			1.5	0.1
	- low plasticity		3			4.0	0.1
	- trace roots, medium plasticity, yellow-orange grading to brown mottling, moist		4			>4.5	0.1
	SOIL SAMPLE: TPH / OM		5		MW20-5	2.5	0.1
5			6	58 / 60	MC02	2	0.1
			7			1	
	- yellow-orange to green-gray		8			1	
			9			2.25	
			10			2.75	
10			11	60 / 60	MC03	0.75	
	- little sand and gravel, wet		12			1.25	
			13			1.5	
	- moist		14			3	
	- trace sand and gravel, gray, moist		15			2.25	
15			16	60 / 60	MC04		
			17				
			18				
			19				
	END PROBEHOLE AT 20 FEET BLS		20				
20							



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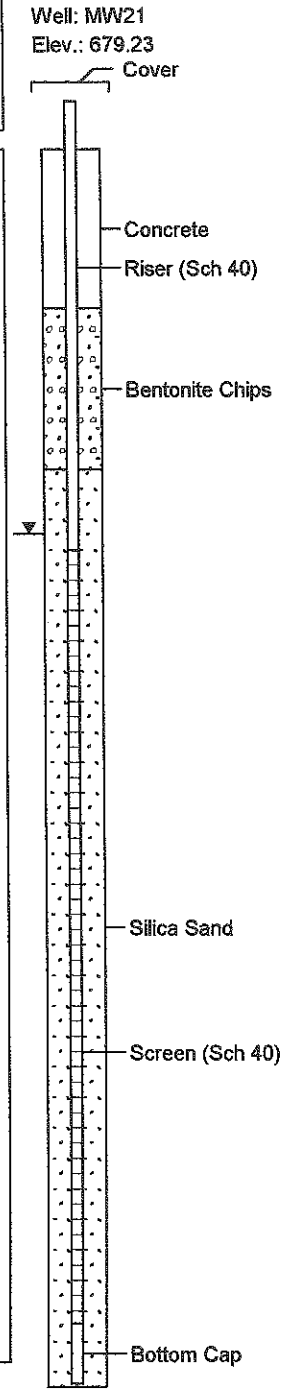
LOG OF BORING MW21

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County

West-Central Downgradient (SRP Well)

Date Completed	: 7/12/05	Driller	: Victor Perez
Hole Diameter	: 8.25	Geologist	: Stuart Cravens
Drilling Method	: Hollow-stem auger	Land Surface Elevation	: 676.9
Sampling Method	: MacroCore Sampler (Geoprobe)	Top of Casing Elevation	: 679.23
Drilling Company	: Transhield Underground	X,Y Coordinates	: 978779,1139296

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	Silty CLAY, high organics, roots, dark brown, dry		1	40 / 60	MC01		0.1
	- non-plastic, light brown		2			2	0.1
2	- trace sand, organics, roots, dark brown, moist		3		MW21-03	4	0.1
	SOIL SAMPLE: TPH / OM						
	- green-gray		4			3.75	0.1
4			5			3	0.1
	- high plasticity, light gray w/ yellow-orange mottling		6	60 / 60	MC02	1.75	0.1
6			7			1.75	0.1
	- trace sand and gravel	CL	8			0.75	0.1
8			9			0.5	0.1
			10			0.25	0.1
10	- green-gray, wet		11	60 / 60	MC03	<0.25	
			12			<0.25	
12			13			<0.25	
	- medium gray with yellow-orange mottling		14			<0.25	
14	- little sand and gravel (fine-coarse), very hard, non-plastic, olive gray, moist		15			>4.5	
	END PROBEHOLE AT 15 FEET BLS						
16							



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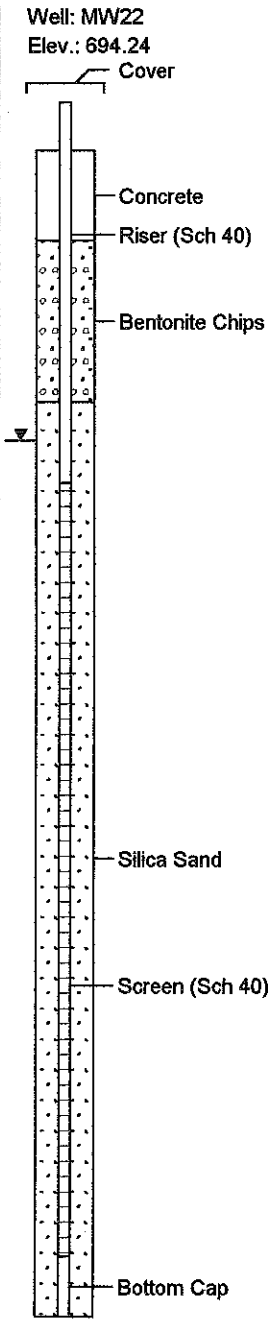
LOG OF BORING MW22

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County
Former Ethyl Chloride Production Area

Date Completed	: 7/13/05	Driller	: Victor Perez
Hole Diameter	: 8.25	Geologist	: Stuart Cravens
Drilling Method	: Hollow-stem auger	Land Surface Elevation	: 692.0
Sampling Method	: MacroCore Sampler (Geoprobe)	Top of Casing Elevation	: 694.24
Drilling Company	: Transhield Underground	X,Y Coordinates	: 980793,1139409

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	FILL - Coarse gravel (CA6) with sand and clay, light brown, dry	FL	1	54 / 60	MC01	>4.5	50.9
	Silty CLAY, trace sand, high organics, very hard, non-plastic, dark gray to black, dry to moist						
	SOIL SAMPLE: TPH / OM		2		MW22-02	3.25	39.5
2	- olive gray, moist		3			3	61.1
	- light gray with olive-gray mottling		4			2.5	41.3
4			5			2	13.9
	- trace sand, soft, high plasticity, green-gray with light gray mottling		6	60 / 60	MC02	1.75	0.1
6			7			1.5	0.1
			8			1	0.1
8		CL	9			1.25	0.1
			10			2.5	0.1
10			11	60 / 60	MC03	0.75	0.1
			12			0.75	0.1
12	- little sand (fine to coarse) and gravel (fine), medium plasticity, dark green-gray		13			3.5	0.1
			14			2.25	0.1
14			15			3.75	0.1
16	END PROBEHOLE AT 15 FEET BLS						



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LOG OF BORING MW23

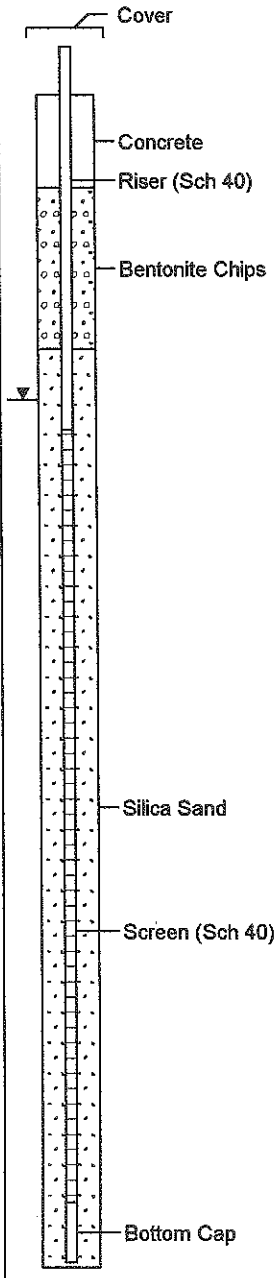
Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County

Former Tubular Water Reactor (TWR) Area

Date Completed	: 7/13/05	Driller	: Victor Perez
Hole Diameter	: 8.25	Geologist	: Stuart Cravens
Drilling Method	: Hollow-stem auger	Land Surface Elevation	: 692.0
Sampling Method	: MacroCore Sampler (Geoprobe)	Top of Casing Elevation	: 694.24
Drilling Company	: Transhield Underground	X,Y Coordinates	: 980872,1139402

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	FILL - Gravel (fine to coarse) with sand and clay, light gray, dry grading to moist	FL	1	49 / 60	MC01	2.5	--
	- wet						
	Silty CLAY, trace sand, medium plasticity, moist	CL	2			--	0.1
2	- dark green-gray, soft, high plasticity		3			--	23.5
			4			NS	NS
4	sample from 3 to 5 feet not recovered due to softness of clay		5			NS	NS
			6	40 / 60	MC02	NS	NS
6	- olive gray, wet		7			--	12.5
	- yellow-orange with light gray mottling		8			2.5	10.8
8	- moist		9			2.5	18.1
			10			>4.5	13.8
10	- green-gray, wet		11	51 / 60	MC03	<0.25	14.3
	- trace to little sand and gravel, very soft		12			<0.25	8.4
12	- medium plasticity, moist		13			3.75	7.4
	- little sand and gravel, low plasticity		14			>4.5	9.3
14	- medium to high plasticity, medium gray, moist		15			1.25	8.2
16	END PROBEHOLE AT 15 FEET BLS						

Well: MW23
Elev.: 694.74



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Environmental

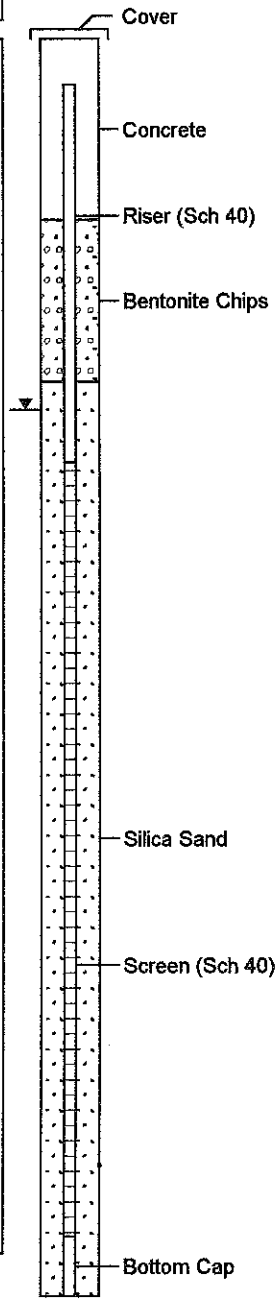
LOG OF BORING MW24

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County
Chemical Loading Area

Date Completed	: 7/13/05	Driller	: Victor Perez
Hole Diameter	: 8.25	Geologist	: Stuart Cravens
Drilling Method	: Hollow-stem auger	Land Surface Elevation	: 689.0
Sampling Method	: MacroCore Sampler (Geoprobe)	Top of Casing Elevation	: 688.41
Drilling Company	: Transhield Underground	X,Y Coordinates	: 980607,1140010

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	FILL - Gravel (CA6) - top 6 inches - Sand, fine to coarse, brown, wet	FL	1	36 / 60	MC01	--	--
	Silty CLAY, black, high plasticity, moist - dark gray to green-gray	CL	2			4	0.1
2			3			2	0.1
			4			2	0.1
4			5			2	3.9
			6	58 / 60	MC02	1.5	0.1
6	Soil Sample: TPH / OM		7		MW24-07	1.5	0.1
			8			2	0.5
8	- very soft, wet		9			1	7.0
			10			1.75	13.7
10	- moist		11	58 / 60	MC03	0.5	0.1
	- wet		12			<0.25	0.1
12	- trace sand and gravel, medium to low plasticity, yellow-orange - olive gray		13			2.25	0.1
			14			1.5	0.1
14	- medium gray		15			3.5	0.1
16	END PROBEHOLE AT 15 FEET BLS						

Well: MW24
Elev.: 688.41



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KELRON
Environmental

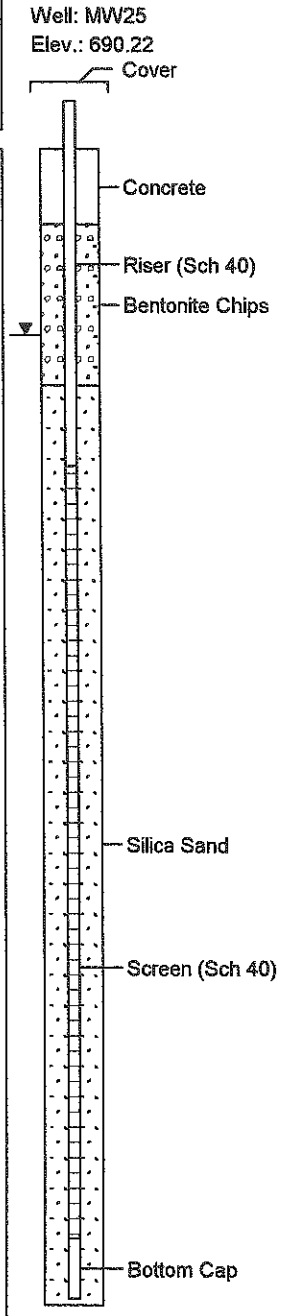
LOG OF BORING MW25

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County

Chemical Loading Area

Date Completed	: 7/13/05	Driller	: Victor Perez
Hole Diameter	: 8.25	Geologist	: Stuart Cravens
Drilling Method	: Hollow-stem auger	Land Surface Elevation	: 687.8
Sampling Method	: MacroCore Sampler (Geoprobe)	Top of Casing Elevation	: 690.22
Drilling Company	: Transhield Underground	X,Y Coordinates	: 980586,1139934

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	FILL - Gravel (CA6) - top 4 inches - gravel with sand and clay, gray, wet	FL	1	40 / 60	MC01	--	0.1
	- clay with sand and gravel, black		2			1.5	0.1
2	Silty CLAY, soft, medium plasticity, green-gray, moist Sandy CLAY, wet	CL	3			0.75	0.1
			4			1	0.1
4			5			--	--
			6	60 / 60	MC02	<0.25	0.1
6	Silty CLAY with trace sand, low plasticity, green-gray, moist - non-plastic, yellow-orange		7			1.75	0.1
			8			>4.5	0.1
8			9			>4.5	0.1
			10			>4.5	0.1
10	- green-gray, wet		11	60 / 60	MC03	>4.5	0.1
	- few sand and gravel		12			<0.25	0.1
12			13			<0.25	0.1
	- little sand and gravel, very hard, green-gray grading to medium gray, dry		14			>4.5	0.1
14			15			>4.5	0.1
16	END PROBEHOLE AT 15 FEET BLS						



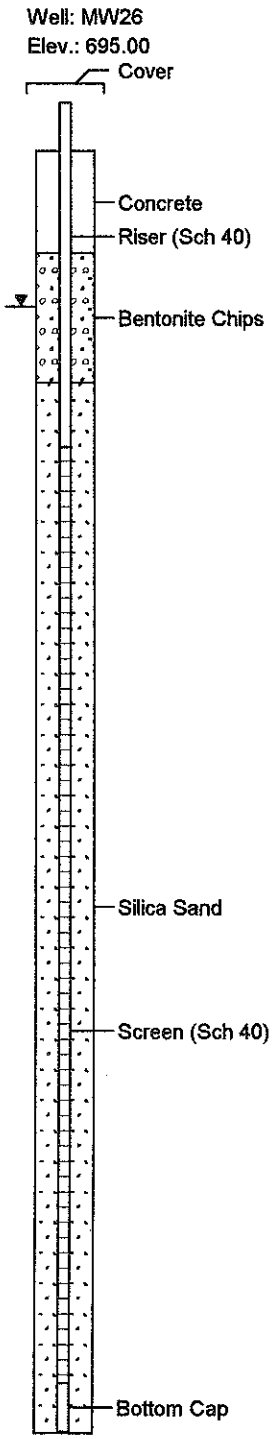
KELRON
Environmental

LOG OF BORING MW26

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County
Former Polyethylene Production Area

Date Completed	: 7/14/05	Driller	: Victor Perez
Hole Diameter	: 8.25	Geologist	: Stuart Cravens
Drilling Method	: Hollow-stem auger	Land Surface Elevation	: 692.2
Sampling Method	: MacroCore Sampler (Geoprobe)	Top of Casing Elevation	: 695.00
Drilling Company	: Transhield Underground	X,Y Coordinates	: 980624,1138922

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	FILL - Gravel (CA6)						
	- Sand, fine to medium, loose, brown, moist		1	24 / 60	MC01		0.1
	- Sand and gravel (fine to coarse), well graded, brown to gray, hydrocarbon odor, wet		2				0.1
			3				0.1
			4				0.1
			5				106
5	- dark gray		6	60 / 60	MC02		58.8
		FL	7				51.2
			8				3.9
	- medium brown		9				0.1
			10				0.1
10			11	60 / 60	MC03		0.1
			12				0.1
			13				0.1
	Silty CLAY with trace sand and gravel, medium plasticity, green-gray, moist		14				0.1
	- low plasticity, very hard		15				0.1
15			16	60 / 60	MC04		
	- gray	CL	17				
			18				
			19				
	END PROBEHOLE AT 20 FEET BLS		20				
20							



KELRON Environmental

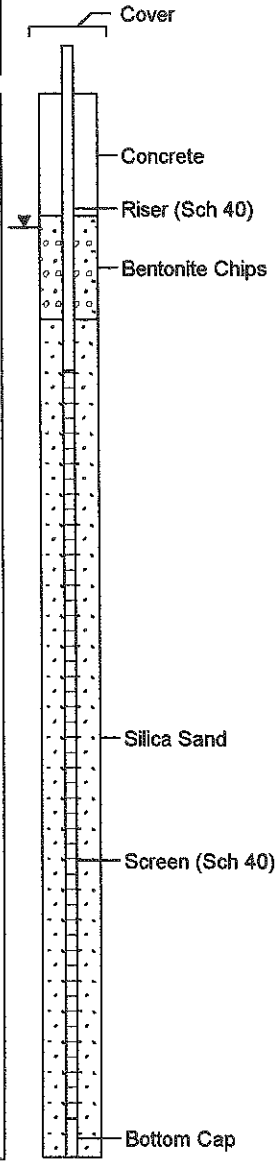
LOG OF BORING MW27

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County
Former Polyethylene Production Area

Date Completed	: 7/14/05	Driller	: Victor Perez
Hole Diameter	: 8.25	Geologist	: Stuart Cravens
Drilling Method	: Hollow-stem auger	Land Surface Elevation	: 692.0
Sampling Method	: MacroCore Sampler (Geoprobe)	Top of Casing Elevation	: 694.17
Drilling Company	: Transhield Underground	X,Y Coordinates	: 980614,1139057

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	FILL - Gravel (CA6) top 5 inches; underlain by sand with clay, brown, moist	FL	1	41 / 60	MC01		
	- wet		2, 3, 4				
	Silty CLAY with trace sand and gravel, medium plasticity, gray with yellow-orange mottling, moist	CL	5				
5			6	53 / 60	MC02		
			7, 8, 9, 10				
10			11	60 / 60	MC03		
			12, 13, 14				
	- green-gray		15				
15	- low plasticity, hard to very hard, light to medium gray with occasional yellow-orange to brown mottling		16	60 / 60	MC04		
			17, 18, 19				
20	END PROBEHOLE AT 20 FEET BLS		20				
25							

Well: MW27
Elev.: 694.17



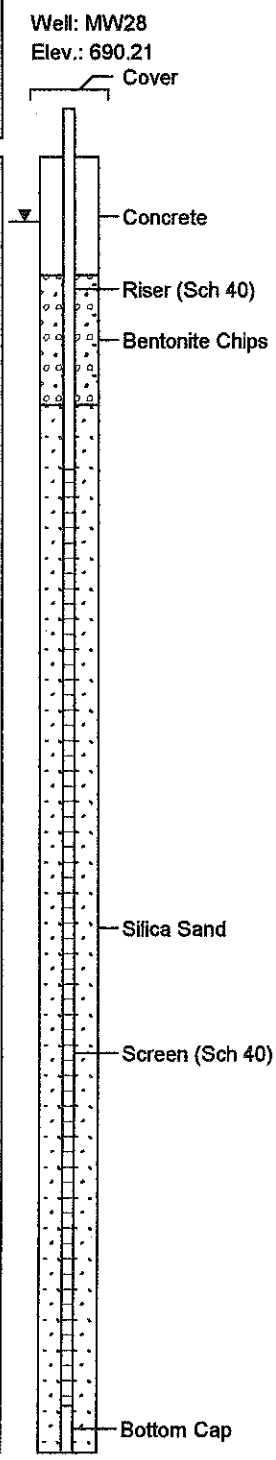
KELRON
Environmental

LOG OF BORING MW28

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County
Former Ethylene Production Area

Date Completed	: 7/14/05	Driller	: Victor Perez
Hole Diameter	: 8.25	Geologist	: Stuart Cravens
Drilling Method	: Hollow-stem auger	Land Surface Elevation	: 688.0
Sampling Method	: MacroCore Sampler (Geoprobe)	Top of Casing Elevation	: 690.21
Drilling Company	: Transhield Underground	X,Y Coordinates	: 980002,1138952

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	FILL - Gravel and sand (fine to coarse), brown, wet	FL	1	49 / 60	MC01	- -	0.1
	Silty CLAY, trace sand, high organics, medium plasticity, moist		2			3	0.1
	- high plasticity, dark gray						
	SAMPLE: TPH ./ OM		3		MW28-03	1.5	0.1
	- green-gray		4			1.25	0.1
			5			0.75	0.1
5			6	60 / 60	MC02	0.75	0.1
	SAMPLE: TPH / OM						
	- piece of brick and wood in 1-inch seam		7		MW28-07	1.25	0.1
	Silty CLAY, trace sand and gravel, medium plasticity, yellow-orange, moist	CL	8			1.75	0.1
	- Sandy CLAY to Clayey SAND (fine), light brown, wet	SC	9			4	0.1
	Silty CLAY, trace sand and gravel, yellow-orange, moist	CL	10			>4.5	0.1
10	- trace to few sand and gravel, very hard, green-gray, moist		11	60 / 60	MC03	>4.5	0.1
			12			>4.5	0.1
	- medium plasticity		13			>4.5	0.1
			14			>4.5	0.1
			15			>4.5	0.1
15	- low plasticity, light to medium gray		16	54 / 60	MC04	>4.5	0.1
			17			3.5	0.1
			18			2.25	0.1
			19			3	0.1
	END PROBEHOLE AT 20 FEET BLS		20			>4.5	0.1
20							



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KELRON
Environmental

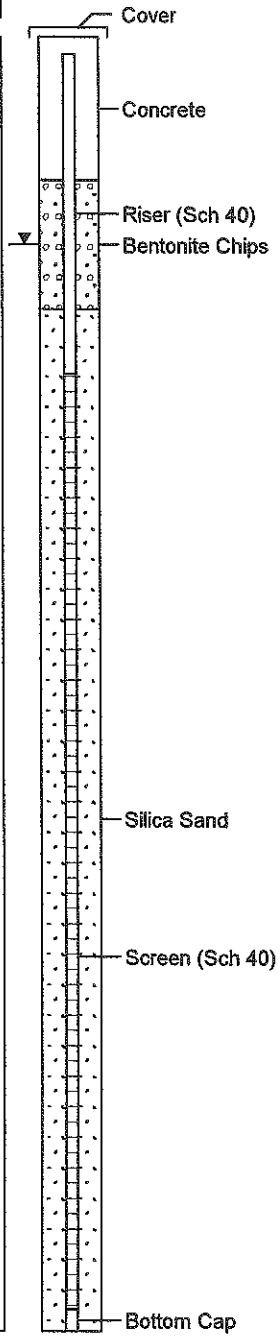
LOG OF BORING MW29

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County
Former Ethylene Production Area

Date Completed	: 7/14/05	Driller	: Victor Perez
Hole Diameter	: 8.25	Geologist	: Stuart Cravens
Drilling Method	: Hollow-stem auger	Land Surface Elevation	: 687.9
Sampling Method	: MacroCore Sampler (Geoprobe)	Top of Casing Elevation	: 687.68
Drilling Company	: Transhield Underground	X,Y Coordinates	: 980000, 1139217

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	FILL - Gravel, sand, concrete	FL	1	44 / 60	MC01	--	--
			2			3.25	0.1
	Silty CLAY, high organics, low to medium plasticity, black, dry	CL	3			2.5	90
	- moist		4			1.5	185
	- medium to high plasticity, dark gray		5			3	74.3
	- trace sand and gravel, green-gray						
5	- wet		6	54 / 60	MC02	0.75	--
			7			0.75	--
			8			0.75	--
	- light gray mottling, moist		9			0.75	--
			10			2	0.1
10			11	60 / 60	MC03	3.75	0.1
			12			2.25	0.1
			13			1.5	0.1
	- light gray with green-gray mottling		14			1.25	0.1
			15			1	0.1
15			16	43 / 60	MC04	0.75	
	- light to medium gray with occ. mottling		17			1	
			18			--	
			19			4	
	END PROBEHOLE AT 20 FEET BLS		20			>4.5	
20							

Well: MW29
Elev.: 687.68



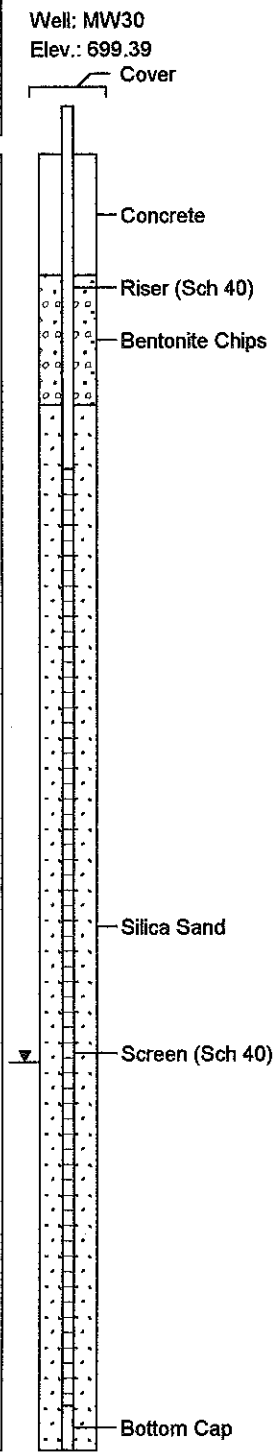
KELRON
Environmental

LOG OF BORING MW30

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County
Former Pilot Polymer Plant

Date Completed	: 7/15/05	Driller	: Victor Perez
Hole Diameter	: 8.25	Geologist	: Stuart Cravens
Drilling Method	: Hollow-stem auger	Land Surface Elevation	: 696.8
Sampling Method	: MacroCore Sampler (Geoprobe)	Top of Casing Elevation	: 699.39
Drilling Company	: Transhield Underground	X,Y Coordinates	: 982065,1139128

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	FILL - Silty CLAY, organics, roots, dark brown, dry - gravel, sand, clay	FL	1	40 / 60	MC01	--	0
			2			--	0
			3			--	0
			4			2.5	0
	Silty CLAY, medium to high plasticity, green-gray, moist	CL	5			1	0
5			6	45 / 60	MC02	--	0
			7			1	0
			8			0.75	0
	Clayey SAND (fine), medium gray, wet	SC					
	Silty CLAY, trace sand, med-high plasticity, green-gray, moist	CL	9			1.25	0
			10			3.25	0
10			11	60 / 60	MC03	1.75	0
	- light to medium gray with brown mottling		12			1	0
			13			3.25	0
			14			2	0
	- dark gray		15			3.5	0
15			16	52 / 60	MC04		
			17				
	- medium to dark gray with light gray mottling		18				
			19				
	END PROBEHOLE AT 20 FEET BLS		20				
20							



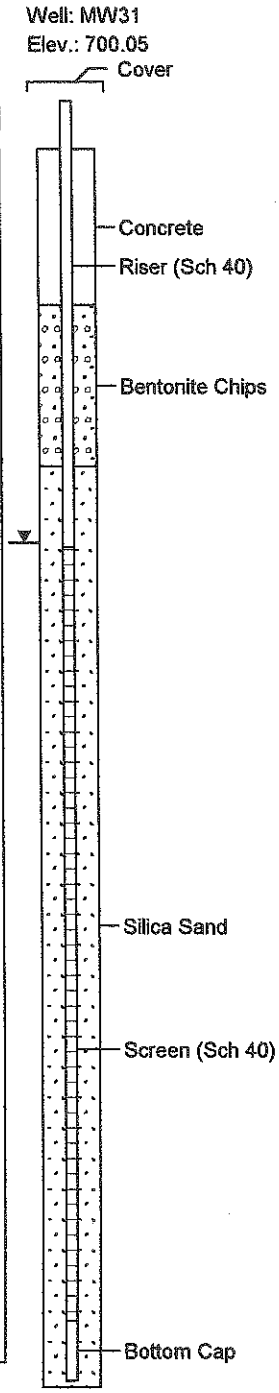
KELRON
Environmental

LOG OF BORING MW31

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County
DG Former Pilot Polymer Plant (SRP Well)

Date Completed	: 7/15/05	Driller	: Victor Perez
Hole Diameter	: 8.25	Geologist	: Stuart Cravens
Drilling Method	: Hollow-stem auger	Land Surface Elevation	: 697.7
Sampling Method	: MacroCore Sampler (Geoprobe)	Top of Casing Elevation	: 700.05
Drilling Company	: Transhield Underground	X,Y Coordinates	: 980607,1140010

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	Silty CLAY, trace sand and gravel, high organics, roots, dark brown, moist - light brown to yellow orange, dry	CL	1	60 / 60	MC01	3.75	0
			2			4	0
2	- moist		3			3	0
	- trace sand, dark brown SAMPLE: TPH / OM		4		MW31-04	3.25	0
4	- green-gray, wet		5			0.75	0
			6	60 / 60	MC02	0.75	0
6	- few sand, yellow-orange with light gray mottling		7			1	0
			8			0.75	0
8	Silty SAND (fine to med) with clay, trace fine gravel, poorly graded, light brown	SM	9			1	0
	Silty CLAY, some sand	CL	10			2.5	0
10	SAND (fine to coarse), well graded, light brown	SW	11	59 / 60	MC03	- -	
			12			- -	
12	Clayey SAND	SC					
	Silty CLAY, trace sand and gravel, hard, green-gray, moist	CL	13			3	
	- medium gray, moist		14			3.25	
14			15			4	
16	END PROBEHOLE AT 15 FEET BLS						



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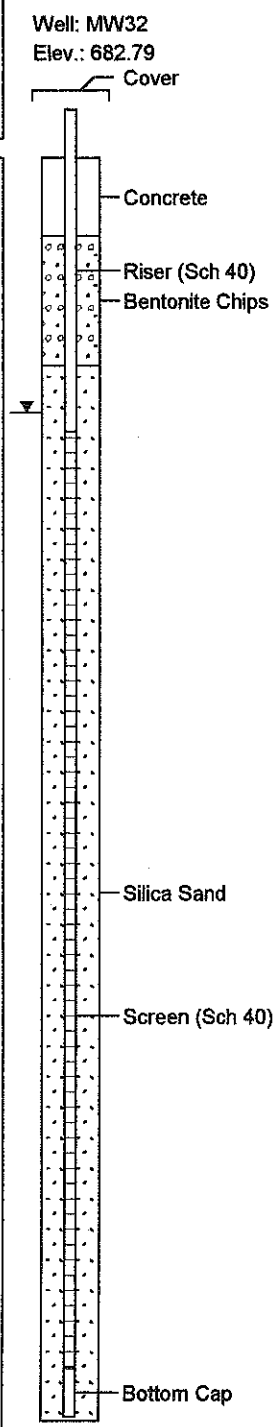
KELRON Environmental

LOG OF BORING MW32

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County
Former Fire Training Area

Date Completed	: 7/15/05	Driller	: Victor Perez
Hole Diameter	: 8.25	Geologist	: Stuart Cravens
Drilling Method	: Hollow-stem auger	Land Surface Elevation	: 680.6
Sampling Method	: MacroCore Sampler (Geoprobe)	Top of Casing Elevation	: 682.79
Drilling Company	: Transhield Underground	X,Y Coordinates	: 978675,1140451

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	FILL - Gravel - with sand and clay	FL	1	49 / 60	MC01	--	--
	Silty CLAY, dark brown, dry - medium plasticity, green-gray	CL	2			3.75	248
			3			>4.5	220
	- light gray with green-gray mottling, moist		4			3	189
			5			1.5	177
5	- high plasticity, yellow-orange mottling		6	46 / 60	MC02	--	149
			7			0.75	--
	- grading to medium brown - little sand and gravel, medium plasticity, yellow-orange		8			2.5	0.1
			9			>4.5	0.1
			10			4.25	0.1
10	- trace sand and gravel, low plasticity, brown		11	60 / 60	MC03	1.75	0.1
			12			2.75	0.1
			13			2.75	0.1
	- very hard, gray		14			3.75	0.1
			15			>4.5	0.1
15			16	35 / 60	MC04		
			17				
			18				
			19				
	END PROBEHOLE AT 20 FEET BLS		20				
20							



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KELRON Environmental

LOG OF BORING CL20

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County

Chemical Loading Area

Date Completed	: 7/13/05	Geologist	: Stuart Cravens
Hole Diameter	: 1.625"	Land Surface Elevation	: 689
Sampling Method	: MacroCore Sampler (Geoprobe)	X,Y Coordinates	: 980612,1140026
Drilling Company	: Transhield Underground Services, Inc.		
Driller	: Victor Perez		

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	FILL - Asphalt (2.5 inches) - gravel, sand, concrete, dry	FL	1	35 / 60	MC01	--	0.1
			2			--	0.1
2			3		CL20-03	2.5	0.1
	CLAY, high organics, medium plasticity, dark gray, moist Soil Sample: VOCs	CL	4			1.5	0.1
4			5			1.5	0.1
	- soft, olive gray		6	60 / 60	MC02	2	0.1
6			7			0.75	0.1
	- high plasticity, greenish gray Soil Sample: VOCs		8		CL20-08	1.75	23.9
	- very soft, olive-gray to dark gray mottling						
8			9			1.75	12.7
	- voids filled with black DNAPL, tar-like material						
	- light gray with olive-gray mottling, wet Soil Sample: VOCs / SVOCs		10		CL20-10	1.5	--
10	END PROBEHOLE AT 10 FEET BLS						

KELRON Environmental

LOG OF BORING CL21

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County
Chemical Loading Area

Date Completed	: 7/13/05	Geologist	: Stuart Cravens
Hole Diameter	: 1.625"	Land Surface Elevation	: 689
Sampling Method	: MacroCore Sampler (Geoprobe)	X,Y Coordinates	: 980641,1140027
Drilling Company	: Transhield Underground Services, Inc.		
Driller	: Victor Perez		

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	FILL - Asphalt (2.5 inches)						
	- wood, gravel, loose sand, dark gray, wet	FL	1	43 / 60	MC01	--	0.1
			2			--	0.1
2	Soil Sample: VOCs		3		CL21-03	1.75	0.1
	Silty CLAY, low to medium plasticity, olive gray grading to medium gray, moist	CL	4			2	0.1
4			5			4	0.1
			6	60 / 60	MC02	2.5	0.1
6	- green-gray with yellow-orange mottling		7			2	0.1
	Soil Sample: VOCs		8		CL21-08	3	14.9
	- light gray with yellow-orange mottling						
8			9			2.75	2.6
	- wet		10			1.25	8.6
	END PROBEHOLE AT 10 FEET BLS						
10							

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KELRON
Environmental

LOG OF BORING CL22

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County
Chemical Loading Area

Date Completed	: 7/13/05	Geologist	: Stuart Cravens
Hole Diameter	: 1.625"	Land Surface Elevation	: 689
Sampling Method	: MacroCore Sampler (Geoprobe)	X,Y Coordinates	: 980627,1140001
Drilling Company	: Transhield Underground Services, Inc.		
Driller	: Victor Perez		

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	FILL - Gravel - top 9 inches	FL	1	34 / 60	MC01	--	0.1
	Silty CLAY with sand and gravel, med gray, moist	CL					
	- trace sand, medium plasticity, olive gray		2			--	0.1
2	Soil Sample: VOCs		3		CL22-03	3	0.1
	CLAY, medium plasticity, black, moist						
	- trace sand and gravel, non-plastic, olive gray		4			2	0.1
4			5			>4.5	18.6
	Silty CLAY, medium plasticity, gray with yellow-orange mottling		6	36 / 60	MC02	--	--
6			7			3	17.1
	- trace sand and gravel, non-plastic						
	Soil Sample: VOCs		8		CL22-08	>4.5	20.6
8	- wet		9			4	0.1
			10			>4.5	--
	END PROBEHOLE AT 10 FEET BLS						
10							

KELRON Environmental

LOG OF BORING ET34

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County
Former Ethylene Production Area

Date Completed	: 7/14/05	Geologist	: Stuart Cravens
Hole Diameter	: 1.625"	Land Surface Elevation	: 688
Sampling Method	: MacroCore Sampler (Geoprobe)	X,Y Coordinates	: 980012,1138968
Drilling Company	: Transhield Underground Services, Inc.		
Driller	: Victor Perez		

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	FILL - Gravel and sand, brick, moist	FL	1	31 / 60	MC01	--	0.1
			2			--	0.1
2			3		ET34-03	2	0.1
	Silty CLAY, trace sand, very soft, high plasticity, olive gray, moist Soil Sample: VOCs	CL	4			1.5	0.1
4	Soil Sample: VOCs		5		ET34-05	0.75	0.1
	- little sand, green gray, wet		6	54 / 60	MC02	<0.25	0.1
6			7			<0.25	0.1
	Sandy CLAY, yellow-orange, wet		8			<0.25	0.1
	Clayey SAND (fine), light brown	SC					
8			9			--	0.1
	Silty CLAY, trace to little sand and gravel, moist	CL	10			--	0.1
10	END PROBEHOLE AT 10 FEET BLS						

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KELRON
Environmental

LOG OF BORING ET35

Comprehensive Site Investigation
Equistar Chemicals, LP; Tuscola, Illinois
IEPA Site Number 0418080002
ILD 005 078 126 Douglas County

Former Ethylene Production Area

Date Completed	: 7/14/05	Geologist	: Stuart Cravens
Hole Diameter	: 1.625"	Land Surface Elevation	: 688
Sampling Method	: MacroCore Sampler (Geoprobe)	X,Y Coordinates	: 980040,1138971
Drilling Company	: Transhield Underground Services, Inc.		
Driller	: Victor Perez		

Depth in Feet	DESCRIPTION	USCS	Samples	Recovery inches	Sample Type	Qp TSF	PID ppm
0	FILL - Gravel, sand, concrete, brick, dry to wet	FL	1	22 / 60	MC01	--	0.1
			2			--	0.1
2			3			--	0.1
	Soil Sample: VOCs		4		ET35-04	2.25	43.4
4	Silty CLAY, trace sand and gravel, olive gray, moist	CL	5			2.25	0.1
	- yellow-orange mottling						
	- trace to little sand and gravel, green-gray, moist		6	60 / 60	MC02	1.25	0.1
6			7			2.75	0.1
			8			3.5	0.1
8	- very hard		9			>4.5	0.1
	Soil Sample: VOCs		10		ET35-10	>4.5	0.1
10	END PROBEHOLE AT 10 FEET BLS						

Illinois Environmental Protection Agency Well Completion Report

SITE #: 0418080002 / ILD 005 078 126 COUNTY: Douglas WELL #: MW-17

SITE NAME: Equistar Chemicals, LP / Tuscola, Illinois BOREHOLE #: MW-17

STATE PLANE COORDINATE: X 977941 Y 1138293 (or) LATITUDE: LONGITUDE:

SURVEYED BY: HDC Engineering / Randy Evans ILL REGISTRATION #: 2442

DRILLING CONTRACTOR: Transhield Underground Services, Inc. DRILLER: Victor Perez

CONSULTING FIRM: Kelron Environmental GEOLOGIST: S. Cravens

DRILLING METHOD: Hollow stem auger DRILLING FLUIDS (TYPE): NA

LOGGED BY: S. Cravens DATE STARTED: 07/11/05 DATE FINISHED: 07/11/05

REPORT FORM COMPLETED BY: S. Cravens DATE : 07/26/05

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Bentonite

INSTALLATION METHOD: Poured

SETTING TIME: + 24 hours

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured and hydrated

SETTING TIME: ~ 15 minutes

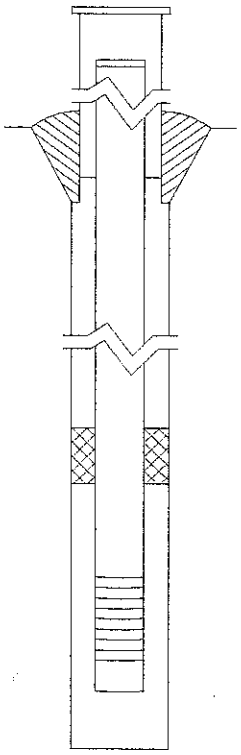
TYPE OF SAND PACK: Quartz

GRAIN SIZE: 40-60 U.S. Standard Series Sieve

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Quartz sand (IF APPLICABLE)

INSTALLATION METHOD: Poured



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
-------	-3.06	TOP OF PROTECTIVE CASING
675.38	-2.75	TOP OF RISER PIPE
672.60	0	GROUND SURFACE
670.43	2.17	TOP OF ANNULAR SEALANT
658.9	13.7	STATIC WATER LEVEL (AFTER COMPLETION)
670.43	2.17	TOP OF SEAL
668.43	4.17	TOP OF SANDPACK
667.43	5.17	TOP OF SCREEN
657.88	14.72	BOTTOM OF SCREEN
657.14	15.46	BOTTOM OF WELL
657.10	15.5	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.25
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	5
RISER PIPE LENGTH (ft)	8.27
BOTTOM OF SCREEN TO END CAP (ft)	0.39
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.55
TOTAL LENGTH OF CASING (ft)	18.21
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 0418080002 / ILD 005 078 126 COUNTY: Douglas WELL #: MW-18

SITE NAME: Equistar Chemicals, LP / Tuscola, Illinois BOREHOLE #: MW-18

STATE PLANE COORDINATE: X 979021 Y 1138317 (or) LATITUDE: LONGITUDE:

SURVEYED BY: HDC Engineering / Randy Evans ILL REGISTRATION #: 2442

DRILLING CONTRACTOR: Transhield Underground Services, Inc. DRILLER: Victor Perez

CONSULTING FIRM: Kelron Environmental GEOLOGIST: S. Cravens

DRILLING METHOD: Hollow stem auger DRILLING FLUIDS (TYPE): NA

LOGGED BY: S. Cravens DATE STARTED: 07/11/05 DATE FINISHED: 07/11/05

REPORT FORM COMPLETED BY: S. Cravens DATE : 07/26/05

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Bentonite

INSTALLATION METHOD: Poured

SETTING TIME: + 24 hours

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured and hydrated

SETTING TIME: ~ 15 minutes

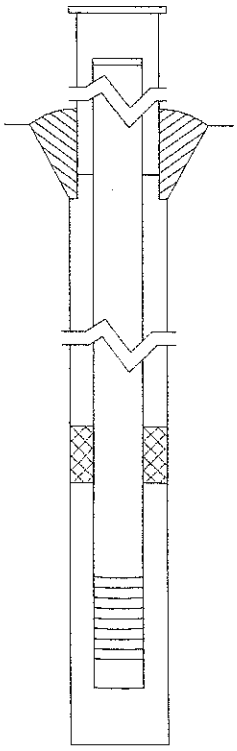
TYPE OF SAND PACK: Quartz

GRAIN SIZE: 40-60 U.S. Standard Series Sieve

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Quartz sand (IF APPLICABLE)

INSTALLATION METHOD: Poured



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
-------	-2.84	TOP OF PROTECTIVE CASING
684.01	-2.44	TOP OF RISER PIPE
681.60	0	GROUND SURFACE
679.73	1.87	TOP OF ANNULAR SEALANT
667.6	14.0	STATIC WATER LEVEL (AFTER COMPLETION)
679.73	1.87	TOP OF SEAL
677.73	3.87	TOP OF SANDPACK
676.73	4.87	TOP OF SCREEN
667.18	14.42	BOTTOM OF SCREEN
666.44	15.16	BOTTOM OF WELL
666.40	15.2	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.25
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	5
RISER PIPE LENGTH (ft)	7.66
BOTTOM OF SCREEN TO END CAP (ft)	0.39
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.55
TOTAL LENGTH OF CASING (ft)	17.60
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 0418080002 / ILD 005 078 126 COUNTY: Douglas WELL #: MW-19

SITE NAME: Equistar Chemicals, LP / Tuscola, Illinois BOREHOLE #: MW-19

STATE PLANE COORDINATE: X 979047 Y 1138140 (or) LATITUDE: LONGITUDE:

SURVEYED BY: HDC Engineering / Randy Evans ILL REGISTRATION #: 2442

DRILLING CONTRACTOR: Transhield Underground Services, Inc. DRILLER: Victor Perez

CONSULTING FIRM: Kelron Environmental GEOLOGIST: S. Cravens

DRILLING METHOD: Hollow stem auger DRILLING FLUIDS (TYPE): NA

LOGGED BY: S. Cravens DATE STARTED: 07/12/05 DATE FINISHED: 07/12/05

REPORT FORM COMPLETED BY: S. Cravens DATE : 07/26/05

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Bentonite

INSTALLATION METHOD: Poured

SETTING TIME: + 24 hours

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured and hydrated

SETTING TIME: ~ 15 minutes

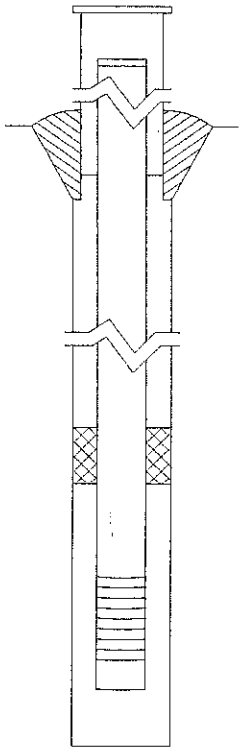
TYPE OF SAND PACK: Quartz

GRAIN SIZE: 40-60 U.S. Standard Series Sieve

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Quartz sand (IF APPLICABLE)

INSTALLATION METHOD: Poured



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
-------	-2.94	TOP OF PROTECTIVE CASING
681.79	-2.56	TOP OF RISER PIPE
679.20	0	GROUND SURFACE
677.39	1.81	TOP OF ANNULAR SEALANT
676.9	2.35	STATIC WATER LEVEL (AFTER COMPLETION)
677.39	1.81	TOP OF SEAL
675.39	3.81	TOP OF SANDPACK
674.39	4.81	TOP OF SCREEN
659.94	19.26	BOTTOM OF SCREEN
659.20	20.00	BOTTOM OF WELL
659.20	20.0	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.25
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	5
RISER PIPE LENGTH (ft)	7.72
BOTTOM OF SCREEN TO END CAP (ft)	0.39
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.45
TOTAL LENGTH OF CASING (ft)	22.56
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 0418080002 / ILD 005 078 126 COUNTY: Douglas WELL #: MW-20

SITE NAME: Equistar Chemicals, LP / Tuscola, Illinois BOREHOLE #: MW-20

STATE PLANE COORDINATE: X 979118 Y 1138977 (or) LATITUDE: LONGITUDE:

SURVEYED BY: HDC Engineering / Randy Evans ILL REGISTRATION #: 2442

DRILLING CONTRACTOR: Transhield Underground Services, Inc. DRILLER: Victor Perez

CONSULTING FIRM: Kelron Environmental GEOLOGIST: S. Cravens

DRILLING METHOD: Hollow stem auger DRILLING FLUIDS (TYPE): NA

LOGGED BY: S. Cravens DATE STARTED: 07/12/05 DATE FINISHED: 07/12/05

REPORT FORM COMPLETED BY: S. Cravens DATE : 07/26/05

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Bentonite

INSTALLATION METHOD: Poured

SETTING TIME: + 24 hours

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured and hydrated

SETTING TIME: ~ 15 minutes

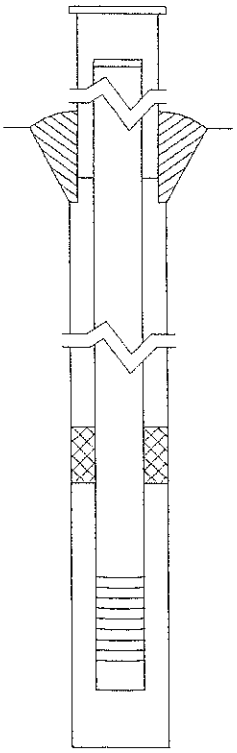
TYPE OF SAND PACK: Quartz

GRAIN SIZE: 40-60 U.S. Standard Series Sieve

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Quartz sand (IF APPLICABLE)

INSTALLATION METHOD: Poured



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
-------	-2.92	TOP OF PROTECTIVE CASING
684.03	-2.36	TOP OF RISER PIPE
681.70	0	GROUND SURFACE
679.53	2.17	TOP OF ANNULAR SEALANT
677.3	4.44	STATIC WATER LEVEL (AFTER COMPLETION)
679.53	2.17	TOP OF SEAL
677.53	4.17	TOP OF SANDPACK
676.53	5.17	TOP OF SCREEN
662.08	19.62	BOTTOM OF SCREEN
661.34	20.36	BOTTOM OF WELL
661.30	20.4	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.25
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	5
RISER PIPE LENGTH (ft)	7.88
BOTTOM OF SCREEN TO END CAP (ft)	0.39
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.45
TOTAL LENGTH OF CASING (ft)	22.72
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 0418080002 / ILD 005 078 126 COUNTY: Douglas WELL #: MW-21

SITE NAME: Equistar Chemicals, LP / Tuscola, Illinois BOREHOLE #: MW-21

STATE PLANE COORDINATE: X 978779 Y 1139296 (or) LATITUDE: LONGITUDE:

SURVEYED BY: HDC Engineering / Randy Evans ILL REGISTRATION #: 2442

DRILLING CONTRACTOR: Transhield Underground Services, Inc. DRILLER: Victor Perez

CONSULTING FIRM: Kelron Environmental GEOLOGIST: S. Cravens

DRILLING METHOD: Hollow stem auger DRILLING FLUIDS (TYPE): NA

LOGGED BY: S. Cravens DATE STARTED: 07/12/05 DATE FINISHED: 07/12/05

REPORT FORM COMPLETED BY: S. Cravens DATE : 07/18/05

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Bentonite

INSTALLATION METHOD: Poured

SETTING TIME: + 24 hours

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured and hydrated

SETTING TIME: ~ 15 minutes

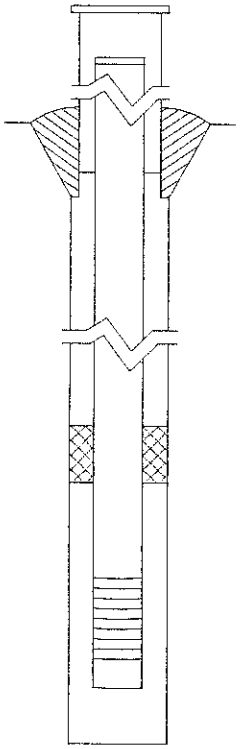
TYPE OF SAND PACK: Quartz

GRAIN SIZE: 40-60 U.S. Standard Series Sieve

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Quartz sand (IF APPLICABLE)

INSTALLATION METHOD: Poured



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
-------	-2.55	TOP OF PROTECTIVE CASING
679.23	-2.34	TOP OF RISER PIPE
676.90	0	GROUND SURFACE
674.93	1.97	TOP OF ANNULAR SEALANT
672.1	4.77	STATIC WATER LEVEL (AFTER COMPLETION)
674.93	1.97	TOP OF SEAL
672.93	3.97	TOP OF SANDPACK
671.93	4.97	TOP OF SCREEN
662.38	14.52	BOTTOM OF SCREEN
661.64	15.26	BOTTOM OF WELL
661.60	15.30	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.25
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	5
RISER PIPE LENGTH (ft)	7.66
BOTTOM OF SCREEN TO END CAP (ft)	0.39
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.55
TOTAL LENGTH OF CASING (ft)	17.60
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 0418080002 / ILD 005 078 126 COUNTY: Douglas WELL #: MW-22

SITE NAME: Equistar Chemicals, LP / Tuscola, Illinois BOREHOLE #: MW-22

STATE PLANE COORDINATE: X 980793 Y 1139409 (or) LATITUDE: LONGITUDE:

SURVEYED BY: HDC Engineering / Randy Evans ILL REGISTRATION #: 2442

DRILLING CONTRACTOR: Transhield Underground Services, Inc. DRILLER: Victor Perez

CONSULTING FIRM: Kelron Environmental GEOLOGIST: S. Cravens

DRILLING METHOD: Hollow stem auger DRILLING FLUIDS (TYPE): NA

LOGGED BY: S. Cravens DATE STARTED: 07/13/05 DATE FINISHED: 07/13/05

REPORT FORM COMPLETED BY: S. Cravens DATE : 07/26/05

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Bentonite

INSTALLATION METHOD: Poured

SETTING TIME: + 24 hours

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured and hydrated

SETTING TIME: ~ 15 minutes

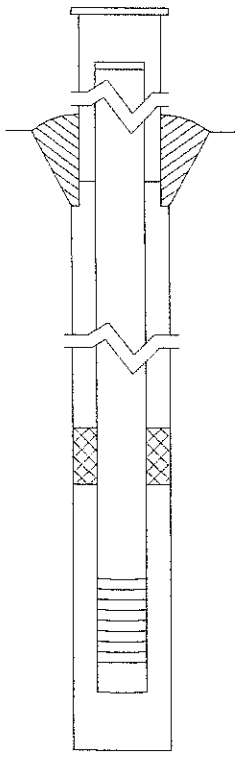
TYPE OF SAND PACK: Quartz

GRAIN SIZE: 40-60 U.S. Standard Series Sieve

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Quartz sand (IF APPLICABLE)

INSTALLATION METHOD: Poured



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
-----	-2.60	TOP OF PROTECTIVE CASING
694.24	-2.22	TOP OF RISER PIPE
692.00	0	GROUND SURFACE
690.89	1.11	TOP OF ANNULAR SEALANT
688.4	3.59	STATIC WATER LEVEL (AFTER COMPLETION)
690.89	1.11	TOP OF SEAL
688.89	3.11	TOP OF SANDPACK
687.89	4.11	TOP OF SCREEN
678.34	13.66	BOTTOM OF SCREEN
677.60	14.40	BOTTOM OF WELL
677.60	14.40	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.25
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	5
RISER PIPE LENGTH (ft)	6.68
BOTTOM OF SCREEN TO END CAP (ft)	0.39
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.55
TOTAL LENGTH OF CASING (ft)	16.62
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 0418080002 / ILD 005 078 126 COUNTY: Douglas WELL #: MW-23

SITE NAME: Equistar Chemicals, LP / Tuscola, Illinois BOREHOLE #: MW-23

STATE PLANE COORDINATE: X 980872 Y 1139402 (or) LATITUDE: LONGITUDE:

SURVEYED BY: HDC Engineering / Randy Evans ILL REGISTRATION #: 2442

DRILLING CONTRACTOR: Transhield Underground Services, Inc. DRILLER: Victor Perez

CONSULTING FIRM: Kelron Environmental GEOLOGIST: S. Cravens

DRILLING METHOD: Hollow stem auger DRILLING FLUIDS (TYPE): NA

LOGGED BY: S. Cravens DATE STARTED: 07/13/05 DATE FINISHED: 07/13/05

REPORT FORM COMPLETED BY: S. Cravens DATE : 07/26/05

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Bentonite

INSTALLATION METHOD: Poured

SETTING TIME: + 24 hours

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured and hydrated

SETTING TIME: ~ 15 minutes

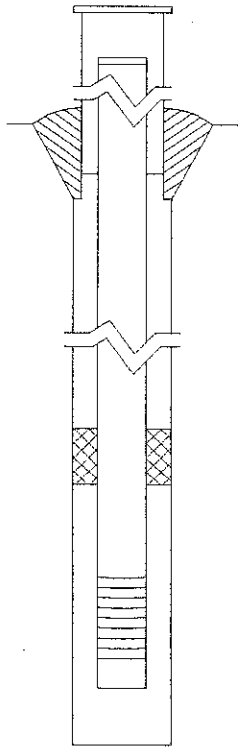
TYPE OF SAND PACK: Quartz

GRAIN SIZE: 40-60 U.S. Standard Series Sieve

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Quartz sand (IF APPLICABLE)

INSTALLATION METHOD: Poured



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
-------	-2.58	TOP OF PROTECTIVE CASING
694.74	-2.20	TOP OF RISER PIPE
692.50	0	GROUND SURFACE
691.35	1.15	TOP OF ANNULAR SEALANT
688.7	3.78	STATIC WATER LEVEL (AFTER COMPLETION)
691.35	1.15	TOP OF SEAL
689.35	3.15	TOP OF SANDPACK
688.35	4.15	TOP OF SCREEN
678.80	13.70	BOTTOM OF SCREEN
678.06	14.44	BOTTOM OF WELL
678.00	14.5	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.25
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	5
RISER PIPE LENGTH (ft)	6.70
BOTTOM OF SCREEN TO END CAP (ft)	0.39
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.55
TOTAL LENGTH OF CASING (ft)	16.64
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 0418080002 / ILD 005 078 126 COUNTY: Douglas WELL #: MW-24

SITE NAME: Equistar Chemicals, LP / Tuscola, Illinois BOREHOLE #: MW-24

STATE PLANE COORDINATE: X 980607 Y 1140010 (or) LATITUDE: LONGITUDE:

SURVEYED BY: HDC Engineering / Randy Evans ILL REGISTRATION #: 2442

DRILLING CONTRACTOR: Transhield Underground Services, Inc. DRILLER: Victor Perez

CONSULTING FIRM: Kelron Environmental GEOLOGIST: S. Cravens

DRILLING METHOD: Hollow stem auger DRILLING FLUIDS (TYPE): NA

LOGGED BY: S. Cravens DATE STARTED: 07/13/05 DATE FINISHED: 07/13/05

REPORT FORM COMPLETED BY: S. Cravens DATE : 07/26/05

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Bentonite

INSTALLATION METHOD: Poured

SETTING TIME: + 24 hours

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured and hydrated

SETTING TIME: ~ 15 minutes

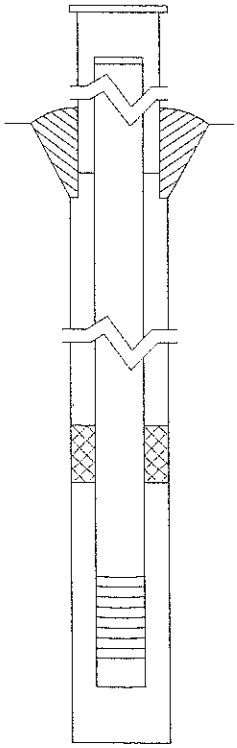
TYPE OF SAND PACK: Quartz

GRAIN SIZE: 40-60 U.S. Standard Series Sieve

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Quartz sand (IF APPLICABLE)

INSTALLATION METHOD: Poured



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
-------	-0.04	TOP OF PROTECTIVE CASING
688.41	0.57	TOP OF RISER PIPE
689.00	0	GROUND SURFACE
686.76	2.24	TOP OF ANNULAR SEALANT
685.6	3.45	STATIC WATER LEVEL (AFTER COMPLETION)
686.76	2.24	TOP OF SEAL
684.76	4.24	TOP OF SANDPACK
683.76	5.24	TOP OF SCREEN
674.21	14.79	BOTTOM OF SCREEN
673.47	15.53	BOTTOM OF WELL
673.45	15.6	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.25
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	5
RISER PIPE LENGTH (ft)	5.02
BOTTOM OF SCREEN TO END CAP (ft)	0.39
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.55
TOTAL LENGTH OF CASING (ft)	14.96
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 0418080002 / ILD 005 078 126 COUNTY: Douglas WELL #: MW-25

SITE NAME: Equistar Chemicals, LP / Tuscola, Illinois BOREHOLE #: MW-25

STATE PLANE COORDINATE: X 980586 Y 1139934 (or) LATITUDE: LONGITUDE:

SURVEYED BY: HDC Engineering / Randy Evans ILL REGISTRATION #: 2442

DRILLING CONTRACTOR: Transhield Underground Services, Inc. DRILLER: Victor Perez

CONSULTING FIRM: Kelron Environmental GEOLOGIST: S. Cravens

DRILLING METHOD: Hollow stem auger DRILLING FLUIDS (TYPE): NA

LOGGED BY: S. Cravens DATE STARTED: 07/13/05 DATE FINISHED: 07/13/05

REPORT FORM COMPLETED BY: S. Cravens DATE : 07/26/05

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Bentonite

INSTALLATION METHOD: Poured

SETTING TIME: + 24 hours

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured and hydrated

SETTING TIME: ~ 15 minutes

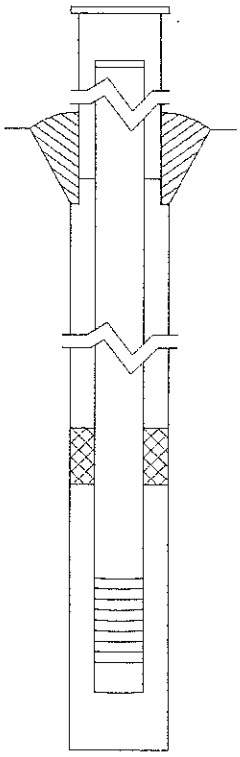
TYPE OF SAND PACK: Quartz

GRAIN SIZE: 40-60 U.S. Standard Series Sieve

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Quartz sand (IF APPLICABLE)

INSTALLATION METHOD: Poured



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
-------	-2.73	TOP OF PROTECTIVE CASING
690.22	-2.38	TOP OF RISER PIPE
687.80	0	GROUND SURFACE
686.87	0.93	TOP OF ANNULAR SEALANT
685.5	2.31	STATIC WATER LEVEL (AFTER COMPLETION)
686.87	0.93	TOP OF SEAL
684.87	2.93	TOP OF SANDPACK
683.87	3.93	TOP OF SCREEN
674.32	13.48	BOTTOM OF SCREEN
673.58	14.22	BOTTOM OF WELL
673.55	14.3	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.25
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	5
RISER PIPE LENGTH (ft)	6.66
BOTTOM OF SCREEN TO END CAP (ft)	0.39
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.55
TOTAL LENGTH OF CASING (ft)	16.60
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 0418080002 / ILD 005 078 126 COUNTY: Douglas WELL #: MW-26

SITE NAME: Equistar Chemicals, LP / Tuscola, Illinois BOREHOLE #: MW-26

STATE PLANE COORDINATE: X 980627 Y 1138922 (or) LATITUDE: LONGITUDE:

SURVEYED BY: HDC Engineering / Randy Evans ILL REGISTRATION #: 2442

DRILLING CONTRACTOR: Transhield Underground Services, Inc. DRILLER: Victor Perez

CONSULTING FIRM: Keiron Environmental GEOLOGIST: S. Cravens

DRILLING METHOD: Hollow stem auger DRILLING FLUIDS (TYPE): NA

LOGGED BY: S. Cravens DATE STARTED: 07/14/05 DATE FINISHED: 07/14/05

REPORT FORM COMPLETED BY: S. Cravens DATE : 07/26/05

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Bentonite

INSTALLATION METHOD: Poured

SETTING TIME: + 24 hours

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured and hydrated

SETTING TIME: ~ 15 minutes

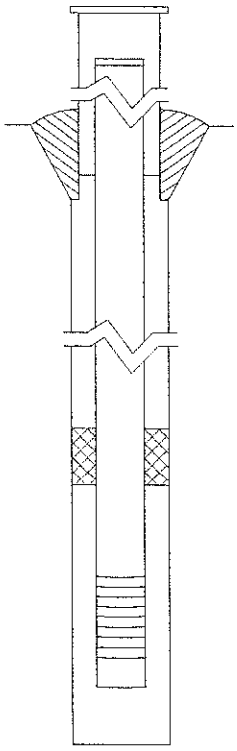
TYPE OF SAND PACK: Quartz

GRAIN SIZE: 40-60 U.S. Standard Series Sieve

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Quartz sand (IF APPLICABLE)

INSTALLATION METHOD: Poured



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
-------	-3.23	TOP OF PROTECTIVE CASING
695.00	-2.84	TOP OF RISER PIPE
692.20	0	GROUND SURFACE
690.62	1.58	TOP OF ANNULAR SEALANT
689.8	2.41	STATIC WATER LEVEL (AFTER COMPLETION)
690.62	1.58	TOP OF SEAL
688.62	3.58	TOP OF SANDPACK
687.62	4.58	TOP OF SCREEN
673.17	19.03	BOTTOM OF SCREEN
672.43	19.77	BOTTOM OF WELL
672.40	19.8	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.25
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	5
RISER PIPE LENGTH (ft)	7.77
BOTTOM OF SCREEN TO END CAP (ft)	0.39
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.45
TOTAL LENGTH OF CASING (ft)	22.61
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 0418080002 / ILD 005 078 126 COUNTY: Douglas WELL #: MW-27

SITE NAME: Equistar Chemicals, LP / Tuscola, Illinois BOREHOLE #: MW-27

STATE PLANE COORDINATE: X 980614 Y 1139057 (or) LATITUDE: LONGITUDE:

SURVEYED BY: HDC Engineering / Randy Evans ILL REGISTRATION #: 2442

DRILLING CONTRACTOR: Transhield Underground Services, Inc. DRILLER: Victor Perez

CONSULTING FIRM: Kelron Environmental GEOLOGIST: S. Cravens

DRILLING METHOD: Hollow stem auger DRILLING FLUIDS (TYPE): NA

LOGGED BY: S. Cravens DATE STARTED: 07/14/05 DATE FINISHED: 07/14/05

REPORT FORM COMPLETED BY: S. Cravens DATE : 07/26/05

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Bentonite

INSTALLATION METHOD: Poured

SETTING TIME: + 24 hours

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured and hydrated

SETTING TIME: ~ 15 minutes

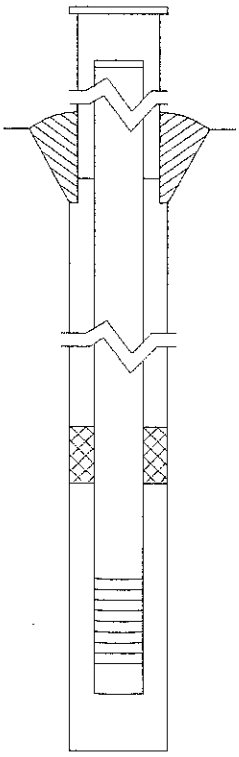
TYPE OF SAND PACK: Quartz

GRAIN SIZE: 40-60 U.S. Standard Series Sieve

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Quartz sand (IF APPLICABLE)

INSTALLATION METHOD: Poured



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
-------	-2.56	TOP OF PROTECTIVE CASING
694.17	-2.20	TOP OF RISER PIPE
692.00	0	GROUND SURFACE
689.63	2.37	TOP OF ANNULAR SEALANT
689.4	2.59	STATIC WATER LEVEL (AFTER COMPLETION)
689.63	2.37	TOP OF SEAL
687.63	4.37	TOP OF SANDPACK
686.63	5.37	TOP OF SCREEN
672.18	19.82	BOTTOM OF SCREEN
671.44	20.56	BOTTOM OF WELL
671.40	20.6	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.25
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	5
RISER PIPE LENGTH (ft)	7.92
BOTTOM OF SCREEN TO END CAP (ft)	0.39
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.45
TOTAL LENGTH OF CASING (ft)	22.76
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 0418080002 / ILD 005 078 126 COUNTY: Douglas WELL #: MW-28

SITE NAME: Equistar Chemicals, LP / Tuscola, Illinois BOREHOLE #: MW-28

STATE PLANE COORDINATE: X 980002 Y 1138952 (or) LATITUDE: LONGITUDE:

SURVEYED BY: HDC Engineering / Randy Evans ILL REGISTRATION #: 2442

DRILLING CONTRACTOR: Transhield Underground Services, Inc. DRILLER: Victor Perez

CONSULTING FIRM: Kelron Environmental GEOLOGIST: S. Cravens

DRILLING METHOD: Hollow stem auger DRILLING FLUIDS (TYPE): NA

LOGGED BY: S. Cravens DATE STARTED: 07/14/05 DATE FINISHED: 07/14/05

REPORT FORM COMPLETED BY: S. Cravens DATE : 07/26/05

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Bentonite

INSTALLATION METHOD: Poured

SETTING TIME: + 24 hours

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured and hydrated

SETTING TIME: ~ 15 minutes

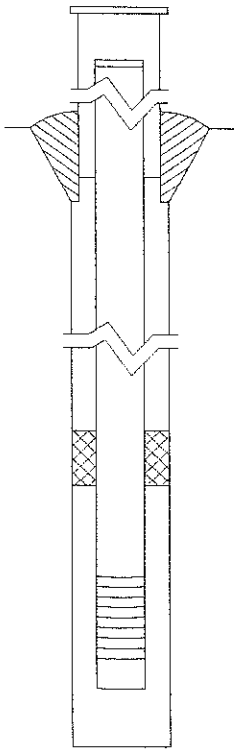
TYPE OF SAND PACK: Quartz

GRAIN SIZE: 40-60 U.S. Standard Series Sieve

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Quartz sand (IF APPLICABLE)

INSTALLATION METHOD: Poured



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
------	-2.62	TOP OF PROTECTIVE CASING
690.21	-2.26	TOP OF RISER PIPE
688.00	0	GROUND SURFACE
686.17	1.83	TOP OF ANNULAR SEALANT
687.0	1.00	STATIC WATER LEVEL (AFTER COMPLETION)
686.17	1.83	TOP OF SEAL
684.17	3.83	TOP OF SANDPACK
683.17	4.83	TOP OF SCREEN
668.72	19.28	BOTTOM OF SCREEN
667.98	20.02	BOTTOM OF WELL
667.90	20.1	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.25
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	5
RISER PIPE LENGTH (ft)	7.78
BOTTOM OF SCREEN TO END CAP (ft)	0.39
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.45
TOTAL LENGTH OF CASING (ft)	22.62
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 0418080002 / ILD 005 078 126 COUNTY: Douglas WELL #: MW-29

SITE NAME: Equistar Chemicals, LP / Tuscola, Illinois BOREHOLE #: MW-29

STATE PLANE COORDINATE: X 980000 Y 1139217 (or) LATITUDE: LONGITUDE:

SURVEYED BY: HDC Engineering / Randy Evans ILL REGISTRATION #: 2442

DRILLING CONTRACTOR: Transhield Underground Services, Inc. DRILLER: Victor Perez

CONSULTING FIRM: Kelron Environmental GEOLOGIST: S. Cravens

DRILLING METHOD: Hollow stem auger DRILLING FLUIDS (TYPE): NA

LOGGED BY: S. Cravens DATE STARTED: 07/14/05 DATE FINISHED: 07/14/05

REPORT FORM COMPLETED BY: S. Cravens DATE : 07/26/05

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Bentonite

INSTALLATION METHOD: Poured

SETTING TIME: + 24 hours

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured and hydrated

SETTING TIME: ~ 15 minutes

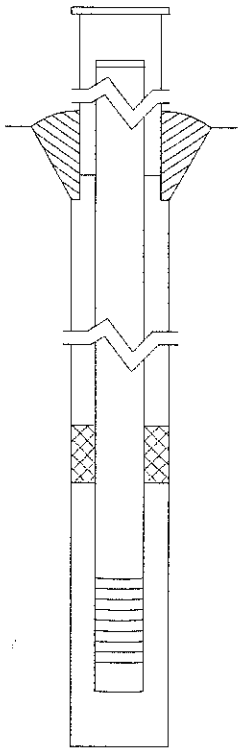
TYPE OF SAND PACK: Quartz

GRAIN SIZE: 40-60 U.S. Standard Series Sieve

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Quartz sand (IF APPLICABLE)

INSTALLATION METHOD: Poured



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
-------	-0.17	TOP OF PROTECTIVE CASING
687.68	0.26	TOP OF RISER PIPE
687.90	0	GROUND SURFACE
685.68	2.22	TOP OF ANNULAR SEALANT
684.7	3.22	STATIC WATER LEVEL (AFTER COMPLETION)
685.68	2.22	TOP OF SEAL
683.68	4.22	TOP OF SANDPACK
682.68	5.22	TOP OF SCREEN
668.23	19.67	BOTTOM OF SCREEN
667.75	20.15	BOTTOM OF WELL
667.70	20.2	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.25
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	5
RISER PIPE LENGTH (ft)	5.57
BOTTOM OF SCREEN TO END CAP (ft)	0.39
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.45
TOTAL LENGTH OF CASING (ft)	20.41
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 0418080002 / ILD 005 078 126 COUNTY: Douglas WELL #: MW-30

SITE NAME: Equistar Chemicals, LP / Tuscola, Illinois BOREHOLE #: MW-30

STATE PLANE COORDINATE: X 982065 Y 1139128 (or) LATITUDE: LONGITUDE:

SURVEYED BY: HDC Engineering / Randy Evans ILL REGISTRATION #: 2442

DRILLING CONTRACTOR: Transhield Underground Services, Inc. DRILLER: Victor Perez

CONSULTING FIRM: Kelron Environmental GEOLOGIST: S. Cravens

DRILLING METHOD: Hollow stem auger DRILLING FLUIDS (TYPE): NA

LOGGED BY: S. Cravens DATE STARTED: 07/15/05 DATE FINISHED: 07/15/05

REPORT FORM COMPLETED BY: S. Cravens DATE : 07/26/05

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Bentonite

INSTALLATION METHOD: Poured

SETTING TIME: + 24 hours

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured and hydrated

SETTING TIME: ~ 15 minutes

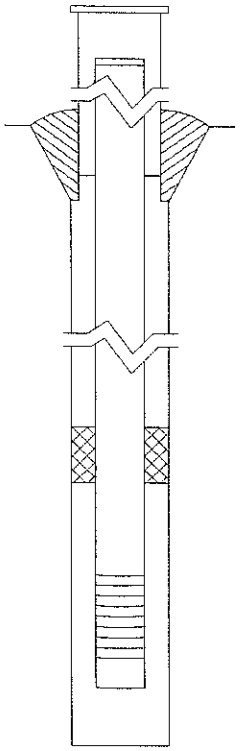
TYPE OF SAND PACK: Quartz

GRAIN SIZE: 40-60 U.S. Standard Series Sieve

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Quartz sand (IF APPLICABLE)

INSTALLATION METHOD: Poured



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
------	-2.93	TOP OF PROTECTIVE CASING
699.39	-2.59	TOP OF RISER PIPE
696.80	0	GROUND SURFACE
694.93	1.87	TOP OF ANNULAR SEALANT
682.8	14.03	STATIC WATER LEVEL (AFTER COMPLETION)
694.93	1.87	TOP OF SEAL
692.93	3.87	TOP OF SANDPACK
691.93	4.87	TOP OF SCREEN
677.48	19.32	BOTTOM OF SCREEN
676.74	20.06	BOTTOM OF WELL
676.70	20.1	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.25
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	5
RISER PIPE LENGTH (ft)	7.77
BOTTOM OF SCREEN TO END CAP (ft)	0.39
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.45
TOTAL LENGTH OF CASING (ft)	22.61
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 0418080002 / ILD 005 078 126 COUNTY: Douglas WELL #: MW-31

SITE NAME: Equistar Chemicals, LP / Tuscola, Illinois BOREHOLE #: MW-31

STATE PLANE COORDINATE: X 981713 Y 1139108 (or) LATITUDE: LONGITUDE:

SURVEYED BY: HDC Engineering / Randy Evans ILL REGISTRATION #: 2442

DRILLING CONTRACTOR: Transhield Underground Services, Inc. DRILLER: Victor Perez

CONSULTING FIRM: Kelron Environmental GEOLOGIST: S. Cravens

DRILLING METHOD: Hollow stem auger DRILLING FLUIDS (TYPE): NA

LOGGED BY: S. Cravens DATE STARTED: 07/15/05 DATE FINISHED: 07/15/05

REPORT FORM COMPLETED BY: S. Cravens DATE : 07/26/05

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Bentonite

INSTALLATION METHOD: Poured

SETTING TIME: + 24 hours

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured and hydrated

SETTING TIME: ~ 15 minutes

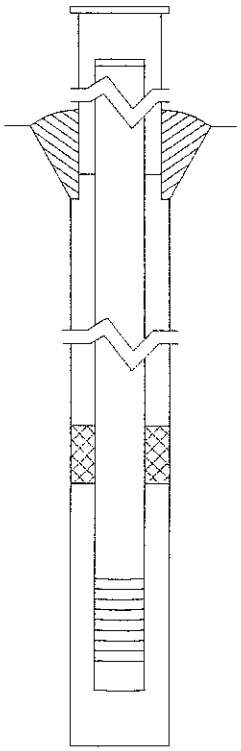
TYPE OF SAND PACK: Quartz

GRAIN SIZE: 40-60 U.S. Standard Series Sieve

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Quartz sand (IF APPLICABLE)

INSTALLATION METHOD: Poured



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
-------	-2.72	TOP OF PROTECTIVE CASING
700.05	-2.35	TOP OF RISER PIPE
697.70	0	GROUND SURFACE
695.77	1.93	TOP OF ANNULAR SEALANT
692.8	4.87	STATIC WATER LEVEL (AFTER COMPLETION)
695.77	1.93	TOP OF SEAL
693.77	3.93	TOP OF SANDPACK
692.77	4.93	TOP OF SCREEN
683.22	14.48	BOTTOM OF SCREEN
682.48	15.22	BOTTOM OF WELL
682.40	15.3	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.25
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	5
RISER PIPE LENGTH (ft)	7.63
BOTTOM OF SCREEN TO END CAP (ft)	0.39
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.55
TOTAL LENGTH OF CASING (ft)	17.57
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 0418080002 / ILD 005 078 126 COUNTY: Douglas WELL #: MW-32

SITE NAME: Equistar Chemicals, LP / Tuscola, Illinois BOREHOLE #: MW-32

STATE PLANE COORDINATE: X 978675 Y 1140451 (or) LATITUDE: LONGITUDE:

SURVEYED BY: HDC Engineering / Randy Evans ILL REGISTRATION #: 2442

DRILLING CONTRACTOR: Transhield Underground Services, Inc. DRILLER: Victor Perez

CONSULTING FIRM: Kelron Environmental GEOLOGIST: S. Cravens

DRILLING METHOD: Hollow stem auger DRILLING FLUIDS (TYPE): NA

LOGGED BY: S. Cravens DATE STARTED: 07/15/05 DATE FINISHED: 07/15/05

REPORT FORM COMPLETED BY: S. Cravens DATE : 07/26/05

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Bentonite

INSTALLATION METHOD: Poured

SETTING TIME: + 24 hours

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured and hydrated

SETTING TIME: ~ 15 minutes

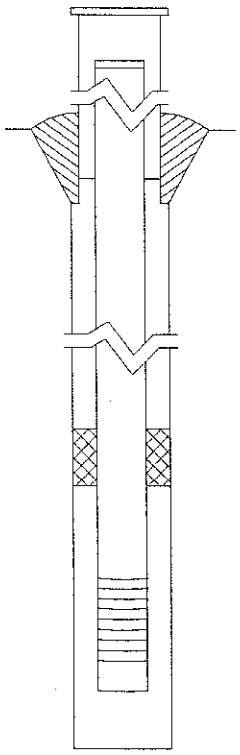
TYPE OF SAND PACK: Quartz

GRAIN SIZE: 40-60 U.S. Standard Series Sieve

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Quartz sand (IF APPLICABLE)

INSTALLATION METHOD: Poured



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
------	-2.54	TOP OF PROTECTIVE CASING
682.79	-2.19	TOP OF RISER PIPE
680.60	0	GROUND SURFACE
679.39	1.21	TOP OF ANNULAR SEALANT
676.7	3.94	STATIC WATER LEVEL (AFTER COMPLETION)
679.39	1.21	TOP OF SEAL
677.39	3.21	TOP OF SANDPACK
676.39	4.21	TOP OF SCREEN
661.94	18.66	BOTTOM OF SCREEN
661.17	19.43	BOTTOM OF WELL
661.10	19.5	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.25
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	5
RISER PIPE LENGTH (ft)	6.76
BOTTOM OF SCREEN TO END CAP (ft)	0.39
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.45
TOTAL LENGTH OF CASING (ft)	21.62
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Appendix B

Appendix B

Soil Laboratory Analytical Data – July 2005 Samples

SEVERN TRENT STL

STL Chicago
2417 Bond Street
University Park, IL 60466

Tel: 708 534 5200 Fax: 708 534 5211
www.stl-inc.com

SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 238377

Prepared For:

Kelron Environmental
1213 Dorchester Drive
Champaign, IL 61821-7031

Project: Equistar Well Installations

Attention: Stuart Cravens

Date: 07/29/2005

Donna Ingersoll for
Signature

Name: Donna L. Ingersoll

Title: Project Manager

E-Mail: dingersoll@stl-inc.com

07/29/05
Date

STL Chicago
2417 Bond Street
University Park, IL 60466

PHONE: (708) 534-5200
FAX..: (708) 534-5211

This Report Contains (40) Pages

Severn Trent Laboratories Chicago
GC Volatile Case Narrative

Kelron Environmental
Equistar CSI
JOB# 238377
Method GRO

1. All required holding times were met for the analysis.

2. The MB (Method Blank) sample did not have any results above the reporting limit.

3. All samples had all surrogate recoveries within the in-house QC limits.

4. The LCS (Laboratory Control Sample) sample had the spike recovery within the in-house QC limits.

5. MS/MSD (Matrix Spike/Matrix Spike Duplicate) analyses were performed on sample -1. The MS/MSD samples had the spike recoveries and the RPD value within the in-house QC limits.

6. All initial and calibration verification standards were within the control limits.

7. The samples were analyzed for GRO (Gasoline Range Organics) based on SW846 methods 5030 and 8015G. A HP 5890 gas chromatograph equipped with a FID (Flame Ionization Detector) and a Tekmar LSC 2000/2016 ALS was used for the analysis of these samples. Samples -1 (40x) and -2 (undiluted) were analyzed by the high-level methanol extraction method.

Gary Rynkar
GC/VOA Section Manager

7/28/15
Date

Severn Trent Laboratories Chicago
GC/MS Case Narrative

Kelron Environmental
Equistar Well Installation
Job Number: 238377
VOA DATA:

1. The sample analyses were performed within the method required 14-day hold time from the date of collection.

2. The Method Blanks had all target compounds below the reporting limit.

3. The LCS (Laboratory Control Samples) had all five controlled spike recoveries within the in-house generated QC limits.

4. Matrix Spike/Matrix Spike Duplicate analyses were not performed on this sample set.

5. All of the volatile samples had surrogate recoveries within the in-house generated QC limits.

6. The soil samples were prepared using the high level Method 5035. All samples were analyzed following SW846 Method 8260B and 8000B. All calibration criteria were met per method or SOP (for minimum R values for certain compounds). The low point in the initial calibration verifies the base reporting limits. The target compounds were quantitated using the initial calibration.

7. All of the volatile samples had internal standard areas and retention times within the SOP acceptance limits as compared to the corresponding calibration verification standard.

8. Due to screening results, the soil samples were all initially analyzed using the high level 5035 soil method. Secondary dilutions were required on samples 7, 9, and 10. The soil results and reporting limits were adjusted to account for the sample weights, dilutions, analytical procedure, and on a dry weight basis.

John Nagel
GC/MS Dept.

7-28-05
Date

STL Chicago is part of Severn Trent Laboratories, Inc.

SAMPLE INFORMATION
Date: 07/29/2005

Job Number.: 238377
Customer...: Kelron Environmental
Attn.....: Stuart Cravens

Project Number.....: 20005633
Customer Project ID....: EQUISTAR CSI
Project Description....: Equistar Well Installations

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
238377-1	MW22-02	Soil	07/13/2005	09:50	07/15/2005	15:00
238377-2	MW24-07	Soil	07/13/2005	14:40	07/15/2005	15:00
238377-3	CL22-03	Soil	07/13/2005	17:20	07/15/2005	15:00
238377-4	CL22-08	Soil	07/13/2005	17:33	07/15/2005	15:00
238377-5	CL21-03	Soil	07/13/2005	17:50	07/15/2005	15:00
238377-6	CL21-903	Soil	07/13/2005	17:55	07/15/2005	15:00
238377-7	CL21-08	Soil	07/13/2005	18:18	07/15/2005	15:00
238377-8	CL20-03	Soil	07/13/2005	18:30	07/15/2005	15:00
238377-9	CL20-08	Soil	07/13/2005	18:45	07/15/2005	15:00
238377-10	CL20-10	Soil	07/13/2005	18:55	07/15/2005	15:00

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 238377

Date: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN: Stuart Cravens

Customer Sample ID: MW22-02
Date Sampled.....: 07/13/2005
Time Sampled.....: 09:50
Sample Matrix.....: Soil

Laboratory Sample ID: 238377-1
Date Received.....: 07/15/2005
Time Received.....: 15:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8015B MGRO	TPH - Gasoline Range Organics (GRO)					
	Gasoline Range Organics (GRO), High/Med Level*	1300000	120000	ug/Kg	07/24/05	wre
Method	% Solids Determination					
	% Solids, Solid	80.6	0.10	%	07/18/05	daj
	% Moisture, Solid	19.4	0.10	%	07/18/05	daj
D2974-87	Organic Matter					
	Organic Matter at 440 C, Solid	2.6	0.1	%	07/18/05	daj

* In Description = Dry Wgt.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 238377

Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Customer Sample ID: MW24-07
Date Sampled.....: 07/13/2005
Time Sampled.....: 14:40
Sample Matrix.....: Soil

Laboratory Sample ID: 238377-2
Date Received.....: 07/15/2005
Time Received.....: 15:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8015B MGRO	TPH - Gasoline Range Organics (GRO)					
	Gasoline Range Organics (GRO), High/Med Level*	4100	3100	ug/Kg	07/24/05	wre
Method	% Solids Determination					
	% Solids, Solid	79.4	0.10	%	07/18/05	daj
	% Moisture, Solid	20.6	0.10	%	07/18/05	daj
D2974-87	Organic Matter					
	Organic Matter at 440 C, Solid	1.0	0.1	%	07/18/05	daj

* . . Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 238377 Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Customer Sample ID: CL22-03
Date Sampled.....: 07/13/2005
Time Sampled.....: 17:20
Sample Matrix.....: Soil

Laboratory Sample ID: 238377-3
Date Received.....: 07/15/2005
Time Received.....: 15:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Vinyl chloride, High/Med Level*	ND	25	ug/Kg	07/26/05	jdn
	Bromomethane, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Chloroethane, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	1,1-Dichloroethene, High/Med Level*	ND	50	ug/Kg	07/26/05	jdn
	Carbon disulfide, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Acetone, High/Med Level*	380	200	ug/Kg	07/26/05	jdn
	Methylene chloride, High/Med Level*	270	100	ug/Kg	07/26/05	jdn
	1,1-Dichloroethane, High/Med Level*	ND	50	ug/Kg	07/26/05	jdn
	2-Butanone (MEK), High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Chloroform, High/Med Level*	ND	50	ug/Kg	07/26/05	jdn
	1,1,1-Trichloroethane, High/Med Level*	ND	50	ug/Kg	07/26/05	jdn
	Carbon tetrachloride, High/Med Level*	ND	50	ug/Kg	07/26/05	jdn
	1,2-Dichloroethene (total), High/Med Level*	ND	50	ug/Kg	07/26/05	jdn
	Benzene, High/Med Level*	1200	25	ug/Kg	07/26/05	jdn
	1,2-Dichloroethane, High/Med Level*	ND	50	ug/Kg	07/26/05	jdn
	Trichloroethene, High/Med Level*	ND	25	ug/Kg	07/26/05	jdn
	1,2-Dichloropropane, High/Med Level*	ND	50	ug/Kg	07/26/05	jdn
	Bromodichloromethane, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	cis-1,3-Dichloropropene, High/Med Level*	ND	50	ug/Kg	07/26/05	jdn
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Toluene, High/Med Level*	220	25	ug/Kg	07/26/05	jdn
	trans-1,3-Dichloropropene, High/Med Level*	ND	50	ug/Kg	07/26/05	jdn
	1,1,2-Trichloroethane, High/Med Level*	ND	50	ug/Kg	07/26/05	jdn
	Tetrachloroethene, High/Med Level*	ND	50	ug/Kg	07/26/05	jdn
	2-Hexanone, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Dibromochloromethane, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Chlorobenzene, High/Med Level*	ND	50	ug/Kg	07/26/05	jdn
	Ethylbenzene, High/Med Level*	ND	25	ug/Kg	07/26/05	jdn
	Styrene, High/Med Level*	ND	50	ug/Kg	07/26/05	jdn
	Bromoform, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	50	ug/Kg	07/26/05	jdn
	Xylenes (total), High/Med Level*	300	50	ug/Kg	07/26/05	jdn
Method	% Solids Determination					
	% Solids, Solid	75.1	0.10	%	07/18/05	daj
	% Moisture, Solid	24.9	0.10	%	07/18/05	daj

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 238377 Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Customer Sample ID: CL22-08
Date Sampled.....: 07/13/2005
Time Sampled.....: 17:33
Sample Matrix.....: Soil

Laboratory Sample ID: 238377-4
Date Received.....: 07/15/2005
Time Received.....: 15:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	92	ug/Kg	07/26/05	jdn
	Vinyl chloride, High/Med Level*	ND	23	ug/Kg	07/26/05	jdn
	Bromomethane, High/Med Level*	ND	92	ug/Kg	07/26/05	jdn
	Chloroethane, High/Med Level*	ND	92	ug/Kg	07/26/05	jdn
	1,1-Dichloroethene, High/Med Level*	ND	46	ug/Kg	07/26/05	jdn
	Carbon disulfide, High/Med Level*	ND	92	ug/Kg	07/26/05	jdn
	Acetone, High/Med Level*	240	180	ug/Kg	07/26/05	jdn
	Methylene chloride, High/Med Level*	260	92	ug/Kg	07/26/05	jdn
	1,1-Dichloroethane, High/Med Level*	ND	46	ug/Kg	07/26/05	jdn
	2-Butanone (MEK), High/Med Level*	ND	92	ug/Kg	07/26/05	jdn
	Chloroform, High/Med Level*	ND	46	ug/Kg	07/26/05	jdn
	1,1,1-Trichloroethane, High/Med Level*	ND	46	ug/Kg	07/26/05	jdn
	Carbon tetrachloride, High/Med Level*	ND	46	ug/Kg	07/26/05	jdn
	1,2-Dichloroethene (total), High/Med Level*	ND	46	ug/Kg	07/26/05	jdn
	Benzene, High/Med Level*	8400	23	ug/Kg	07/26/05	jdn
	1,2-Dichloroethane, High/Med Level*	ND	46	ug/Kg	07/26/05	jdn
	Trichloroethene, High/Med Level*	ND	23	ug/Kg	07/26/05	jdn
	1,2-Dichloropropane, High/Med Level*	ND	46	ug/Kg	07/26/05	jdn
	Bromodichloromethane, High/Med Level*	ND	92	ug/Kg	07/26/05	jdn
	cis-1,3-Dichloropropene, High/Med Level*	ND	46	ug/Kg	07/26/05	jdn
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	92	ug/Kg	07/26/05	jdn
	Toluene, High/Med Level*	1200	23	ug/Kg	07/26/05	jdn
	trans-1,3-Dichloropropene, High/Med Level*	ND	46	ug/Kg	07/26/05	jdn
	1,1,2-Trichloroethane, High/Med Level*	ND	46	ug/Kg	07/26/05	jdn
	Tetrachloroethene, High/Med Level*	ND	46	ug/Kg	07/26/05	jdn
	2-Hexanone, High/Med Level*	ND	92	ug/Kg	07/26/05	jdn
	Dibromochloromethane, High/Med Level*	ND	92	ug/Kg	07/26/05	jdn
	Chlorobenzene, High/Med Level*	ND	46	ug/Kg	07/26/05	jdn
	Ethylbenzene, High/Med Level*	170	23	ug/Kg	07/26/05	jdn
	Styrene, High/Med Level*	230	46	ug/Kg	07/26/05	jdn
	Bromoform, High/Med Level*	ND	92	ug/Kg	07/26/05	jdn
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	46	ug/Kg	07/26/05	jdn
	Xylenes (total), High/Med Level*	ND	46	ug/Kg	07/26/05	jdn
Method	% Solids Determination					
	% Solids, Solid	79.0	0.10	%	07/18/05	daj
	% Moisture, Solid	21.0	0.10	%	07/18/05	daj

* . Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 238377

Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Customer Sample ID: CL21-03
Date Sampled.....: 07/13/2005
Time Sampled.....: 17:50
Sample Matrix.....: Soil

Laboratory Sample ID: 238377-5
Date Received.....: 07/15/2005
Time Received.....: 15:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	120	ug/Kg	07/26/05	jdn
	Vinyl chloride, High/Med Level*	ND	29	ug/Kg	07/26/05	jdn
	Bromomethane, High/Med Level*	ND	120	ug/Kg	07/26/05	jdn
	Chloroethane, High/Med Level*	ND	120	ug/Kg	07/26/05	jdn
	1,1-Dichloroethene, High/Med Level*	ND	58	ug/Kg	07/26/05	jdn
	Carbon disulfide, High/Med Level*	ND	120	ug/Kg	07/26/05	jdn
	Acetone, High/Med Level*	440	230	ug/Kg	07/26/05	jdn
	Methylene chloride, High/Med Level*	350	120	ug/Kg	07/26/05	jdn
	1,1-Dichloroethane, High/Med Level*	ND	58	ug/Kg	07/26/05	jdn
	2-Butanone (MEK), High/Med Level*	ND	120	ug/Kg	07/26/05	jdn
	Chloroform, High/Med Level*	ND	58	ug/Kg	07/26/05	jdn
	1,1,1-Trichloroethane, High/Med Level*	ND	58	ug/Kg	07/26/05	jdn
	Carbon tetrachloride, High/Med Level*	ND	58	ug/Kg	07/26/05	jdn
	1,2-Dichloroethene (total), High/Med Level*	ND	58	ug/Kg	07/26/05	jdn
	Benzene, High/Med Level*	2300	29	ug/Kg	07/26/05	jdn
	1,2-Dichloroethane, High/Med Level*	ND	58	ug/Kg	07/26/05	jdn
	Trichloroethene, High/Med Level*	ND	29	ug/Kg	07/26/05	jdn
	1,2-Dichloropropane, High/Med Level*	ND	58	ug/Kg	07/26/05	jdn
	Bromodichloromethane, High/Med Level*	ND	120	ug/Kg	07/26/05	jdn
	cis-1,3-Dichloropropene, High/Med Level*	ND	58	ug/Kg	07/26/05	jdn
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	120	ug/Kg	07/26/05	jdn
	Toluene, High/Med Level*	170	29	ug/Kg	07/26/05	jdn
	trans-1,3-Dichloropropene, High/Med Level*	ND	58	ug/Kg	07/26/05	jdn
	1,1,2-Trichloroethane, High/Med Level*	ND	58	ug/Kg	07/26/05	jdn
	Tetrachloroethene, High/Med Level*	ND	58	ug/Kg	07/26/05	jdn
	2-Hexanone, High/Med Level*	ND	120	ug/Kg	07/26/05	jdn
	Dibromochloromethane, High/Med Level*	ND	120	ug/Kg	07/26/05	jdn
	Chlorobenzene, High/Med Level*	ND	58	ug/Kg	07/26/05	jdn
	Ethylbenzene, High/Med Level*	ND	29	ug/Kg	07/26/05	jdn
	Styrene, High/Med Level*	ND	58	ug/Kg	07/26/05	jdn
	Bromoform, High/Med Level*	ND	120	ug/Kg	07/26/05	jdn
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	58	ug/Kg	07/26/05	jdn
	Xylenes (total), High/Med Level*	ND	58	ug/Kg	07/26/05	jdn
Method	% Solids Determination					
	% Solids, Solid	76.4	0.10	%	07/18/05	daj
	% Moisture, Solid	23.6	0.10	%	07/18/05	daj

* In Description = Dry Wgt.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 238377

Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Customer Sample ID: CL21-903
Date Sampled.....: 07/13/2005
Time Sampled.....: 17:55
Sample Matrix.....: Soil

Laboratory Sample ID: 238377-6
Date Received.....: 07/15/2005
Time Received.....: 15:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	Vinyl chloride, High/Med Level*	ND	28	ug/Kg	07/26/05	jdn
	Bromomethane, High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	Chloroethane, High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	1,1-Dichloroethene, High/Med Level*	ND	56	ug/Kg	07/26/05	jdn
	Carbon disulfide, High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	Acetone, High/Med Level*	350	220	ug/Kg	07/26/05	jdn
	Methylene chloride, High/Med Level*	330	110	ug/Kg	07/26/05	jdn
	1,1-Dichloroethane, High/Med Level*	ND	56	ug/Kg	07/26/05	jdn
	2-Butanone (MEK), High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	Chloroform, High/Med Level*	ND	56	ug/Kg	07/26/05	jdn
	1,1,1-Trichloroethane, High/Med Level*	ND	56	ug/Kg	07/26/05	jdn
	Carbon tetrachloride, High/Med Level*	ND	56	ug/Kg	07/26/05	jdn
	1,2-Dichloroethene (total), High/Med Level*	ND	56	ug/Kg	07/26/05	jdn
	Benzene, High/Med Level*	2300	28	ug/Kg	07/26/05	jdn
	1,2-Dichloroethane, High/Med Level*	ND	56	ug/Kg	07/26/05	jdn
	Trichloroethene, High/Med Level*	ND	28	ug/Kg	07/26/05	jdn
	1,2-Dichloropropane, High/Med Level*	ND	56	ug/Kg	07/26/05	jdn
	Bromodichloromethane, High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	cis-1,3-Dichloropropene, High/Med Level*	ND	56	ug/Kg	07/26/05	jdn
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	Toluene, High/Med Level*	160	28	ug/Kg	07/26/05	jdn
	trans-1,3-Dichloropropene, High/Med Level*	ND	56	ug/Kg	07/26/05	jdn
	1,1,2-Trichloroethane, High/Med Level*	ND	56	ug/Kg	07/26/05	jdn
	Tetrachloroethene, High/Med Level*	ND	56	ug/Kg	07/26/05	jdn
	2-Hexanone, High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	Dibromochloromethane, High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	Chlorobenzene, High/Med Level*	ND	56	ug/Kg	07/26/05	jdn
	Ethylbenzene, High/Med Level*	ND	28	ug/Kg	07/26/05	jdn
	Styrene, High/Med Level*	ND	56	ug/Kg	07/26/05	jdn
	Bromoform, High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	56	ug/Kg	07/26/05	jdn
	Xylenes (total), High/Med Level*	ND	56	ug/Kg	07/26/05	jdn
Method	% Solids Determination					
	% Solids, Solid	72.6	0.10	%	07/18/05	daj
	% Moisture, Solid	27.4	0.10	%	07/18/05	daj

* ... Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 238377

Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Customer Sample ID: CL21-08
Date Sampled.....: 07/13/2005
Time Sampled.....: 18:18
Sample Matrix.....: Soil

Laboratory Sample ID: 238377-7
Date Received.....: 07/15/2005
Time Received.....: 15:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Vinyl chloride, High/Med Level*	ND	26	ug/Kg	07/26/05	jdn
	Bromomethane, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Chloroethane, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	1,1-Dichloroethene, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	Carbon disulfide, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Acetone, High/Med Level*	270	210	ug/Kg	07/26/05	jdn
	Methylene chloride, High/Med Level*	320	100	ug/Kg	07/26/05	jdn
	1,1-Dichloroethane, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	2-Butanone (MEK), High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Chloroform, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	1,1,1-Trichloroethane, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	Carbon tetrachloride, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	1,2-Dichloroethene (total), High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	Benzene, High/Med Level*	24000	260	ug/Kg	07/26/05	jdn
	1,2-Dichloroethane, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	Trichloroethene, High/Med Level*	ND	26	ug/Kg	07/26/05	jdn
	1,2-Dichloropropane, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	Bromodichloromethane, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	cis-1,3-Dichloropropene, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Toluene, High/Med Level*	2000	26	ug/Kg	07/26/05	jdn
	trans-1,3-Dichloropropene, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	1,1,2-Trichloroethane, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	Tetrachloroethene, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	2-Hexanone, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Dibromochloromethane, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Chlorobenzene, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	Ethylbenzene, High/Med Level*	550	26	ug/Kg	07/26/05	jdn
	Styrene, High/Med Level*	610	51	ug/Kg	07/26/05	jdn
	Bromoform, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	Xylenes (total), High/Med Level*	360	51	ug/Kg	07/26/05	jdn
Method	% Solids Determination					
	% Solids, Solid	77.5	0.10	%	07/18/05	daj
	% Moisture, Solid	22.5	0.10	%	07/18/05	daj

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 238377 Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Customer Sample ID: CL20-03
Date Sampled.....: 07/13/2005
Time Sampled.....: 18:30
Sample Matrix.....: Soil

Laboratory Sample ID: 238377-8
Date Received.....: 07/15/2005
Time Received.....: 15:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	97	ug/Kg	07/26/05	jdn
	Vinyl chloride, High/Med Level*	ND	24	ug/Kg	07/26/05	jdn
	Bromomethane, High/Med Level*	ND	97	ug/Kg	07/26/05	jdn
	Chloroethane, High/Med Level*	ND	97	ug/Kg	07/26/05	jdn
	1,1-Dichloroethene, High/Med Level*	ND	49	ug/Kg	07/26/05	jdn
	Carbon disulfide, High/Med Level*	ND	97	ug/Kg	07/26/05	jdn
	Acetone, High/Med Level*	270	190	ug/Kg	07/26/05	jdn
	Methylene chloride, High/Med Level*	270	97	ug/Kg	07/26/05	jdn
	1,1-Dichloroethane, High/Med Level*	ND	49	ug/Kg	07/26/05	jdn
	2-Butanone (MEK), High/Med Level*	ND	97	ug/Kg	07/26/05	jdn
	Chloroform, High/Med Level*	ND	49	ug/Kg	07/26/05	jdn
	1,1,1-Trichloroethane, High/Med Level*	ND	49	ug/Kg	07/26/05	jdn
	Carbon tetrachloride, High/Med Level*	ND	49	ug/Kg	07/26/05	jdn
	1,2-Dichloroethene (total), High/Med Level*	ND	49	ug/Kg	07/26/05	jdn
	Benzene, High/Med Level*	2500	24	ug/Kg	07/26/05	jdn
	1,2-Dichloroethane, High/Med Level*	ND	49	ug/Kg	07/26/05	jdn
	Trichloroethene, High/Med Level*	ND	24	ug/Kg	07/26/05	jdn
	1,2-Dichloropropane, High/Med Level*	ND	49	ug/Kg	07/26/05	jdn
	Bromodichloromethane, High/Med Level*	ND	97	ug/Kg	07/26/05	jdn
	cis-1,3-Dichloropropene, High/Med Level*	ND	49	ug/Kg	07/26/05	jdn
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	97	ug/Kg	07/26/05	jdn
	Toluene, High/Med Level*	ND	24	ug/Kg	07/26/05	jdn
	trans-1,3-Dichloropropene, High/Med Level*	ND	49	ug/Kg	07/26/05	jdn
	1,1,2-Trichloroethane, High/Med Level*	ND	49	ug/Kg	07/26/05	jdn
	Tetrachloroethene, High/Med Level*	ND	49	ug/Kg	07/26/05	jdn
	2-Hexanone, High/Med Level*	ND	97	ug/Kg	07/26/05	jdn
	Dibromochloromethane, High/Med Level*	ND	97	ug/Kg	07/26/05	jdn
	Chlorobenzene, High/Med Level*	ND	49	ug/Kg	07/26/05	jdn
	Ethylbenzene, High/Med Level*	640	24	ug/Kg	07/26/05	jdn
	Styrene, High/Med Level*	ND	49	ug/Kg	07/26/05	jdn
	Bromoform, High/Med Level*	ND	97	ug/Kg	07/26/05	jdn
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	49	ug/Kg	07/26/05	jdn
	Xylenes (total), High/Med Level*	ND	49	ug/Kg	07/26/05	jdn
Method	% Solids Determination					
	% Solids, Solid	84.5	0.10	%	07/18/05	daj
	% Moisture, Solid	15.5	0.10	%	07/18/05	daj

* Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 238377 Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Customer Sample ID: CL20-08
Date Sampled.....: 07/13/2005
Time Sampled.....: 18:45
Sample Matrix.....: Soil

Laboratory Sample ID: 238377-9
Date Received.....: 07/15/2005
Time Received.....: 15:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Vinyl chloride, High/Med Level*	ND	26	ug/Kg	07/26/05	jdn
	Bromomethane, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Chloroethane, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	1,1-Dichloroethene, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	Carbon disulfide, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Acetone, High/Med Level*	ND	210	ug/Kg	07/26/05	jdn
	Methylene chloride, High/Med Level*	310	100	ug/Kg	07/26/05	jdn
	1,1-Dichloroethane, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	2-Butanone (MEK), High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Chloroform, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	1,1,1-Trichloroethane, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	Carbon tetrachloride, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	1,2-Dichloroethene (total), High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	Benzene, High/Med Level*	19000	260	ug/Kg	07/26/05	jdn
	1,2-Dichloroethane, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	Trichloroethene, High/Med Level*	ND	26	ug/Kg	07/26/05	jdn
	1,2-Dichloropropane, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	Bromodichloromethane, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	cis-1,3-Dichloropropene, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Toluene, High/Med Level*	ND	26	ug/Kg	07/26/05	jdn
	trans-1,3-Dichloropropene, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	1,1,2-Trichloroethane, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	Tetrachloroethene, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	2-Hexanone, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Dibromochloromethane, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	Chlorobenzene, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	Ethylbenzene, High/Med Level*	300	26	ug/Kg	07/26/05	jdn
	Styrene, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	Bromoform, High/Med Level*	ND	100	ug/Kg	07/26/05	jdn
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
	Xylenes (total), High/Med Level*	ND	51	ug/Kg	07/26/05	jdn
Method	% Solids Determination					
	% Solids, Solid	78.3	0.10	%	07/18/05	daj
	% Moisture, Solid	21.7	0.10	%	07/18/05	daj

* In Description = Dry Wgt.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 238377 Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CS1 ATTN: Stuart Cravens

Customer Sample ID: CL20-10
Date Sampled.....: 07/13/2005
Time Sampled.....: 18:55
Sample Matrix.....: Soil

Laboratory Sample ID: 238377-10
Date Received.....: 07/15/2005
Time Received.....: 15:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8270C	Semivolatile Organics					
	Phenol, 3541 Low Solid*	1300	220	ug/Kg	07/22/05	glr
	Bis(2-chloroethyl)ether, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	1,3-Dichlorobenzene, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	1,4-Dichlorobenzene, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	1,2-Dichlorobenzene, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	2-Methylphenol (o-cresol), 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	Hexachloroethane, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	2-Chlorophenol, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	Nitrobenzene, 3541 Low Solid*	ND	44	ug/Kg	07/22/05	glr
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	1,2,4-Trichlorobenzene, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	Isophorone, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	2,4-Dimethylphenol, 3541 Low Solid*	ND	440	ug/Kg	07/22/05	glr
	Hexachlorobutadiene, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	Naphthalene, 3541 Low Solid*	ND	44	ug/Kg	07/22/05	glr
	2,4-Dichlorophenol, 3541 Low Solid*	ND	440	ug/Kg	07/22/05	glr
	4-Chloroaniline, 3541 Low Solid*	ND	900	ug/Kg	07/22/05	glr
	2,4,6-Trichlorophenol, 3541 Low Solid*	ND	440	ug/Kg	07/22/05	glr
	2,4,5-Trichlorophenol, 3541 Low Solid*	ND	440	ug/Kg	07/22/05	glr
	Hexachlorocyclopentadiene, 3541 Low Solid*	ND	900	ug/Kg	07/22/05	glr
	2-Methylnaphthalene, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	2-Nitroaniline, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	2-Chloronaphthalene, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	4-Chloro-3-methylphenol, 3541 Low Solid*	ND	440	ug/Kg	07/22/05	glr
	2,6-Dinitrotoluene, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	2-Nitrophenol, 3541 Low Solid*	ND	440	ug/Kg	07/22/05	glr
	3-Nitroaniline, 3541 Low Solid*	ND	440	ug/Kg	07/22/05	glr
	Dimethyl phthalate, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	2,4-Dinitrophenol, 3541 Low Solid*	ND	900	ug/Kg	07/22/05	glr
	Acenaphthylene, 3541 Low Solid*	ND	44	ug/Kg	07/22/05	glr
	2,4-Dinitrotoluene, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	Acenaphthene, 3541 Low Solid*	ND	44	ug/Kg	07/22/05	glr
	Dibenzofuran, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	4-Nitrophenol, 3541 Low Solid*	ND	900	ug/Kg	07/22/05	glr
	Fluorene, 3541 Low Solid*	ND	44	ug/Kg	07/22/05	glr
	4-Nitroaniline, 3541 Low Solid*	ND	440	ug/Kg	07/22/05	glr
	4-Bromophenyl phenyl ether, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	Hexachlorobenzene, 3541 Low Solid*	ND	90	ug/Kg	07/22/05	glr
	Diethyl phthalate, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	4-Chlorophenyl phenyl ether, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	Pentachlorophenol, 3541 Low Solid*	ND	900	ug/Kg	07/22/05	glr
	n-Nitrosodiphenylamine, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	4,6-Dinitro-2-methylphenol, 3541 Low Solid*	ND	440	ug/Kg	07/22/05	glr
	Phenanthrene, 3541 Low Solid*	ND	44	ug/Kg	07/22/05	glr
	Anthracene, 3541 Low Solid*	ND	44	ug/Kg	07/22/05	glr

* Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 238377

Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Customer Sample ID: CL20-10
Date Sampled.....: 07/13/2005
Time Sampled.....: 18:55
Sample Matrix.....: Soil

Laboratory Sample ID: 238377-10
Date Received.....: 07/15/2005
Time Received.....: 15:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	Carbazole, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	Di-n-butyl phthalate, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	Fluoranthene, 3541 Low Solid*	ND	44	ug/Kg	07/22/05	glr
	Pyrene, 3541 Low Solid*	ND	44	ug/Kg	07/22/05	glr
	Butyl benzyl phthalate, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	Benzo(a)anthracene, 3541 Low Solid*	ND	44	ug/Kg	07/22/05	glr
	Chrysene, 3541 Low Solid*	ND	44	ug/Kg	07/22/05	glr
	3,3-Dichlorobenzidine, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	Di-n-octyl phthalate, 3541 Low Solid*	ND	220	ug/Kg	07/22/05	glr
	Benzo(b)fluoranthene, 3541 Low Solid*	ND	44	ug/Kg	07/22/05	glr
	Benzo(k)fluoranthene, 3541 Low Solid*	ND	44	ug/Kg	07/22/05	glr
	Benzo(a)pyrene, 3541 Low Solid*	ND	44	ug/Kg	07/22/05	glr
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	ND	44	ug/Kg	07/22/05	glr
	Dibenzo(a,h)anthracene, 3541 Low Solid*	ND	44	ug/Kg	07/22/05	glr
	Benzo(ghi)perylene, 3541 Low Solid*	ND	44	ug/Kg	07/22/05	glr
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	Vinyl chloride, High/Med Level*	ND	26	ug/Kg	07/26/05	jdn
	Bromomethane, High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	Chloroethane, High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	1,1-Dichloroethene, High/Med Level*	ND	53	ug/Kg	07/26/05	jdn
	Carbon disulfide, High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	Acetone, High/Med Level*	ND	210	ug/Kg	07/26/05	jdn
	Methylene chloride, High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	1,1-Dichloroethane, High/Med Level*	ND	53	ug/Kg	07/26/05	jdn
	2-Butanone (MEK), High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	Chloroform, High/Med Level*	ND	53	ug/Kg	07/26/05	jdn
	1,1,1-Trichloroethane, High/Med Level*	ND	53	ug/Kg	07/26/05	jdn
	Carbon tetrachloride, High/Med Level*	ND	53	ug/Kg	07/26/05	jdn
	1,2-Dichloroethene (total), High/Med Level*	ND	53	ug/Kg	07/26/05	jdn
	Benzene, High/Med Level*	31000	260	ug/Kg	07/26/05	jdn
	1,2-Dichloroethane, High/Med Level*	ND	53	ug/Kg	07/26/05	jdn
	Trichloroethene, High/Med Level*	ND	26	ug/Kg	07/26/05	jdn
	1,2-Dichloropropane, High/Med Level*	ND	53	ug/Kg	07/26/05	jdn
	Bromodichloromethane, High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	cis-1,3-Dichloropropene, High/Med Level*	ND	53	ug/Kg	07/26/05	jdn
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	Toluene, High/Med Level*	990	26	ug/Kg	07/26/05	jdn
	trans-1,3-Dichloropropene, High/Med Level*	ND	53	ug/Kg	07/26/05	jdn
	1,1,2-Trichloroethane, High/Med Level*	ND	53	ug/Kg	07/26/05	jdn
	Tetrachloroethene, High/Med Level*	ND	53	ug/Kg	07/26/05	jdn
	2-Hexanone, High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	Dibromochloromethane, High/Med Level*	ND	110	ug/Kg	07/26/05	jdn
	Chlorobenzene, High/Med Level*	ND	53	ug/Kg	07/26/05	jdn
	Ethylbenzene, High/Med Level*	600	26	ug/Kg	07/26/05	jdn
	Styrene, High/Med Level*	ND	53	ug/Kg	07/26/05	jdn
	Bromoform, High/Med Level*	ND	110	ug/Kg	07/26/05	jdn

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 238377

Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Customer Sample ID: CL20-10
Date Sampled.....: 07/13/2005
Time Sampled.....: 18:55
Sample Matrix.....: Soil

Laboratory Sample ID: 238377-10
Date Received.....: 07/15/2005
Time Received.....: 15:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	53	ug/Kg	07/26/05	jdn
	Xylenes (total), High/Med Level*	ND	53	ug/Kg	07/26/05	jdn
Method	% Solids Determination					
	% Solids, Solid	74.3	0.10	%	07/18/05	daj
	% Moisture, Solid	25.7	0.10	%	07/18/05	daj

* Description = Dry Wgt.

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LABORATORY CHRONICLE

Job Number: 238377 Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Lab ID: 238377-1 Client ID: MW22-02 Date Recvd: 07/15/2005 Sample Date: 07/13/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154771	154771	07/18/2005	1402	
5030B	5030 GC VOA (High Level Methanol)	1	155741		07/24/2005	1123	
D2974-87	Organic Matter	1	154881	154771	07/18/2005	1402	
8015B MGRO	TPH - Gasoline Range Organics (GRO)	1	155742	155741	07/24/2005	1123	40.00

Lab ID: 238377-2 Client ID: MW24-07 Date Recvd: 07/15/2005 Sample Date: 07/13/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154771	154771	07/18/2005	1404	
5030B	5030 GC VOA (High Level Methanol)	1	155741		07/24/2005	1302	
D2974-87	Organic Matter	1	154881	154771	07/18/2005	1404	
8015B MGRO	TPH - Gasoline Range Organics (GRO)	1	155742	155741	07/24/2005	1302	1.0000

Lab ID: 238377-3 Client ID: CL22-03 Date Recvd: 07/15/2005 Sample Date: 07/13/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154771	154771	07/18/2005	1406	
5030A	5030 Purge & Trap of Methanol Extract	1	155549		07/26/2005	0437	
5035	5035 Preservation High (Methanol)	1	154659		07/13/2005	1720	
5035	5035 Preservation Low	1	154658		07/13/2005	1720	
5035	5035 Preservation Low	2	154658		07/13/2005	1720	
8260B	Volatile Organics	1	155551	154659-155549	07/26/2005	0437	1.0000

Lab ID: 238377-4 Client ID: CL22-08 Date Recvd: 07/15/2005 Sample Date: 07/13/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154771	154771	07/18/2005	1409	
5030A	5030 Purge & Trap of Methanol Extract	1	155549		07/26/2005	0524	
5030A	5030 Purge & Trap of Methanol Extract	2	155549		07/26/2005	0500	
5035	5035 Preservation High (Methanol)	1	154659		07/13/2005	1733	
5035	5035 Preservation Low	1	154658		07/13/2005	1733	
5035	5035 Preservation Low	2	154658		07/13/2005	1733	
8260B	Volatile Organics	1	155551	154659-155549	07/26/2005	0500	1.0000

Lab ID: 238377-5 Client ID: CL21-03 Date Recvd: 07/15/2005 Sample Date: 07/13/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154771	154771	07/18/2005	1411	
5030A	5030 Purge & Trap of Methanol Extract	1	155549		07/26/2005	0548	
5035	5035 Preservation High (Methanol)	1	154659		07/13/2005	1750	
5035	5035 Preservation Low	1	154658		07/13/2005	1750	
5035	5035 Preservation Low	2	154658		07/13/2005	1750	
8260B	Volatile Organics	1	155551	154659-155549	07/26/2005	0548	1.0000

Lab ID: 238377-6 Client ID: CL21-903 Date Recvd: 07/15/2005 Sample Date: 07/13/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154771	154771	07/18/2005	1413	
5030A	5030 Purge & Trap of Methanol Extract	1	155549		07/26/2005	0612	
5035	5035 Preservation High (Methanol)	1	154659		07/13/2005	1755	
5035	5035 Preservation Low	1	154658		07/13/2005	1755	
5035	5035 Preservation Low	2	154658		07/13/2005	1755	
8260B	Volatile Organics	1	155551	154659-155549	07/26/2005	0612	1.0000

Lab ID: 238377-7 Client ID: CL21-08 Date Recvd: 07/15/2005 Sample Date: 07/13/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154771	154771	07/18/2005	1415	
5030A	5030 Purge & Trap of Methanol Extract	1	155549		07/26/2005	0700	
5030A	5030 Purge & Trap of Methanol Extract	2	155549		07/26/2005	0636	
5035	5035 Preservation High (Methanol)	1	154659		07/13/2005	1818	

L A B O R A T O R Y C H R O N I C L E

Job Number: 238377

Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Lab ID: 238377-7 Client ID: CL21-08 Date Recvd: 07/15/2005 Sample Date: 07/13/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5035	5035 Preservation Low	1	154658		07/13/2005	1818	
5035	5035 Preservation Low	2	154658		07/13/2005	1818	
8260B	Volatile Organics	1	155551	154659-155549	07/26/2005	0636	1.0000
8260B	Volatile Organics	1	155551	154659-155549	07/26/2005	0700	10.000

Lab ID: 238377-8 Client ID: CL20-03 Date Recvd: 07/15/2005 Sample Date: 07/13/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154771	154771	07/18/2005	1417	
5030A	5030 Purge & Trap of Methanol Extract	1	155549		07/26/2005	0724	
5035	5035 Preservation High (Methanol)	1	154659		07/13/2005	1830	
5035	5035 Preservation Low	1	154658		07/13/2005	1830	
5035	5035 Preservation Low	2	154658		07/13/2005	1830	
8260B	Volatile Organics	1	155551	154659-155549	07/26/2005	0724	1.0000

Lab ID: 238377-9 Client ID: CL20-08 Date Recvd: 07/15/2005 Sample Date: 07/13/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154771	154771	07/18/2005	1419	
5030A	5030 Purge & Trap of Methanol Extract	1	155549		07/26/2005	0832	
5030A	5030 Purge & Trap of Methanol Extract	2	155549		07/26/2005	0748	
5035	5035 Preservation High (Methanol)	1	154659		07/13/2005	1845	
5035	5035 Preservation Low	1	154658		07/13/2005	1845	
5035	5035 Preservation Low	2	154658		07/13/2005	1845	
8260B	Volatile Organics	1	155551	154659-155549	07/26/2005	0748	1.0000
8260B	Volatile Organics	1	155551	154659-155549	07/26/2005	0832	10.000

Lab ID: 238377-10 Client ID: CL20-10 Date Recvd: 07/15/2005 Sample Date: 07/13/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154771	154771	07/18/2005	1421	
5030A	5030 Purge & Trap of Methanol Extract	1	155575		07/26/2005	1407	
5030A	5030 Purge & Trap of Methanol Extract	2	155575		07/26/2005	1431	
5030A	5030 Purge & Trap of Methanol Extract	3	155549		07/26/2005	0855	
5035	5035 Preservation High (Methanol)	1	154659		07/13/2005	1855	
5035	5035 Preservation Low	1	154658		07/13/2005	1855	
5035	5035 Preservation Low	2	154658		07/13/2005	1855	
3541	Extraction Soxhlet (SVOC)	1	154714		07/18/2005	0730	
8270C	Semivolatile Organics	1	155960	154714	07/22/2005	2047	1.00000
8260B	Volatile Organics	1	155577	154659-155575	07/26/2005	1407	1.0000
8260B	Volatile Organics	1	155577	154659-155575	07/26/2005	1431	10.000

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SURROGATE RECOVERIES REPORT

Job Number.: 238377

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Method.....: TPH - Gasoline Range Organics (GRO)
Method Code...: 8015G

Test Matrix...: High/Med Level
Batch(s).....: 155742

Prep Batch..: 155741

Lab ID	DT	Sample ID	Date	ATFT	BRFLBE
LCS			07/24/2005	108	104
MB			07/24/2005	99	105
238377- 1		MW22-02	07/24/2005	101	106
238377- 1	MS	MW22-02	07/24/2005	114	108
238377- 1	MSD	MW22-02	07/24/2005	112	108
238377- 2		MW24-07	07/24/2005	97	104

Test	Test Description	Limits
ATFT	a,a,a-Trifluorotoluene	70 - 130
BRFLBE	4-Bromofluorobenzene (surr)	63 - 182

STL Chicago is part of Severn Trent Laboratories, Inc.

SURROGATE RECOVERIES REPORT

Job Number.: 238377 Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Method.....: Volatile Organics Test Matrix...: High/Med Level Prep Batch..: 154659
Method Code...: 8260B Batch(s).....: 155551 155577

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
238377- 3		CL22-03	07/26/2005	81	80	83	84
238377- 4		CL22-08	07/26/2005	83	83	85	85
238377- 5		CL21-03	07/26/2005	83	80	84	82
238377- 6		CL21-903	07/26/2005	83	81	84	83
238377- 7		CL21-08	07/26/2005	84	82	86	83
238377- 7	D1	CL21-08	07/26/2005	92	87	93	91
238377- 8		CL20-03	07/26/2005	86	83	86	84
238377- 9		CL20-08	07/26/2005	89	85	90	89
238377- 9	D1	CL20-08	07/26/2005	91	85	92	86
238377- 10		CL20-10	07/26/2005	88	86	92	89
238377- 10	D1	CL20-10	07/26/2005	89	85	94	88

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	43 - 139
BRFLBE	4-Bromofluorobenzene (surr)	57 - 124
DBRFLM	Dibromofluoromethane (surr)	64 - 132
TOLD8	Toluene-d8 (surr)	70 - 128

Method.....: Volatile Organics Test Matrix...: High/Med Level Prep Batch..: 155364
Method Code...: 8260B Batch(s).....: 155577

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
238584--21 EB2			07/26/2005	87	85	92	91

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	43 - 139
BRFLBE	4-Bromofluorobenzene (surr)	57 - 124
DBRFLM	Dibromofluoromethane (surr)	64 - 132
TOLD8	Toluene-d8 (surr)	70 - 128

Method.....: Volatile Organics Test Matrix...: High/Med Level Prep Batch..: 155549
Method Code...: 8260B Batch(s).....: 155551

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCS			07/25/2005	80	88	92	92
MB			07/25/2005	87	86	93	89

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	43 - 139
BRFLBE	4-Bromofluorobenzene (surr)	57 - 124
DBRFLM	Dibromofluoromethane (surr)	64 - 132
TOLD8	Toluene-d8 (surr)	70 - 128

STL Chicago is part of Severn Trent Laboratories, Inc.

SURROGATE RECOVERIES REPORT

Job Number.: 238377

Report Date.: 07/29/2005

CUSTOMER: 483648 PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Method.....: Volatile Organics
Method Code...: 8260B

Test Matrix...: High/Med Level
Batch(s).....: 155577

Prep Batch..: 155575

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCS			07/26/2005	82	86	90	89
MB			07/26/2005	85	83	89	87

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	43 - 139
BRFLBE	4-Bromofluorobenzene (surr)	57 - 124
DBRFLM	Dibromofluoromethane (surr)	64 - 132
TOLD8	Toluene-d8 (surr)	70 - 128

STL Chicago is part of Severn Trent Laboratories, Inc.

SURROGATE RECOVERIES REPORT

Job Number.: 238377

Report Date.: 07/29/2005

CUSTOMER: 483648 PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Method.....: Semivolatile Organics
Method Code...: 8270

Test Matrix...: 3541 Low Solid
Batch(s).....: 155960

Prep Batch..: 154714

Lab ID	DT	Sample ID	Date	246TBP	2FLUBP	2FLUPH	NITRD5	PHEND5	TERD14
LCS			07/22/2005	91	94	87	90	88	95
MB			07/22/2005	84	98	83	94	92	94
238377- 10		CL20-10	07/22/2005	78	63	64	61	67	87

Test	Test Description	Limits
246TBP	2,4,6-Tribromophenol (surr)	18 - 136
2FLUBP	2-Fluorobiphenyl (surr)	44 - 103
2FLUPH	2-Fluorophenol (surr)	21 - 104
NITRD5	Nitrobenzene-d5 (surr)	34 - 100
PHEND5	Phenol-d5 (surr)	27 - 113
TERD14	Terphenyl-d14 (surr)	41 - 116

QUALITY CONTROL RESULTS

Job Number.: 238377

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN: Stuart Cravens

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8015B MGRO
Method Description.: TPH - Gasoline Range Organics (GRO)
Equipment Code....: INST1112
Batch.....: 155742
Analyst...: wre

LCS	Laboratory Control Sample	G05G24DSA	155741-001		07/24/2005	1018

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Gasoline Range Organics (GRO), High/Me	ug/Kg	22322.650		20000.000	2500.000 U	112	%	70-130	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238377

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8015B MGRO
Method Description.: TPH - Gasoline Range Organics (GRO)
Equipment Code....: INST1112
Batch.....: 155742
Analyst...: wre

MB	Method Blank		155741-002		07/24/2005	1050

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Gasoline Range Organics (GRO), High/Me	ug/Kg	2500.000	U						

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238377

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8015B MGRO
Method Description.: TPH - Gasoline Range Organics (GRO)
Equipment Code....: INST1112
Batch.....: 155742
Analyst...: wre

MS	Matrix Spike	G05G24DSA	238377-1	40.00	07/24/2005	1156

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Gasoline Range Organics (GRO), High/Me	ug/Kg	2428647.643		39700000.000	1282245.658	116	%	70-130	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238377

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8015B MGRO
Method Description.: TPH - Gasoline Range Organics (GRO)
Equipment Code....: INST1112
Batch.....: 155742
Analyst...: wre

MSD	Matrix Spike Duplicate	G05G24DSA	238377-1	40.00	07/24/2005	1229

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Gasoline Range Organics (GRO), High/Me	ug/Kg	2395602.978	2428647.643	39700000.000	1282245.658	112	%	70-130	
						4	R	30	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238377

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	O5GWLBLKA	154714-002		07/22/2005	2027

Test Method.....: 8270C
Method Description.: Semivolatile Organics

Equipment Code....: GCL1
Batch.....: 155960

Analyst...: glr

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Phenol, 3541 Low Solid	ug/Kg	1561.824		1667.000	167.000	U 94	%	60-130	
Bis(2-chloroethyl)ether, 3541 Low Soli	ug/Kg	1429.186		1667.000	167.000	U 86	%	50-130	
1,3-Dichlorobenzene, 3541 Low Solid	ug/Kg	1269.731		1667.000	167.000	U 76	%	60-130	
1,4-Dichlorobenzene, 3541 Low Solid	ug/Kg	1310.150		1667.000	167.000	U 79	%	60-130	
1,2-Dichlorobenzene, 3541 Low Solid	ug/Kg	1270.714		1667.000	167.000	U 76	%	60-130	
2-Methylphenol (o-cresol), 3541 Low So	ug/Kg	1494.762		1667.000	167.000	U 90	%	60-130	
2,2-oxybis (1-chloropropane), 3541 Low	ug/Kg	1396.213		1667.000	167.000	U 84	%	30-130	
n-Nitroso-di-n-propylamine, 3541 Low S	ug/Kg	1538.575		1667.000	167.000	U 92	%	50-130	
Hexachloroethane, 3541 Low Solid	ug/Kg	1286.614		1667.000	167.000	U 77	%	40-130	
4-Methylphenol (m/p-cresol), 3541 Low	ug/Kg	1445.612		1667.000	167.000	U 87	%	60-130	
2-Chlorophenol, 3541 Low Solid	ug/Kg	1420.892		1667.000	167.000	U 85	%	50-130	
Nitrobenzene, 3541 Low Solid	ug/Kg	1409.169		1667.000	33.000	U 85	%	50-130	
Bis(2-chloroethoxy)methane, 3541 Low S	ug/Kg	1470.965		1667.000	167.000	U 88	%	50-130	
1,2,4-Trichlorobenzene, 3541 Low Solid	ug/Kg	1384.933		1667.000	167.000	U 83	%	60-130	
Isophorone, 3541 Low Solid	ug/Kg	1371.093		1667.000	167.000	U 82	%	50-130	
2,4-Dimethylphenol, 3541 Low Solid	ug/Kg	1429.152		1667.000	330.000	U 86	%	50-130	
Hexachlorobutadiene, 3541 Low Solid	ug/Kg	1460.602		1667.000	167.000	U 88	%	60-130	
Naphthalene, 3541 Low Solid	ug/Kg	1390.903		1667.000	33.000	U 83	%	55-100	
2,4-Dichlorophenol, 3541 Low Solid	ug/Kg	1516.225		1667.000	330.000	U 91	%	60-130	
4-Chloroaniline, 3541 Low Solid	ug/Kg	1016.237		1667.000	670.000	U 61	%	20-130	
2,4,6-Trichlorophenol, 3541 Low Solid	ug/Kg	1757.396		1667.000	330.000	U 105	%	60-130	
2,4,5-Trichlorophenol, 3541 Low Solid	ug/Kg	1441.162		1667.000	330.000	U 86	%	60-130	
Hexachlorocyclopentadiene, 3541 Low So	ug/Kg	850.155		1667.000	670.000	U 51	%	20-130	
2-Methylnaphthalene, 3541 Low Solid	ug/Kg	1436.249		1667.000	167.000	U 86	%	60-130	
2-Nitroaniline, 3541 Low Solid	ug/Kg	1629.204		1667.000	167.000	U 98	%	50-130	
2-Chloronaphthalene, 3541 Low Solid	ug/Kg	1454.289		1667.000	167.000	U 87	%	60-130	
4-Chloro-3-methylphenol, 3541 Low Soli	ug/Kg	1563.044		1667.000	330.000	U 94	%	60-130	
2,6-Dinitrotoluene, 3541 Low Solid	ug/Kg	1180.515		1667.000	167.000	U 71	%	60-130	
2-Nitrophenol, 3541 Low Solid	ug/Kg	1447.922		1667.000	330.000	U 87	%	60-130	
3-Nitroaniline, 3541 Low Solid	ug/Kg	997.820		1667.000	330.000	U 60	%	30-130	
Dimethyl phthalate, 3541 Low Solid	ug/Kg	1558.864		1667.000	167.000	U 94	%	60-130	
2,4-Dinitrophenol, 3541 Low Solid	ug/Kg	673.467		1667.000	670.000	U 40	%	10-130	
Acenaphthylene, 3541 Low Solid	ug/Kg	1494.082		1667.000	33.000	U 90	%	59-104	
2,4-Dinitrotoluene, 3541 Low Solid	ug/Kg	1614.871		1667.000	167.000	U 97	%	60-130	
Acenaphthene, 3541 Low Solid	ug/Kg	1480.295		1667.000	33.000	U 89	%	64-100	
Dibenzofuran, 3541 Low Solid	ug/Kg	1520.045		1667.000	167.000	U 91	%	60-130	
4-Nitrophenol, 3541 Low Solid	ug/Kg	1091.546		1667.000	670.000	U 65	%	30-130	
Fluorene, 3541 Low Solid	ug/Kg	1557.978		1667.000	33.000	U 93	%	61-105	
4-Nitroaniline, 3541 Low Solid	ug/Kg	1572.754		1667.000	330.000	U 94	%	50-130	
4-Bromophenyl phenyl ether, 3541 Low S	ug/Kg	1623.730		1667.000	167.000	U 97	%	50-130	
Hexachlorobenzene, 3541 Low Solid	ug/Kg	1609.631		1667.000	67.000	U 97	%	60-130	
Diethyl phthalate, 3541 Low Solid	ug/Kg	1308.944		1667.000	167.000	U 79	%	50-130	
4-Chlorophenyl phenyl ether, 3541 Low	ug/Kg	1301.500		1667.000	167.000	U 78	%	60-130	
Pentachlorophenol, 3541 Low Solid	ug/Kg	591.527	J	1667.000	670.000	U 35	%	20-130	
n-Nitrosodiphenylamine, 3541 Low Solid	ug/Kg	1513.932		1667.000	167.000	U 91	%	60-130	
4,6-Dinitro-2-methylphenol, 3541 Low S	ug/Kg	831.752		1667.000	330.000	U 50	%	10-130	
Phenanthrene, 3541 Low Solid	ug/Kg	1497.392		1667.000	33.000	U 90	%	63-113	
Anthracene, 3541 Low Solid	ug/Kg	1359.446		1667.000	33.000	U 82	%	53-108	
Carbazole, 3541 Low Solid	ug/Kg	1686.486		1667.000	167.000	U 101	%	60-130	
Di-n-butyl phthalate, 3541 Low Solid	ug/Kg	1605.327		1667.000	167.000	U 96	%	60-13[illegible]	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238377

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	O5GWLBLKA	154714-002		07/22/2005	2027

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value		QC Calc.	*	Limits	F
Fluoranthene, 3541 Low Solid	ug/Kg	1454.082		1667.000	33.000	U	87	%	56-112	
Pyrene, 3541 Low Solid	ug/Kg	1461.572		1667.000	33.000	U	88	%	62-114	
Butyl benzyl phthalate, 3541 Low Solid	ug/Kg	1359.153		1667.000	167.000	U	82	%	50-130	
Benzo(a)anthracene, 3541 Low Solid	ug/Kg	1587.554		1667.000	33.000	U	95	%	56-130	
Chrysene, 3541 Low Solid	ug/Kg	1537.031		1667.000	33.000	U	92	%	52-113	
3,3-Dichlorobenzidine, 3541 Low Solid	ug/Kg	1172.415		1667.000	167.000	U	70	%	30-130	
Bis(2-ethylhexyl)phthalate, 3541 Low S	ug/Kg	1501.545		1667.000	167.000	U	90	%	50-130	
Di-n-octyl phthalate, 3541 Low Solid	ug/Kg	1476.445		1667.000	167.000	U	89	%	40-130	
Benzo(b)fluoranthene, 3541 Low Solid	ug/Kg	1833.288		1667.000	33.000	U	110	%	37-150	
Benzo(k)fluoranthene, 3541 Low Solid	ug/Kg	1607.787		1667.000	33.000	U	96	%	37-120	
Benzo(a)pyrene, 3541 Low Solid	ug/Kg	1613.867		1667.000	33.000	U	97	%	55-117	
Indeno(1,2,3-cd)pyrene, 3541 Low Solid	ug/Kg	1706.696		1667.000	33.000	U	102	%	57-118	
Dibenzo(a,h)anthracene, 3541 Low Solid	ug/Kg	1698.543		1667.000	33.000	U	102	%	54-121	
Benzo(ghi)perylene, 3541 Low Solid	ug/Kg	1673.353		1667.000	33.000	U	100	%	56-128	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238377

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8270C
Method Description.: Semivolatile Organics

Equipment Code....: GCL1
Batch.....: 155960

Analyst...: glr

MB	Method Blank		154714-001		07/22/2005	1928

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Phenol, 3541 Low Solid	ug/Kg	167.000	U							
Bis(2-chloroethyl)ether, 3541 Low Soli	ug/Kg	167.000	U							
1,3-Dichlorobenzene, 3541 Low Solid	ug/Kg	167.000	U							
1,4-Dichlorobenzene, 3541 Low Solid	ug/Kg	167.000	U							
1,2-Dichlorobenzene, 3541 Low Solid	ug/Kg	167.000	U							
2-Methylphenol (o-cresol), 3541 Low So	ug/Kg	167.000	U							
2,2-oxybis (1-chloropropane), 3541 Low	ug/Kg	167.000	U							
n-Nitroso-di-n-propylamine, 3541 Low S	ug/Kg	167.000	U							
Hexachloroethane, 3541 Low Solid	ug/Kg	167.000	U							
4-Methylphenol (m/p-cresol), 3541 Low	ug/Kg	167.000	U							
2-Chlorophenol, 3541 Low Solid	ug/Kg	167.000	U							
Nitrobenzene, 3541 Low Solid	ug/Kg	33.000	U							
Bis(2-chloroethoxy)methane, 3541 Low S	ug/Kg	167.000	U							
1,2,4-Trichlorobenzene, 3541 Low Solid	ug/Kg	167.000	U							
Isophorone, 3541 Low Solid	ug/Kg	167.000	U							
2,4-Dimethylphenol, 3541 Low Solid	ug/Kg	330.000	U							
Hexachlorobutadiene, 3541 Low Solid	ug/Kg	167.000	U							
Naphthalene, 3541 Low Solid	ug/Kg	33.000	U							
2,4-Dichlorophenol, 3541 Low Solid	ug/Kg	330.000	U							
4-Chloroaniline, 3541 Low Solid	ug/Kg	670.000	U							
2,4,6-Trichlorophenol, 3541 Low Solid	ug/Kg	330.000	U							
2,4,5-Trichlorophenol, 3541 Low Solid	ug/Kg	330.000	U							
Hexachlorocyclopentadiene, 3541 Low So	ug/Kg	670.000	U							
2-Methylnaphthalene, 3541 Low Solid	ug/Kg	167.000	U							
2-Nitroaniline, 3541 Low Solid	ug/Kg	167.000	U							
2-Chloronaphthalene, 3541 Low Solid	ug/Kg	167.000	U							
4-Chloro-3-methylphenol, 3541 Low Soli	ug/Kg	330.000	U							
2,6-Dinitrotoluene, 3541 Low Solid	ug/Kg	167.000	U							
2-Nitrophenol, 3541 Low Solid	ug/Kg	330.000	U							
3-Nitroaniline, 3541 Low Solid	ug/Kg	330.000	U							
Dimethyl phthalate, 3541 Low Solid	ug/Kg	167.000	U							
2,4-Dinitrophenol, 3541 Low Solid	ug/Kg	670.000	U							
Acenaphthylene, 3541 Low Solid	ug/Kg	33.000	U							
2,4-Dinitrotoluene, 3541 Low Solid	ug/Kg	167.000	U							
Acenaphthene, 3541 Low Solid	ug/Kg	33.000	U							
Dibenzofuran, 3541 Low Solid	ug/Kg	167.000	U							
4-Nitrophenol, 3541 Low Solid	ug/Kg	670.000	U							
Fluorene, 3541 Low Solid	ug/Kg	33.000	U							
4-Nitroaniline, 3541 Low Solid	ug/Kg	330.000	U							
4-Bromophenyl phenyl ether, 3541 Low S	ug/Kg	167.000	U							
Hexachlorobenzene, 3541 Low Solid	ug/Kg	67.000	U							
Diethyl phthalate, 3541 Low Solid	ug/Kg	167.000	U							
4-Chlorophenyl phenyl ether, 3541 Low	ug/Kg	167.000	U							
Pentachlorophenol, 3541 Low Solid	ug/Kg	670.000	U							
n-Nitrosodiphenylamine, 3541 Low Solid	ug/Kg	167.000	U							
4,6-Dinitro-2-methylphenol, 3541 Low S	ug/Kg	330.000	U							
Phenanthrene, 3541 Low Solid	ug/Kg	33.000	U							
Anthracene, 3541 Low Solid	ug/Kg	33.000	U							
Carbazole, 3541 Low Solid	ug/Kg	167.000	U							
Di-n-butyl phthalate, 3541 Low Solid	ug/Kg	167.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238377

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		154714-001		07/22/2005	1928

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Fluoranthene, 3541 Low Solid	ug/Kg	33.000	U							
Pyrene, 3541 Low Solid	ug/Kg	33.000	U							
Butyl benzyl phthalate, 3541 Low Solid	ug/Kg	167.000	U							
Benzo(a)anthracene, 3541 Low Solid	ug/Kg	33.000	U							
Chrysene, 3541 Low Solid	ug/Kg	33.000	U							
3,3-Dichlorobenzidine, 3541 Low Solid	ug/Kg	167.000	U							
Bis(2-ethylhexyl)phthalate, 3541 Low S	ug/Kg	167.000	U							
Di-n-octyl phthalate, 3541 Low Solid	ug/Kg	167.000	U							
Benzo(b)fluoranthene, 3541 Low Solid	ug/Kg	33.000	U							
Benzo(k)fluoranthene, 3541 Low Solid	ug/Kg	33.000	U							
Benzo(a)pyrene, 3541 Low Solid	ug/Kg	33.000	U							
Indeno(1,2,3-cd)pyrene, 3541 Low Solid	ug/Kg	33.000	U							
Dibenzo(a,h)anthracene, 3541 Low Solid	ug/Kg	33.000	U							
Benzo(ghi)perylene, 3541 Low Solid	ug/Kg	33.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238377

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL16
Batch.....: 155551

Analyst...: jdn

LCS	Laboratory Control Sample	V05G25DSB	155549-002		07/25/2005	2304

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	1930.000		2500.000	100.000	U 77	%	55-129	
Vinyl chloride, High/Med Level	ug/Kg	1796.020		2500.000	25.000	U 72	%	61-135	
Bromomethane, High/Med Level	ug/Kg	2223.110		2500.000	100.000	U 89	%	36-164	
Chloroethane, High/Med Level	ug/Kg	2770.625		2500.000	100.000	U 111	%	33-207	
1,1-Dichloroethene, High/Med Level	ug/Kg	1194.685		2500.000	50.000	U 48	%	44-143	
Carbon disulfide, High/Med Level	ug/Kg	953.310		2500.000	100.000	U 38	%	21-124	
Acetone, High/Med Level	ug/Kg	1739.930		2500.000	200.000	U 70	%	34-143	
Methylene chloride, High/Med Level	ug/Kg	2060.370		2500.000	100.000	U 82	%	57-129	
1,1-Dichloroethane, High/Med Level	ug/Kg	1937.485		2500.000	50.000	U 77	%	68-119	
2-Butanone (MEK), High/Med Level	ug/Kg	1760.245		2500.000	100.000	U 70	%	40-125	
Chloroform, High/Med Level	ug/Kg	2089.910		2500.000	50.000	U 84	%	61-129	
1,1,1-Trichloroethane, High/Med Level	ug/Kg	1948.355		2500.000	50.000	U 78	%	69-133	
Carbon tetrachloride, High/Med Level	ug/Kg	1902.145		2500.000	50.000	U 76	%	59-127	
1,2-Dichloroethene (total), High/Med L	ug/Kg	3922.945		5000.000	50.000	U 78	%	60-139	
Benzene, High/Med Level	ug/Kg	2104.520		2500.000	25.000	U 84	%	67-122	
1,2-Dichloroethane, High/Med Level	ug/Kg	1854.665		2500.000	50.000	U 74	%	64-115	
Trichloroethene, High/Med Level	ug/Kg	2105.795		2500.000	25.000	U 84	%	70-123	
1,2-Dichloropropane, High/Med Level	ug/Kg	2155.745		2500.000	50.000	U 86	%	70-122	
Bromodichloromethane, High/Med Level	ug/Kg	2220.705		2500.000	100.000	U 89	%	66-128	
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	2152.490		2600.000	50.000	U 83	%	68-123	
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	2159.440		2500.000	100.000	U 86	%	54-119	
Toluene, High/Med Level	ug/Kg	2172.585		2500.000	25.000	U 87	%	72-123	
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	1859.670		2400.000	50.000	U 77	%	60-115	
1,1,2-Trichloroethane, High/Med Level	ug/Kg	2201.845		2500.000	50.000	U 88	%	67-133	
Tetrachloroethene, High/Med Level	ug/Kg	2004.885		2500.000	50.000	U 80	%	75-125	
2-Hexanone, High/Med Level	ug/Kg	1996.545		2500.000	100.000	U 80	%	50-116	
Dibromochloromethane, High/Med Level	ug/Kg	2113.870		2500.000	100.000	U 85	%	70-119	
Chlorobenzene, High/Med Level	ug/Kg	2098.660		2500.000	50.000	U 84	%	80-125	
Ethylbenzene, High/Med Level	ug/Kg	2204.260		2500.000	25.000	U 88	%	78-128	
Styrene, High/Med Level	ug/Kg	2247.950		2500.000	50.000	U 90	%	80-129	
Bromoform, High/Med Level	ug/Kg	1921.330		2500.000	100.000	U 77	%	70-123	
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	2042.025		2500.000	50.000	U 82	%	70-126	
Xylenes (total), High/Med Level	ug/Kg	6454.900		7500.000	50.000	U 86	%	77-131	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238377

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL16
Batch.....: 155551

Analyst...: jdn

MB	Method Blank		155549-001		07/25/2005	2240

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	100.000	U							
Vinyl chloride, High/Med Level	ug/Kg	25.000	U							
Bromomethane, High/Med Level	ug/Kg	100.000	U							
Chloroethane, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethene, High/Med Level	ug/Kg	50.000	U							
Carbon disulfide, High/Med Level	ug/Kg	100.000	U							
Acetone, High/Med Level	ug/Kg	200.000	U							
Methylene chloride, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethane, High/Med Level	ug/Kg	50.000	U							
2-Butanone (MEK), High/Med Level	ug/Kg	100.000	U							
Chloroform, High/Med Level	ug/Kg	50.000	U							
1,1,1-Trichloroethane, High/Med Level	ug/Kg	50.000	U							
Carbon tetrachloride, High/Med Level	ug/Kg	50.000	U							
1,2-Dichloroethene (total), High/Med L	ug/Kg	50.000	U							
Benzene, High/Med Level	ug/Kg	25.000	U							
1,2-Dichloroethane, High/Med Level	ug/Kg	50.000	U							
Trichloroethene, High/Med Level	ug/Kg	25.000	U							
1,2-Dichloropropane, High/Med Level	ug/Kg	50.000	U							
Bromodichloromethane, High/Med Level	ug/Kg	100.000	U							
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	50.000	U							
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	100.000	U							
Toluene, High/Med Level	ug/Kg	25.000	U							
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	50.000	U							
1,1,2-Trichloroethane, High/Med Level	ug/Kg	50.000	U							
Tetrachloroethene, High/Med Level	ug/Kg	50.000	U							
2-Hexanone, High/Med Level	ug/Kg	100.000	U							
Dibromochloromethane, High/Med Level	ug/Kg	100.000	U							
Chlorobenzene, High/Med Level	ug/Kg	50.000	U							
Ethylbenzene, High/Med Level	ug/Kg	25.000	U							
Styrene, High/Med Level	ug/Kg	50.000	U							
Bromoform, High/Med Level	ug/Kg	100.000	U							
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	50.000	U							
Xylenes (total), High/Med Level	ug/Kg	50.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238377

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL16
Batch.....: 155577

Analyst...: jdn

EB2	Extraction Blank 2	8584	155364-011		07/26/2005	1144

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
1,2-Dichloroethene (total), High/Med L	ug/Kg	50.000	U						
Benzene, High/Med Level	ug/Kg	25.000	U						
Trichloroethene, High/Med Level	ug/Kg	25.000	U						
Toluene, High/Med Level	ug/Kg	25.000	U						
Tetrachloroethene, High/Med Level	ug/Kg	50.000	U						
Ethylbenzene, High/Med Level	ug/Kg	25.000	U						
Styrene, High/Med Level	ug/Kg	50.000	U						
Xylenes (total), High/Med Level	ug/Kg	50.000	U						

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238377

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL16
Batch.....: 155577

Analyst...: jdn

LCS	Laboratory Control Sample	V05G26DSB	155575-002		07/26/2005	1056

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	2057.035		2500.000	100.000	U 82	%	55-129	
Vinyl chloride, High/Med Level	ug/Kg	2037.870		2500.000	25.000	U 82	%	61-135	
Bromomethane, High/Med Level	ug/Kg	2459.760		2500.000	100.000	U 98	%	36-164	
Chloroethane, High/Med Level	ug/Kg	2981.370		2500.000	100.000	U 119	%	33-207	
1,1-Dichloroethene, High/Med Level	ug/Kg	1314.660		2500.000	50.000	U 53	%	44-143	
Carbon disulfide, High/Med Level	ug/Kg	969.510		2500.000	100.000	U 39	%	21-124	
Acetone, High/Med Level	ug/Kg	1783.315		2500.000	200.000	U 71	%	34-143	
Methylene chloride, High/Med Level	ug/Kg	2200.455		2500.000	100.000	U 88	%	57-129	
1,1-Dichloroethane, High/Med Level	ug/Kg	1875.690		2500.000	50.000	U 75	%	68-119	
2-Butanone (MEK), High/Med Level	ug/Kg	1624.795		2500.000	100.000	U 65	%	40-125	
Chloroform, High/Med Level	ug/Kg	2031.410		2500.000	50.000	U 81	%	61-129	
1,1,1-Trichloroethane, High/Med Level	ug/Kg	1949.890		2500.000	50.000	U 78	%	69-133	
Carbon tetrachloride, High/Med Level	ug/Kg	1938.310		2500.000	50.000	U 78	%	59-127	
1,2-Dichloroethene (total), High/Med L	ug/Kg	3741.310		5000.000	50.000	U 75	%	60-139	
Benzene, High/Med Level	ug/Kg	1991.135		2500.000	25.000	U 80	%	67-122	
1,2-Dichloroethane, High/Med Level	ug/Kg	1873.120		2500.000	50.000	U 75	%	64-115	
Trichloroethene, High/Med Level	ug/Kg	2083.575		2500.000	25.000	U 83	%	70-123	
1,2-Dichloropropane, High/Med Level	ug/Kg	1970.785		2500.000	50.000	U 79	%	70-122	
Bromodichloromethane, High/Med Level	ug/Kg	2126.940		2500.000	100.000	U 85	%	66-128	
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	2096.305		2600.000	50.000	U 81	%	68-123	
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	1977.880		2500.000	100.000	U 79	%	54-119	
Toluene, High/Med Level	ug/Kg	2075.780		2500.000	25.000	U 83	%	72-123	
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	1809.655		2400.000	50.000	U 75	%	60-115	
1,1,2-Trichloroethane, High/Med Level	ug/Kg	2064.055		2500.000	50.000	U 83	%	67-133	
Tetrachloroethene, High/Med Level	ug/Kg	2060.740		2500.000	50.000	U 82	%	75-125	
2-Hexanone, High/Med Level	ug/Kg	1789.530		2500.000	100.000	U 72	%	50-116	
Dibromochloromethane, High/Med Level	ug/Kg	2073.760		2500.000	100.000	U 83	%	70-119	
Chlorobenzene, High/Med Level	ug/Kg	2048.435		2500.000	50.000	U 82	%	80-125	
Ethylbenzene, High/Med Level	ug/Kg	2166.785		2500.000	25.000	U 87	%	78-128	
Styrene, High/Med Level	ug/Kg	2198.895		2500.000	50.000	U 88	%	80-129	
Bromoform, High/Med Level	ug/Kg	1808.620		2500.000	100.000	U 72	%	70-123	
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	1963.705		2500.000	50.000	U 79	%	70-126	
Xylenes (total), High/Med Level	ug/Kg	6454.300		7500.000	50.000	U 86	%	77-131	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238377

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL16
Batch.....: 155577

Analyst...: jdn

MB	Method Blank		155575-001		07/26/2005	1032

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	100.000	U							
Vinyl chloride, High/Med Level	ug/Kg	25.000	U							
Bromomethane, High/Med Level	ug/Kg	100.000	U							
Chloroethane, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethene, High/Med Level	ug/Kg	50.000	U							
Carbon disulfide, High/Med Level	ug/Kg	100.000	U							
Acetone, High/Med Level	ug/Kg	200.000	U							
Methylene chloride, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethane, High/Med Level	ug/Kg	50.000	U							
2-Butanone (MEK), High/Med Level	ug/Kg	100.000	U							
Chloroform, High/Med Level	ug/Kg	50.000	U							
1,1,1-Trichloroethane, High/Med Level	ug/Kg	50.000	U							
Carbon tetrachloride, High/Med Level	ug/Kg	50.000	U							
1,2-Dichloroethene (total), High/Med L	ug/Kg	50.000	U							
Benzene, High/Med Level	ug/Kg	25.000	U							
1,2-Dichloroethane, High/Med Level	ug/Kg	50.000	U							
Trichloroethene, High/Med Level	ug/Kg	25.000	U							
1,2-Dichloropropane, High/Med Level	ug/Kg	50.000	U							
Bromodichloromethane, High/Med Level	ug/Kg	100.000	U							
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	50.000	U							
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	100.000	U							
Toluene, High/Med Level	ug/Kg	25.000	U							
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	50.000	U							
1,1,2-Trichloroethane, High/Med Level	ug/Kg	50.000	U							
Tetrachloroethene, High/Med Level	ug/Kg	50.000	U							
2-Hexanone, High/Med Level	ug/Kg	100.000	U							
Dibromochloromethane, High/Med Level	ug/Kg	100.000	U							
Chlorobenzene, High/Med Level	ug/Kg	50.000	U							
Ethylbenzene, High/Med Level	ug/Kg	25.000	U							
Styrene, High/Med Level	ug/Kg	50.000	U							
Bromoform, High/Med Level	ug/Kg	100.000	U							
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	50.000	U							
Xylenes (total), High/Med Level	ug/Kg	50.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238377 Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Test Method.....: Method
Method Description.: % Solids Determination
Parameter.....: % Solids

Batch.....: 154771
Equipment Code....:

Analyst...: daj
Test Code.: %SOLID

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB	154771-001		%	0.1000 U								07/18/2005	1400

Test Method.....: D2974-87
Method Description.: Organic Matter
Parameter.....: Organic Matter at 440 C

Batch.....: 154881
Equipment Code....:

Analyst...: daj
Test Code.: OM

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB	154771-001		%	0.10000 U								07/18/2005	1400

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
5) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

U Analyte was not detected at or above the stated limit.
< Not detected at or above the reporting limit.
J Result is less than the RL, but greater than or equal to the method detection limit.
B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
S Result was determined by the Method of Standard Additions.
F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

^ ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
* LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
+ MSA correlation coefficient is less than 0.995.
4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E SD: Serial dilution exceeds the control limits.
H MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
N MS, MSD: Spike recovery exceeds the upper or lower control limits.
W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

U Analyte was not detected at or above the stated limit.
ND Compound not detected.
J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
Q Result was qualitatively confirmed, but not quantified.
C Pesticide identification was confirmed by GC/MS.
Y The chromatographic response resembles a typical fuel pattern.
Z The chromatographic response does not resemble a typical fuel pattern.
E Result exceeded calibration range, secondary dilution required.
F AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

B MB: Batch QC is greater than reporting limit.
* LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
^ EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
A Concentration exceeds the instrument calibration range
a Concentration is below the method Reporting Limit (RL)
B Compound was found in the blank and sample.
D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
H Alternate peak selection upon analytical review
I Indicates the presence of an interfence, recovery is not calculated.
M Manually integrated compound.
P The lower of the two values is reported when the % difference between the results of two GC columns is

greater than 25%.

Abbreviations

AS	Post Digestion Spike (GFAA Samples - See Note 1 below)
Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column CCB Continuing Calibration Blank
CCV	Continuing Calibration Verification
CF	Confirmation analysis of original
C1	Confirmation analysis of A1 or D1
C2	Confirmation analysis of A2 or D2
C3	Confirmation analysis of A3 or D3
CRA	Low Level Standard Check - GFAA; Mercury
CRI	Low Level Standard Check - ICP
CV	Calilbration Verification Standard
Dil Fac	Dilution Factor - Secondary dilution analysis
D1	Dilution 1
D2	Dilution 2
D3	Dilution 3
DLFac	Detection Limit Factor
DSH	Distilled Standard - High Level
DSL	Distilled Standard - Low Level
DSM	Distilled Standard - Medium Level
EB1	Extraction Blank 1
EB2	Extraction Blank 2
EB3	DI Blank
ELC	Method Extracted LCS
ELD	Method Extracted LCD
ICAL	Initial calibration
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A - ICAP
ISB	Interference Check Sample B - ICAP
Job No.	The first six digits of the sample ID which refers to a specific client, project and sample group
	Lab ID An 8 number unique laboratory identification
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) Preparation Blank
MD	Method Duplicate
MDL	Method Detection Limit
MLE	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PREPF	Preparation factor used by the Laboratory's Information Management System (LIMS)
PDS	Post Digestion Spike (ICAP)
RA	Re-analysis of original
A1	Re-analysis of D1
A2	Re-analysis of D2
A3	Re-analysis of D3
RD	Re-extraction of dilution
RE	Re-extraction of original
RC	Re-extraction Confirmation
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor
RT	Retention Time

RTW	Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number
SCB	Seeded Control Blank
SD	Serial Dilution (Calculated when sample concentration exceeds 50 times the MDL)
UCB	Unseeded Control Blank
SSV	Second Source Verification Standard
SLCS	Solid Laboratory Control Standard(LCS)
PHC	pH Calibration Check LCSP pH Laboratory Control Sample
LCDP	pH Laboratory Control Sample Duplicate
MDPH	pH Sample Duplicate
MDFP	Flashpoint Sample Duplicate
LCFP	Flashpoint LCS
G1	Gelex Check Standard Range 0-1
G2	Gelex Check Standard Range 1-10
G3	Gelex Check Standard Range 10-100
G4	Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCS S=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)

Note 2: The MD calculates an absolute difference (A) when the sample concentration is less than 5 times the reporting limit. The control limit is represented as +/- the RL.

SEVERN TRENT **STL**

STL Chicago
2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Report To:
Contact: Stuart Cravens
Company: Kelron Environmental
Address: 1213 Dorchester Dr
Champaign, IL 61821-7031
Phone: 217-390-1503
Fax: 217-355-1385
E-Mail: kelron@egix.net

Bill To:
Contact: Harry R. Walton
Company:
Address: 2510 Brooks Drive
Decatur, IL 62236
Phone: 217-428-6782
Fax:
PO#: Quote:

Shaded Areas For Internal Use Only 1 of 2

Lab Lot# 238377

Package Sealed	Samples Sealed
(Yes) No	Yes (No)
Received on Ice	**Samples Intact**
(Yes) No	(Yes) No

Temperature °C of Cooler 3.2

Sampler Name: Stu Cravens
Signature:
Project Name: QUISTAR CSI
Project Number: 20005633
Project Location: Tuscola, IL
Lab PM: Dunna Ingersoll
Date Required — Hard Copy: __/__/__ Fax: __/__/__

Within Hold Time: (Yes) No
Preserv. Indicated: (Yes) No NA
pH Check OK: Yes No (NA)
Res Cl_2 Check OK: Yes No (NA)
Sample Labels and COC Agree: (Yes) No COC not present

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	TPH (DRO, GRO, OXO)	Organic Matter	VOC's	SVOC's	Additional Analyses / Remarks
		~~MW17-05~~	~~7-11-05~~	~~1345~~	~~S~~	~~G~~	~~X~~	~~X~~			Coolers did not include these samples. DLI 7/14/05
		~~MW19-03~~	~~7-12-05~~	~~0900~~	~~S~~	~~G~~	~~X~~	~~X~~			
		~~MW20-05~~	~~7-12-05~~	~~1120~~	~~S~~	~~G~~	~~X~~	~~X~~			
		~~MW21-03~~	~~7-12-05~~	~~1520~~	~~S~~	~~G~~	~~X~~	~~X~~			
1		MW22-02	7-13-05	0950	S	G	X*	X			
2		MW24-07	7-13-05	1440	S	G	X*	X			* DRO/ORO work shared to STL Valpo on job 238331 DLD 7/15/05
3		CL22-03		1720	S	G			X		
4		CL22-08		1733	S	G			X		
5		CL21-03		1750	S	G			X		
6		CL21-903		1755	S	G			X		
7		CL21-08		1818	S	G			X		
8		CL20-03		1830	S	G			X		

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Kelron Env	7-14-05	1413	Dunna Ingersoll	STL	7/14/05	14:13
Dunna Ingersoll	STL	7/15/05	15:10		STL	7/15/05	1500

Matrix Key
W = Wastewater; SE = Sediment; W = Water; SO = Solid; S = Soil; DS = Drum Solid; SL = Sludge; DL = Drum Liquid; M = Miscellaneous; L = Leachate; O = Oil; WI = Wipe; A = Air; Q = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other _____

Preservative Key
1. HCl, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS

Date Received 7, 15, 05
Courier: STL Hand Delivered ☒
Bill of Lading

SEVERN TRENT **STL**

STL Chicago
17 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Report To:
Contact: Stuart Cravens
Company: Kelrun Environmental
Address: 1213 Dorchester Drive
Champaign, IL 61821-7031
Phone: 217-340-1503
Fax: 217-355-1385
E-Mail: kelrun@egixchet

Bill To:
Contact: Harry R. Walton
Company:
Address: 2510 Brooks Drive
Decatur, IL 62736
Phone: 217-428-6782
Fax:
PO#: Quote:

Shaded Areas For Internal Use Only 2 of 2

Lab Lot# 238-17

Package Sealed	Samples Sealed
Yes No	Yes No
Received on Ice	**Samples Intact**
Yes No	Yes No

Temperature °C of Cooler

Sampler Name: Stu Cravens
Signature:
Project Name: EQUISTAR CSI
Project Number: 20005633
Project Location: Tuscola, IL
Date Required Hard Copy: __/__/__ Fax: __/__/__
Lab PM: Donna Ingersoll

Within Hold Time: Yes No
Preserv. Indicated: Yes No NA
pH Check OK: Yes No NA
Res Cl_2 Check OK: Yes No NA
Sample Labels and COC Agree: Yes No COC not present

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	TPH (GRO/DRO)	Organic Matter	VOCs	SVOCs							Additional Analyses / Remarks
Refrg #																	
# / Cont.																	
Volume																	
Preserv																	
9		CL20-08	7-13-05	1845	S	G			X								
10		CL20-10	7-13-05	1855	S	G			X	X							
		sjc ~~7-13-05~~															

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
	Kelrun Env	7-14-05	14:13	Donna Ingersoll	STL	7/14/05	14:13
Donna Ingersoll	STL	7/15/05	15:10		STL	7/15/05	15:00

Matrix Key
W = Wastewater
= Water
= Soil
= Sludge
= Miscellaneous
= Oil
= Air
SE = Sediment
SO = Solid
DS = Drum Solid
DL = Drum Liquid
L = Leachate
WI = Wipe
O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other _____

Preservative Key
1. HCl, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS

Date Received 7/15/05
Courier: STL
Hand Delivered ☒
Bill of Lading

SEVERN TRENT STL

STL Chicago
2417 Bond Street
University Park, IL 60466

Tel: 708 534 5200 Fax: 708 534 5211
www.stl-inc.com

SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 238392

Prepared For:

Kelron Environmental
1213 Dorchester Drive
Champaign, IL 61821-7031

Project: Equistar Well Installations

Attention: Stuart Cravens

Date: 07/29/2005

Donna Headlemann
Signature

Name: Donna L. Ingersoll for

Title: Project Manager

E-Mail: dingersoll@stl-inc.com

07/29/05
Date

STL Chicago
2417 Bond Street
University Park, IL 60466

PHONE: (708) 534-5200
FAX..: (708) 534-5211

This Report Contains (42) Pages

Severn Trent Laboratories Chicago
GC/MS Case Narrative

Kelron Environmental
Equistar Well Installation
Job Number: 238392
VOA DATA:

1. The sample analyses were performed within the method required 14-day hold time from the date of collection.

2. Methylene Chloride was detected in the method blank for batch 155638. Methylene Chloride was flagged with a "B" in all of the associated samples. The Method Blanks had all other target compounds below the reporting limit.

3. The LCS (Laboratory Control Samples) had all five controlled spike recoveries within the in-house generated QC limits.

4. Matrix Spike/Matrix Spike Duplicate analyses were not performed on this sample set.

5. All of the volatile samples had surrogate recoveries within the in-house generated QC limits.

6. The soil samples were prepared using the low and high level Method 5035. All samples were analyzed following SW846 Method 8260B and 8000B. All calibration criteria were met per method or SOP (for minimum R values for certain compounds). The low point in the initial calibration verifies the base reporting limits. The target compounds were quantitated using the initial calibration.

7. All of the volatile samples had internal standard areas and retention times within the SOP acceptance limits as compared to the corresponding calibration verification standard.

8. Due to screening results, samples 7, 8, 9, and 10 were all initially analyzed using the high level 5035 soil method. A secondary dilution was required on sample 9. Sample 11 was analyzed using the 5035 low level method. The soil results and reporting limits were adjusted to account for the sample weights, dilutions, analytical procedure, and on a dry weight basis.

John Nagel
GC/MS Dept.

7-29-05
Date

Severn Trent Laboratories Chicago
GC Volatile Case Narrative

Kelron Environmental
Equistar CSI
JOB# 238392
Method GRO

1. All required holding times were met for the analysis.

2. The MB (Method Blank) samples did not have any results above the reporting limit.

3. All samples had all surrogate recoveries within the in-house QC limits.

4. The LCS (Laboratory Control Sample) samples had the spike recoveries within the in-house QC limits.

5. MS/MSD (Matrix Spike/Matrix Spike Duplicate) analyses were performed on samples -1 and -5. The MS/MSD samples had the spike recoveries and the RPD values within the in-house QC limits.

6. All initial and calibration verification standards were within the control limits.

7. The samples were analyzed for GRO (Gasoline Range Organics) based on SW846 methods 5030 and 8015G. A HP 5890 gas chromatograph equipped with a FID (Flame Ionization Detector) and a Tekmar LSC 2000/2016 ALS was used for the analysis of these samples. Samples -5 and -6 were analyzed at 2.5x dilutions. All of the other samples were analyzed undiluted by the low-level method.

Gary Rynkar
GC/VOA Section Manager

7/28/15
Date

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SAMPLE INFORMATION
Date: 07/29/2005

Job Number.: 238392
Customer...: Kelron Environmental
Attn.....: Stuart Cravens

Project Number.....: 20005633
Customer Project ID....: EQUISTAR CSI
Project Description....: Equistar Well Installations

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
238392-1	MW17-05	Soil	07/11/2005	13:45	07/16/2005	09:00
238392-2	MW19-03	Soil	07/12/2005	09:00	07/16/2005	09:00
238392-3	MW20-05	Soil	07/12/2005	11:30	07/16/2005	09:00
238392-4	MW21-03	Soil	07/12/2005	15:20	07/16/2005	09:00
238392-5	MW28-03	Soil	07/14/2005	15:05	07/16/2005	09:00
238392-6	MW28-07	Soil	07/14/2005	15:30	07/16/2005	09:00
238392-7	ET34-03	Soil	07/14/2005	16:45	07/16/2005	09:00
238392-8	ET34-05	Soil	07/14/2005	16:55	07/16/2005	09:00
238392-9	ET34-905	Soil	07/14/2005	17:00	07/16/2005	09:00
238392-10	ET3~~4~~5-04 SJC	Soil	07/14/2005	17:50	07/16/2005	09:00
238392-11	ET35-10	Soil	07/14/2005	17:55	07/16/2005	09:00
238392-12	MW31-04	Soil	07/15/2005	10:20	07/16/2005	09:00

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LABORATORY TEST RESULTS

Job Number: 238392

Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Customer Sample ID: MW17-05
Date Sampled.....: 07/11/2005
Time Sampled.....: 13:45
Sample Matrix.....: Soil

Laboratory Sample ID: 238392-1
Date Received.....: 07/16/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
Method	% Solids Determination					
	% Solids, Solid	77.3	0.10	%	07/18/05	daj
	% Moisture, Solid	22.7	0.10	%	07/18/05	daj
D2974-87	Organic Matter					
	Organic Matter at 440 C, Solid	1.9	0.1	%	07/18/05	daj
8015B MGRO	TPH - Gasoline Range Organics (GRO)					
	Gasoline Range Organics (GRO), Solid*	ND	65	ug/Kg	07/21/05	wre

* In Description = Dry Wgt.

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L A B O R A T O R Y T E S T R E S U L T S

Job Number: 238392

Date: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN: Stuart Cravens

Customer Sample ID: MW19-03
Date Sampled.....: 07/12/2005
Time Sampled.....: 09:00
Sample Matrix.....: Soil

Laboratory Sample ID: 238392-2
Date Received.....: 07/16/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
Method	% Solids Determination					
	% Solids, Solid	80.6	0.10	%	07/18/05	daj
	% Moisture, Solid	19.4	0.10	%	07/18/05	daj
D2974-87	Organic Matter					
	Organic Matter at 440 C, Solid	2.3	0.1	%	07/18/05	daj
8015B MGRO	TPH - Gasoline Range Organics (GRO)					
	Gasoline Range Organics (GRO), Solid*	ND	62	ug/Kg	07/21/05	wre

* Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 238392

Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Customer Sample ID: MW20-05
Date Sampled.....: 07/12/2005
Time Sampled.....: 11:30
Sample Matrix.....: Soil

Laboratory Sample ID: 238392-3
Date Received.....: 07/16/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
Method	% Solids Determination					
	% Solids, Solid	77.9	0.10	%	07/18/05	daj
	% Moisture, Solid	22.1	0.10	%	07/18/05	daj
D2974-87	Organic Matter					
	Organic Matter at 440 C, Solid	1.6	0.1	%	07/18/05	daj
8015B MGRO	TPH - Gasoline Range Organics (GRO)					
	Gasoline Range Organics (GRO), Solid*	ND	64	ug/Kg	07/21/05	wre

* In Description = Dry Wgt.

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L A B O R A T O R Y T E S T R E S U L T S

Job Number: 238392

Date: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN: Stuart Cravens

Customer Sample ID: MW21-03
Date Sampled.....: 07/12/2005
Time Sampled.....: 15:20
Sample Matrix.....: Soil

Laboratory Sample ID: 238392-4
Date Received.....: 07/16/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
Method	% Solids Determination					
	% Solids, Solid	74.8	0.10	%	07/18/05	daj
	% Moisture, Solid	25.2	0.10	%	07/18/05	daj
D2974-87	Organic Matter					
	Organic Matter at 440 C, Solid	6.1	0.1	%	07/18/05	daj
8015B MGRO	TPH - Gasoline Range Organics (GRO)					
	Gasoline Range Organics (GRO), Solid*	ND	67	ug/Kg	07/21/05	wre

* Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 238392

Date: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN: Stuart Cravens

Customer Sample ID: MW28-03
Date Sampled.....: 07/14/2005
Time Sampled.....: 15:05
Sample Matrix.....: Soil

Laboratory Sample ID: 238392-5
Date Received.....: 07/16/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
Method	% Solids Determination					
	% Solids, Solid	77.6	0.10	%	07/18/05	daj
	% Moisture, Solid	22.4	0.10	%	07/18/05	daj
D2974-87	Organic Matter					
	Organic Matter at 440 C, Solid	2.5	0.1	%	07/18/05	daj
8015B MGRO	TPH - Gasoline Range Organics (GRO)					
	Gasoline Range Organics (GRO), Solid*	420	160	ug/Kg	07/22/05	wre

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 238392

Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Customer Sample ID: MW28-07
Date Sampled.....: 07/14/2005
Time Sampled.....: 15:30
Sample Matrix.....: Soil

Laboratory Sample ID: 238392-6
Date Received.....: 07/16/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
Method	% Solids Determination					
	% Solids, Solid	80.8	0.10	%	07/18/05	daj
	% Moisture, Solid	19.2	0.10	%	07/18/05	daj
D2974-87	Organic Matter					
	Organic Matter at 440 C, Solid	1.0	0.1	%	07/18/05	daj
8015B MGRO	TPH - Gasoline Range Organics (GRO)					
	Gasoline Range Organics (GRO), Solid*	350	150	ug/Kg	07/22/05	wre

* . Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 238392 Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Customer Sample ID: ET34-03
Date Sampled.....: 07/14/2005
Time Sampled.....: 16:45
Sample Matrix.....: Soil

Laboratory Sample ID: 238392-7
Date Received.....: 07/16/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	Vinyl chloride, High/Med Level*	ND	26	ug/Kg	07/27/05	jdn
	Bromomethane, High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	Chloroethane, High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	1,1-Dichloroethene, High/Med Level*	ND	51	ug/Kg	07/27/05	jdn
	Carbon disulfide, High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	Acetone, High/Med Level*	ND	200	ug/Kg	07/27/05	jdn
	Methylene chloride, High/Med Level*	840	100	ug/Kg	07/27/05	jdn
	1,1-Dichloroethane, High/Med Level*	ND	51	ug/Kg	07/27/05	jdn
	2-Butanone (MEK), High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	Chloroform, High/Med Level*	ND	51	ug/Kg	07/27/05	jdn
	1,1,1-Trichloroethane, High/Med Level*	ND	51	ug/Kg	07/27/05	jdn
	Carbon tetrachloride, High/Med Level*	ND	51	ug/Kg	07/27/05	jdn
	1,2-Dichloroethene (total), High/Med Level*	ND	51	ug/Kg	07/27/05	jdn
	Benzene, High/Med Level*	790	26	ug/Kg	07/27/05	jdn
	1,2-Dichloroethane, High/Med Level*	ND	51	ug/Kg	07/27/05	jdn
	Trichloroethene, High/Med Level*	ND	26	ug/Kg	07/27/05	jdn
	1,2-Dichloropropane, High/Med Level*	ND	51	ug/Kg	07/27/05	jdn
	Bromodichloromethane, High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	cis-1,3-Dichloropropene, High/Med Level*	ND	51	ug/Kg	07/27/05	jdn
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	Toluene, High/Med Level*	ND	26	ug/Kg	07/27/05	jdn
	trans-1,3-Dichloropropene, High/Med Level*	ND	51	ug/Kg	07/27/05	jdn
	1,1,2-Trichloroethane, High/Med Level*	ND	51	ug/Kg	07/27/05	jdn
	Tetrachloroethene, High/Med Level*	ND	51	ug/Kg	07/27/05	jdn
	2-Hexanone, High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	Dibromochloromethane, High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	Chlorobenzene, High/Med Level*	ND	51	ug/Kg	07/27/05	jdn
	Ethylbenzene, High/Med Level*	790	26	ug/Kg	07/27/05	jdn
	Styrene, High/Med Level*	ND	51	ug/Kg	07/27/05	jdn
	Bromoform, High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	51	ug/Kg	07/27/05	jdn
	Xylenes (total), High/Med Level*	ND	51	ug/Kg	07/27/05	jdn
Method	% Solids Determination					
	% Solids, Solid	77.7	0.10	%	07/18/05	daj
	% Moisture, Solid	22.3	0.10	%	07/18/05	daj

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 238392 Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Customer Sample ID: ET34-05
Date Sampled.....: 07/14/2005
Time Sampled.....: 16:55
Sample Matrix.....: Soil

Laboratory Sample ID: 238392-8
Date Received.....: 07/16/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	Vinyl chloride, High/Med Level*	ND	26	ug/Kg	07/27/05	jdn
	Bromomethane, High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	Chloroethane, High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	1,1-Dichloroethene, High/Med Level*	ND	52	ug/Kg	07/27/05	jdn
	Carbon disulfide, High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	Acetone, High/Med Level*	ND	210	ug/Kg	07/27/05	jdn
	Methylene chloride, High/Med Level*	880	100	ug/Kg	07/27/05	jdn
	1,1-Dichloroethane, High/Med Level*	ND	52	ug/Kg	07/27/05	jdn
	2-Butanone (MEK), High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	Chloroform, High/Med Level*	ND	52	ug/Kg	07/27/05	jdn
	1,1,1-Trichloroethane, High/Med Level*	ND	52	ug/Kg	07/27/05	jdn
	Carbon tetrachloride, High/Med Level*	ND	52	ug/Kg	07/27/05	jdn
	1,2-Dichloroethene (total), High/Med Level*	ND	52	ug/Kg	07/27/05	jdn
	Benzene, High/Med Level*	3700	26	ug/Kg	07/27/05	jdn
	1,2-Dichloroethane, High/Med Level*	ND	52	ug/Kg	07/27/05	jdn
	Trichloroethene, High/Med Level*	ND	26	ug/Kg	07/27/05	jdn
	1,2-Dichloropropane, High/Med Level*	ND	52	ug/Kg	07/27/05	jdn
	Bromodichloromethane, High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	cis-1,3-Dichloropropene, High/Med Level*	ND	52	ug/Kg	07/27/05	jdn
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	Toluene, High/Med Level*	ND	26	ug/Kg	07/27/05	jdn
	trans-1,3-Dichloropropene, High/Med Level*	ND	52	ug/Kg	07/27/05	jdn
	1,1,2-Trichloroethane, High/Med Level*	ND	52	ug/Kg	07/27/05	jdn
	Tetrachloroethene, High/Med Level*	ND	52	ug/Kg	07/27/05	jdn
	2-Hexanone, High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	Dibromochloromethane, High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	Chlorobenzene, High/Med Level*	ND	52	ug/Kg	07/27/05	jdn
	Ethylbenzene, High/Med Level*	500	26	ug/Kg	07/27/05	jdn
	Styrene, High/Med Level*	ND	52	ug/Kg	07/27/05	jdn
	Bromoform, High/Med Level*	ND	100	ug/Kg	07/27/05	jdn
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	52	ug/Kg	07/27/05	jdn
	Xylenes (total), High/Med Level*	ND	52	ug/Kg	07/27/05	jdn
Method	% Solids Determination					
	% Solids, Solid	76.4	0.10	%	07/18/05	daj
	% Moisture, Solid	23.6	0.10	%	07/18/05	daj

* ... Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 238392

Date: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN: Stuart Cravens

Customer Sample ID: ET34-905
Date Sampled.....: 07/14/2005
Time Sampled.....: 17:00
Sample Matrix.....: Soil

Laboratory Sample ID: 238392-9
Date Received.....: 07/16/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	84	ug/Kg	07/27/05	jdn
	Vinyl chloride, High/Med Level*	ND	21	ug/Kg	07/27/05	jdn
	Bromomethane, High/Med Level*	ND	84	ug/Kg	07/27/05	jdn
	Chloroethane, High/Med Level*	ND	84	ug/Kg	07/27/05	jdn
	1,1-Dichloroethene, High/Med Level*	ND	42	ug/Kg	07/27/05	jdn
	Carbon disulfide, High/Med Level*	ND	84	ug/Kg	07/27/05	jdn
	Acetone, High/Med Level*	ND	170	ug/Kg	07/27/05	jdn
	Methylene chloride, High/Med Level*	650	84	ug/Kg	07/27/05	jdn
	1,1-Dichloroethane, High/Med Level*	ND	42	ug/Kg	07/27/05	jdn
	2-Butanone (MEK), High/Med Level*	ND	84	ug/Kg	07/27/05	jdn
	Chloroform, High/Med Level*	ND	42	ug/Kg	07/27/05	jdn
	1,1,1-Trichloroethane, High/Med Level*	ND	42	ug/Kg	07/27/05	jdn
	Carbon tetrachloride, High/Med Level*	ND	42	ug/Kg	07/27/05	jdn
	1,2-Dichloroethene (total), High/Med Level*	ND	42	ug/Kg	07/27/05	jdn
	Benzene, High/Med Level*	2400	21	ug/Kg	07/27/05	jdn
	1,2-Dichloroethane, High/Med Level*	ND	42	ug/Kg	07/27/05	jdn
	Trichloroethene, High/Med Level*	ND	21	ug/Kg	07/27/05	jdn
	1,2-Dichloropropane, High/Med Level*	ND	42	ug/Kg	07/27/05	jdn
	Bromodichloromethane, High/Med Level*	ND	84	ug/Kg	07/27/05	jdn
	cis-1,3-Dichloropropene, High/Med Level*	ND	42	ug/Kg	07/27/05	jdn
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	84	ug/Kg	07/27/05	jdn
	Toluene, High/Med Level*	180	21	ug/Kg	07/27/05	jdn
	trans-1,3-Dichloropropene, High/Med Level*	ND	42	ug/Kg	07/27/05	jdn
	1,1,2-Trichloroethane, High/Med Level*	ND	42	ug/Kg	07/27/05	jdn
	Tetrachloroethene, High/Med Level*	ND	42	ug/Kg	07/27/05	jdn
	2-Hexanone, High/Med Level*	ND	84	ug/Kg	07/27/05	jdn
	Dibromochloromethane, High/Med Level*	ND	84	ug/Kg	07/27/05	jdn
	Chlorobenzene, High/Med Level*	ND	42	ug/Kg	07/27/05	jdn
	Ethylbenzene, High/Med Level*	28000	210	ug/Kg	07/28/05	jdn
	Styrene, High/Med Level*	ND	42	ug/Kg	07/27/05	jdn
	Bromoform, High/Med Level*	ND	84	ug/Kg	07/27/05	jdn
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	42	ug/Kg	07/27/05	jdn
	Xylenes (total), High/Med Level*	2800	42	ug/Kg	07/27/05	jdn
Method	% Solids Determination					
	% Solids, Solid	81.5	0.10	%	07/18/05	daj
	% Moisture, Solid	18.5	0.10	%	07/18/05	daj

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 238392 Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Customer Sample ID: ET34-04 5 SJC
Date Sampled.....: 07/14/2005
Time Sampled.....: 17:50
Sample Matrix.....: Soil

Laboratory Sample ID: 238392-10
Date Received.....: 07/16/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	110	ug/Kg	07/27/05	jdn
	Vinyl chloride, High/Med Level*	ND	27	ug/Kg	07/27/05	jdn
	Bromomethane, High/Med Level*	ND	110	ug/Kg	07/27/05	jdn
	Chloroethane, High/Med Level*	ND	110	ug/Kg	07/27/05	jdn
	1,1-Dichloroethene, High/Med Level*	ND	54	ug/Kg	07/27/05	jdn
	Carbon disulfide, High/Med Level*	ND	110	ug/Kg	07/27/05	jdn
	Acetone, High/Med Level*	ND	220	ug/Kg	07/27/05	jdn
	Methylene chloride, High/Med Level*	850	110	ug/Kg	07/27/05	jdn
	1,1-Dichloroethane, High/Med Level*	ND	54	ug/Kg	07/27/05	jdn
	2-Butanone (MEK), High/Med Level*	ND	110	ug/Kg	07/27/05	jdn
	Chloroform, High/Med Level*	ND	54	ug/Kg	07/27/05	jdn
	1,1,1-Trichloroethane, High/Med Level*	ND	54	ug/Kg	07/27/05	jdn
	Carbon tetrachloride, High/Med Level*	ND	54	ug/Kg	07/27/05	jdn
	1,2-Dichloroethene (total), High/Med Level*	ND	54	ug/Kg	07/27/05	jdn
	Benzene, High/Med Level*	2700	27	ug/Kg	07/27/05	jdn
	1,2-Dichloroethane, High/Med Level*	ND	54	ug/Kg	07/27/05	jdn
	Trichloroethene, High/Med Level*	ND	27	ug/Kg	07/27/05	jdn
	1,2-Dichloropropane, High/Med Level*	ND	54	ug/Kg	07/27/05	jdn
	Bromodichloromethane, High/Med Level*	ND	110	ug/Kg	07/27/05	jdn
	cis-1,3-Dichloropropene, High/Med Level*	ND	54	ug/Kg	07/27/05	jdn
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	110	ug/Kg	07/27/05	jdn
	Toluene, High/Med Level*	ND	27	ug/Kg	07/27/05	jdn
	trans-1,3-Dichloropropene, High/Med Level*	ND	54	ug/Kg	07/27/05	jdn
	1,1,2-Trichloroethane, High/Med Level*	ND	54	ug/Kg	07/27/05	jdn
	Tetrachloroethene, High/Med Level*	ND	54	ug/Kg	07/27/05	jdn
	2-Hexanone, High/Med Level*	ND	110	ug/Kg	07/27/05	jdn
	Dibromochloromethane, High/Med Level*	ND	110	ug/Kg	07/27/05	jdn
	Chlorobenzene, High/Med Level*	ND	54	ug/Kg	07/27/05	jdn
	Ethylbenzene, High/Med Level*	1200	27	ug/Kg	07/27/05	jdn
	Styrene, High/Med Level*	ND	54	ug/Kg	07/27/05	jdn
	Bromoform, High/Med Level*	ND	110	ug/Kg	07/27/05	jdn
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	54	ug/Kg	07/27/05	jdn
	Xylenes (total), High/Med Level*	ND	54	ug/Kg	07/27/05	jdn
Method	% Solids Determination					
	% Solids, Solid	74.0	0.10	%	07/18/05	daj
	% Moisture, Solid	26.0	0.10	%	07/18/05	daj

* ... Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 238392

Date: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN: Stuart Cravens

Customer Sample ID: ET35-10
Date Sampled.....: 07/14/2005
Time Sampled.....: 17:55
Sample Matrix.....: Soil

Laboratory Sample ID: 238392-11
Date Received.....: 07/16/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
Method	% Solids Determination					
	% Solids, Solid	89.0	0.10	%	07/18/05	daj
	% Moisture, Solid	11.0	0.10	%	07/18/05	daj
8260B	Volatile Organics					
	Chloromethane, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	Vinyl chloride, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	Bromomethane, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	Chloroethane, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	1,1-Dichloroethene, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	Carbon disulfide, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	Acetone, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	Methylene chloride, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	1,1-Dichloroethane, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	2-Butanone (MEK), Solid*	ND	4.1	ug/Kg	07/26/05	ges
	Chloroform, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	1,1,1-Trichloroethane, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	Carbon tetrachloride, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	1,2-Dichloroethene (total), Solid*	ND	4.1	ug/Kg	07/26/05	ges
	Benzene, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	1,2-Dichloroethane, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	Trichloroethene, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	1,2-Dichloropropane, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	Bromodichloromethane, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	cis-1,3-Dichloropropene, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	4-Methyl-2-pentanone (MIBK), Solid*	ND	4.1	ug/Kg	07/26/05	ges
	Toluene, Solid*	4.6	4.1	ug/Kg	07/26/05	ges
	trans-1,3-Dichloropropene, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	1,1,2-Trichloroethane, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	Tetrachloroethene, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	2-Hexanone, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	Dibromochloromethane, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	Chlorobenzene, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	Ethylbenzene, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	Styrene, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	Bromoform, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	1,1,2,2-Tetrachloroethane, Solid*	ND	4.1	ug/Kg	07/26/05	ges
	Xylenes (total), Solid*	ND	4.1	ug/Kg	07/26/05	ges

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 238392

Date: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN: Stuart Cravens

Customer Sample ID: MW31-04
Date Sampled.....: 07/15/2005
Time Sampled.....: 10:20
Sample Matrix.....: Soil

Laboratory Sample ID: 238392-12
Date Received.....: 07/16/2005
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
Method	% Solids Determination					
	% Solids, Solid	81.0	0.10	%	07/18/05	daj
	% Moisture, Solid	19.0	0.10	%	07/18/05	daj
D2974-87	Organic Matter					
	Organic Matter at 440 C, Solid	2.9	0.1	%	07/18/05	daj
8015B MGRO	TPH - Gasoline Range Organics (GRO)					
	Gasoline Range Organics (GRO), Solid*	ND	62	ug/Kg	07/21/05	wre

* ... Description = Dry Wgt.

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LABORATORY CHRONICLE

Job Number: 238392 Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Lab ID: 238392-1 Client ID: MW17-05 Date Recvd: 07/16/2005 Sample Date: 07/11/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154772	154772	07/18/2005	1432	
5030B	5030 Purge & Trap	1	155218		07/21/2005	0405	
D2974-87	Organic Matter	1	154878	154772	07/18/2005	1432	
8015B MGRO	TPH - Gasoline Range Organics (GRO)	1	155219	155218	07/21/2005	0405	1.00000

Lab ID: 238392-2 Client ID: MW19-03 Date Recvd: 07/16/2005 Sample Date: 07/12/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154772	154772	07/18/2005	1434	
5030B	5030 Purge & Trap	1	155218		07/21/2005	0556	
D2974-87	Organic Matter	1	154878	154772	07/18/2005	1434	
8015B MGRO	TPH - Gasoline Range Organics (GRO)	1	155219	155218	07/21/2005	0556	1.00000

Lab ID: 238392-3 Client ID: MW20-05 Date Recvd: 07/16/2005 Sample Date: 07/12/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154772	154772	07/18/2005	1436	
5030B	5030 Purge & Trap	1	155218		07/21/2005	0634	
D2974-87	Organic Matter	1	154878	154772	07/18/2005	1436	
8015B MGRO	TPH - Gasoline Range Organics (GRO)	1	155219	155218	07/21/2005	0634	1.00000

Lab ID: 238392-4 Client ID: MW21-03 Date Recvd: 07/16/2005 Sample Date: 07/12/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154772	154772	07/18/2005	1438	
5030B	5030 Purge & Trap	1	155218		07/21/2005	0711	
D2974-87	Organic Matter	1	154878	154772	07/18/2005	1438	
8015B MGRO	TPH - Gasoline Range Organics (GRO)	1	155219	155218	07/21/2005	0711	1.00000

Lab ID: 238392-5 Client ID: MW28-03 Date Recvd: 07/16/2005 Sample Date: 07/14/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154772	154772	07/18/2005	1440	
5030B	5030 Purge & Trap	1	155743		07/22/2005	0707	
D2974-87	Organic Matter	1	154878	154772	07/18/2005	1440	
8015B MGRO	TPH - Gasoline Range Organics (GRO)	1	155744	155743	07/22/2005	0707	2.50000

Lab ID: 238392-6 Client ID: MW28-07 Date Recvd: 07/16/2005 Sample Date: 07/14/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154772	154772	07/18/2005	1442	
5030B	5030 Purge & Trap	1	155743		07/22/2005	0853	
D2974-87	Organic Matter	1	154878	154772	07/18/2005	1442	
8015B MGRO	TPH - Gasoline Range Organics (GRO)	1	155744	155743	07/22/2005	0853	2.50000

Lab ID: 238392-7 Client ID: ET34-03 Date Recvd: 07/16/2005 Sample Date: 07/14/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154772	154772	07/18/2005	1446	
5030A	5030 Purge & Trap of Methanol Extract	1	155774		07/27/2005	1448	
5035	5035 Preservation High (Methanol)	1	154693		07/14/2005	1645	
5035	5035 Preservation Low	1	154692		07/14/2005	1645	
5035	5035 Preservation Low	2	154692		07/14/2005	1645	
8260B	Volatile Organics	1	155775	154693-155774	07/27/2005	1448	1.0000

Lab ID: 238392-8 Client ID: ET34-05 Date Recvd: 07/16/2005 Sample Date: 07/14/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154772	154772	07/18/2005	1450	
5030A	5030 Purge & Trap of Methanol Extract	1	155774		07/27/2005	1512	
5035	5035 Preservation High (Methanol)	1	154693		07/14/2005	1655	
5035	5035 Preservation Low	1	154692		07/14/2005	1655	

L A B O R A T O R Y C H R O N I C L E

Job Number: 238392 Date: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Lab ID: 238392-8 Client ID: ET34-05 Date Recvd: 07/16/2005 Sample Date: 07/14/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5035	5035 Preservation Low	2	154692		07/14/2005	1655	
8260B	Volatile Organics	1	155775	154693-155774	07/27/2005	1512	1.0000

Lab ID: 238392-9 Client ID: ET34-905 Date Recvd: 07/16/2005 Sample Date: 07/14/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154772	154772	07/18/2005	1452	
5030A	5030 Purge & Trap of Methanol Extract	1	155774		07/27/2005	1535	
5030A	5030 Purge & Trap of Methanol Extract	2	155887		07/28/2005	1510	
5035	5035 Preservation High (Methanol)	1	154693		07/14/2005	1700	
5035	5035 Preservation Low	1	154692		07/14/2005	1700	
5035	5035 Preservation Low	2	154692		07/14/2005	1700	
8260B	Volatile Organics	1	155775	154693-155774	07/27/2005	1535	1.0000
8260B	Volatile Organics	1	155888	154693-155887	07/28/2005	1510	10.000

Lab ID: 238392-10 Client ID: ET34-04 Date Recvd: 07/16/2005 Sample Date: 07/14/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154772	154772	07/18/2005	1454	
5030A	5030 Purge & Trap of Methanol Extract	1	155774		07/27/2005	1559	
5035	5035 Preservation High (Methanol)	1	154693		07/14/2005	1750	
5035	5035 Preservation Low	1	154692		07/14/2005	1750	
5035	5035 Preservation Low	2	154692		07/14/2005	1750	
8260B	Volatile Organics	1	155775	154693-155774	07/27/2005	1559	1.0000

Lab ID: 238392-11 Client ID: ET35-10 Date Recvd: 07/16/2005 Sample Date: 07/14/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154772	154772	07/18/2005	1456	
5035	5035 Archon Closed Purge & Trap	1	155535		07/25/2005	1306	
5035	5035 Archon Closed Purge & Trap	2	155638		07/26/2005	1154	
5035	5035 Preservation High (Methanol)	1	154693		07/14/2005	1755	
5035	5035 Preservation Low	1	154692		07/14/2005	1755	
5035	5035 Preservation Low	2	154692		07/14/2005	1755	
8260B	Volatile Organics	1	155639	154692-155638	07/26/2005	1154	1.00000

Lab ID: 238392-12 Client ID: MW31-04 Date Recvd: 07/16/2005 Sample Date: 07/15/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	154772	154772	07/18/2005	1444	
5030B	5030 Purge & Trap	1	155218		07/21/2005	0939	
D2974-87	Organic Matter	1	154878	154772	07/18/2005	1444	
8015B MGRO	TPH - Gasoline Range Organics (GRO)	1	155219	155218	07/21/2005	0939	1.00000

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SURROGATE RECOVERIES REPORT

Job Number.: 238392 Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Method.....: TPH - Gasoline Range Organics (GRO) Test Matrix...: Solid Prep Batch..: 155218
Method Code...: 8015G Batch(s).....: 155219

Lab ID	DT	Sample ID	Date	ATFT	BRFLBE
LCS			07/21/2005	109	95
MB			07/21/2005	97	95
238392- 1		MW17-05	07/21/2005	92	87
238392- 1	MS	MW17-05	07/21/2005	103	87
238392- 1	MSD	MW17-05	07/21/2005	97	82
238392- 2		MW19-03	07/21/2005	91	86
238392- 3		MW20-05	07/21/2005	90	84
238392- 4		MW21-03	07/21/2005	79	71
238392- 12		MW31-04	07/21/2005	79	72

Test	Test Description	Limits
ATFT	a,a,a-Trifluorotoluene	70 - 130
BRFLBE	4-Bromofluorobenzene (surr)	56 - 120

Method.....: TPH - Gasoline Range Organics (GRO) Test Matrix...: Solid Prep Batch..: 155743
Method Code...: 8015G Batch(s).....: 155744

Lab ID	DT	Sample ID	Date	ATFT	BRFLBE
LCS			07/22/2005	100	96
MB			07/22/2005	97	90
238392- 5		MW28-03	07/22/2005	83	78
238392- 5	MS	MW28-03	07/22/2005	86	82
238392- 5	MSD	MW28-03	07/22/2005	83	79
238392- 6		MW28-07	07/22/2005	91	84

Test	Test Description	Limits
ATFT	a,a,a-Trifluorotoluene	70 - 130
BRFLBE	4-Bromofluorobenzene (surr)	56 - 120

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SURROGATE RECOVERIES REPORT

Job Number.: 238392 | Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN: Stuart Cravens

Method.....: Volatile Organics | Test Matrix...: Solid | Prep Batch..: 154692
Method Code...: 8260B | Batch(s).....: 155639

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
238392- 11		ET35-10	07/26/2005	133	113	131	110

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	55 - 145
BRFLBE	4-Bromofluorobenzene (surr)	68 - 132
DBRFLM	Dibromofluoromethane (surr)	63 - 146
TOLD8	Toluene-d8 (surr)	66 - 140

Method.....: Volatile Organics | Test Matrix...: High/Med Level | Prep Batch..: 154693
Method Code...: 8260B | Batch(s).....: 155775 155888

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
238392- 7		ET34-03	07/27/2005	91	90	90	92
238392- 8		ET34-05	07/27/2005	86	89	90	90
238392- 9		ET34-905	07/27/2005	88	93	88	93
238392- 9	D1	ET34-905	07/28/2005	93	95	93	94
238392- 10		ET34-04	07/27/2005	85	91	89	92

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	43 - 139
BRFLBE	4-Bromofluorobenzene (surr)	57 - 124
DBRFLM	Dibromofluoromethane (surr)	64 - 132
TOLD8	Toluene-d8 (surr)	70 - 128

Method.....: Volatile Organics | Test Matrix...: Solid | Prep Batch..: 155638
Method Code...: 8260B | Batch(s).....: 155639

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCD			07/26/2005	114	111	113	111
LCS			07/26/2005	118	113	118	112
MB			07/26/2005	120	111	123	109

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	55 - 145
BRFLBE	4-Bromofluorobenzene (surr)	68 - 132
DBRFLM	Dibromofluoromethane (surr)	63 - 146
TOLD8	Toluene-d8 (surr)	66 - 140

Method.....: Volatile Organics | Test Matrix...: High/Med Level | Prep Batch..: 155774
Method Code...: 8260B | Batch(s).....: 155775

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCS			07/27/2005	89	90	93	93
MB			07/27/2005	91	87	92	90

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SURROGATE RECOVERIES REPORT

Job Number.: 238392 Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN: Stuart Cravens

Method.....: Volatile Organics Test Matrix...: High/Med Level Prep Batch..: 155774
Method Code...: 8260B Batch(s).....: 155775

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	43 - 139
BRFLBE	4-Bromofluorobenzene (surr)	57 - 124
DBRFLM	Dibromofluoromethane (surr)	64 - 132
TOLD8	Toluene-d8 (surr)	70 - 128

Method.....: Volatile Organics Test Matrix...: High/Med Level Prep Batch..: 155887
Method Code...: 8260B Batch(s).....: 155888

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCS			07/28/2005	87	93	93	94
MB			07/28/2005	93	90	94	91

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	43 - 139
BRFLBE	4-Bromofluorobenzene (surr)	57 - 124
DBRFLM	Dibromofluoromethane (surr)	64 - 132
TOLD8	Toluene-d8 (surr)	70 - 128

QUALITY CONTROL RESULTS

Job Number.: 238392

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CS1 | ATTN: Stuart Cravens

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8015B MGRO
Method Description.: TPH - Gasoline Range Organics (GRO)
Equipment Code....: INST1112
Batch.....: 155219
Analyst...: wre

LCS	Laboratory Control Sample	G05G21DSA	155218-002		07/21/2005	0251

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Gasoline Range Organics (GRO), Solid	ug/Kg	409.619		400.000	50.000 U	102	%	70-130	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238392

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8015B MGRO
Method Description.: TPH - Gasoline Range Organics (GRO)
Equipment Code....: INST1112
Batch.....: 155219
Analyst...: wre

MB	Method Blank		155218-001		07/21/2005	0214

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Gasoline Range Organics (GRO), Solid	ug/Kg	50.000 U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238392

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8015B MGRO
Method Description.: TPH - Gasoline Range Organics (GRO)
Equipment Code....: INST1314
Batch.....: 155744
Analyst...: wre

LCS	Laboratory Control Sample	G05G22DSA	155743-001		07/22/2005	0557

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Gasoline Range Organics (GRO), Solid	ug/Kg	401.476		400.000	50.000 U	100	%	70-130	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238392

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8015B MGRO
Method Description.: TPH - Gasoline Range Organics (GRO)
Equipment Code....: INST1314
Batch.....: 155744
Analyst...: wre

MB	Method Blank		155743-002		07/22/2005	0632

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Gasoline Range Organics (GRO), Solid	ug/Kg	50.000	U						

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238392

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8015B MGRO
Method Description.: TPH - Gasoline Range Organics (GRO)
Equipment Code....: INST1314
Batch.....: 155744
Analyst...: wre

MS	Matrix Spike	G05G22DSA	238392-5	2.50000	07/22/2005	0742

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Gasoline Range Organics (GRO), Solid	ug/Kg	1363.605		3222.000	420.925	73	%	70-130	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238392

Report Date.: 07/29/2005

CUSTOMER: Keiron Environmental PROJECT: EQUISTAR CSI ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8015B MGRO
Method Description.: TPH - Gasoline Range Organics (GRO)
Equipment Code....: INST1314
Batch.....: 155744
Analyst...: wre

MSD	Matrix Spike Duplicate	G05G22DSA	238392-5	2.50000	07/22/2005	0818

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Gasoline Range Organics (GRO), Solid	ug/Kg	1490.934	1363.605	3222.000	420.925	83	%	70-130	
						13	R	30	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238392

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL9
Batch.....: 155639

Analyst...: ges

LCD	Laboratory Control Sample Duplicate	V05G26DSB	155638-020		07/26/2005	2011

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, Solid	ug/Kg	47.519	50.502	50.000	5.000 U	95	%	42-180	
						6	R	20	
Vinyl chloride, Solid	ug/Kg	47.838	49.576	50.000	5.000 U	96	%	49-144	
						4	R	20	
Bromomethane, Solid	ug/Kg	53.234	58.538	50.000	5.000 U	106	%	39-165	
						9	R	20	
Chloroethane, Solid	ug/Kg	62.064	63.888	50.000	5.000 U	124	%	56-145	
						3	R	20	
1,1-Dichloroethene, Solid	ug/Kg	35.074	36.211	50.000	5.000 U	70	%	47-141	
						3	R	20	
Carbon disulfide, Solid	ug/Kg	25.815	26.186	50.000	5.000 U	52	%	22-118	
						1	R	20	
Acetone, Solid	ug/Kg	38.427	47.302	50.000	5.000 U	77	%	50-176	
						21	R	20	*
Methylene chloride, Solid	ug/Kg	47.812	48.488	50.000	5.413	96	%	67-133	
						1	R	20	
1,1-Dichloroethane, Solid	ug/Kg	48.427	48.638	50.000	5.000 U	97	%	65-134	
						0	R	20	
2-Butanone (MEK), Solid	ug/Kg	38.290	43.320	50.000	5.000 U	77	%	41-166	
						12	R	30	
Chloroform, Solid	ug/Kg	50.805	51.400	50.000	5.000 U	102	%	73-135	
						1	R	20	
1,1,1-Trichloroethane, Solid	ug/Kg	47.794	48.275	50.000	5.000 U	96	%	71-137	
						1	R	20	
Carbon tetrachloride, Solid	ug/Kg	46.758	46.071	50.000	5.000 U	94	%	67-130	
						1	R	20	
1,2-Dichloroethene (total), Solid	ug/Kg	90.682	92.186	100.000	5.000 U	91	%	69-134	
						2	R	20	
Benzene, Solid	ug/Kg	47.205	46.560	50.000	5.000 U	94	%	72-125	
						1	R	20	
1,2-Dichloroethane, Solid	ug/Kg	49.521	49.908	50.000	5.000 U	99	%	72-134	
						1	R	20	
Trichloroethene, Solid	ug/Kg	45.900	45.836	50.000	5.000 U	92	%	74-124	
						0	R	20	
1,2-Dichloropropane, Solid	ug/Kg	50.461	49.628	50.000	5.000 U	101	%	76-124	
						2	R	20	
Bromodichloromethane, Solid	ug/Kg	53.066	52.603	50.000	5.000 U	106	%	82-131	
						1	R	20	
cis-1,3-Dichloropropene, Solid	ug/Kg	47.211	47.480	52.000	5.000 U	91	%	78-118	
						1	R	20	
4-Methyl-2-pentanone (MIBK), Solid	ug/Kg	51.207	51.773	50.000	5.000 U	102	%	57-144	
						1	R	20	
Toluene, Solid	ug/Kg	47.109	46.052	50.000	5.000 U	94	%	73-121	
						2	R	20	
trans-1,3-Dichloropropene, Solid	ug/Kg	43.505	44.668	48.000	5.000 U	91	%	77-127	
						3	R	20	
1,1,2-Trichloroethane, Solid	ug/Kg	49.322	50.676	50.000	5.000 U	99	%	79-133	
						3	R	20	
Tetrachloroethene, Solid	ug/Kg	43.410	43.375	50.000	5.000 U	87	%	69-123	
						0	R	20	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238392

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCD	Laboratory Control Sample Duplicate	V05G26DSB	155638-020		07/26/2005	2011

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value		QC Calc.	*	Limits	F
2-Hexanone, Solid	ug/Kg	43.927	47.689	50.000	5.000	U	88 8	% R	57-148 20	
Dibromochloromethane, Solid	ug/Kg	47.872	47.095	50.000	5.000	U	96 2	% R	78-125 20	
Chlorobenzene, Solid	ug/Kg	46.853	46.141	50.000	5.000	U	94 2	% R	77-115 20	
Ethylbenzene, Solid	ug/Kg	47.975	47.406	50.000	5.000	U	96 1	% R	73-121 20	
Styrene, Solid	ug/Kg	47.719	47.754	50.000	5.000	U	95 0	% R	76-124 20	
Bromoform, Solid	ug/Kg	45.020	45.054	50.000	5.000	U	90 0	% R	72-132 20	
1,1,2,2-Tetrachloroethane, Solid	ug/Kg	49.845	49.355	50.000	5.000	U	100 1	% R	73-125 20	
Xylenes (total), Solid	ug/Kg	142.582	140.600	150.000	5.000	U	95 1	% R	73-123 20	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238392

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	V05G26DSB	155638-019		07/26/2005	1059

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL9
Batch.....: 155639

Analyst...: ges

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, Solid	ug/Kg	50.502		50.000	5.000 U	101	%	42-180	
Vinyl chloride, Solid	ug/Kg	49.576		50.000	5.000 U	99	%	49-144	
Bromomethane, Solid	ug/Kg	58.538		50.000	5.000 U	117	%	39-165	
Chloroethane, Solid	ug/Kg	63.888		50.000	5.000 U	128	%	56-145	
1,1-Dichloroethene, Solid	ug/Kg	36.211		50.000	5.000 U	72	%	47-141	
Carbon disulfide, Solid	ug/Kg	26.186		50.000	5.000 U	52	%	22-118	
Acetone, Solid	ug/Kg	47.302		50.000	5.000 U	95	%	50-176	
Methylene chloride, Solid	ug/Kg	48.488		50.000	5.413	97	%	67-133	
1,1-Dichloroethane, Solid	ug/Kg	48.638		50.000	5.000 U	97	%	65-134	
2-Butanone (MEK), Solid	ug/Kg	43.320		50.000	5.000 U	87	%	41-166	
Chloroform, Solid	ug/Kg	51.400		50.000	5.000 U	103	%	73-135	
1,1,1-Trichloroethane, Solid	ug/Kg	48.275		50.000	5.000 U	97	%	71-137	
Carbon tetrachloride, Solid	ug/Kg	46.071		50.000	5.000 U	92	%	67-130	
1,2-Dichloroethene (total), Solid	ug/Kg	92.186		100.000	5.000 U	92	%	69-134	
Benzene, Solid	ug/Kg	46.560		50.000	5.000 U	93	%	72-125	
1,2-Dichloroethane, Solid	ug/Kg	49.908		50.000	5.000 U	100	%	72-134	
Trichloroethene, Solid	ug/Kg	45.836		50.000	5.000 U	92	%	74-124	
1,2-Dichloropropane, Solid	ug/Kg	49.628		50.000	5.000 U	99	%	76-124	
Bromodichloromethane, Solid	ug/Kg	52.603		50.000	5.000 U	105	%	82-131	
cis-1,3-Dichloropropene, Solid	ug/Kg	47.480		52.000	5.000 U	91	%	78-118	
4-Methyl-2-pentanone (MIBK), Solid	ug/Kg	51.773		50.000	5.000 U	104	%	57-144	
Toluene, Solid	ug/Kg	46.052		50.000	5.000 U	92	%	73-121	
trans-1,3-Dichloropropene, Solid	ug/Kg	44.668		48.000	5.000 U	93	%	77-127	
1,1,2-Trichloroethane, Solid	ug/Kg	50.676		50.000	5.000 U	101	%	79-133	
Tetrachloroethene, Solid	ug/Kg	43.375		50.000	5.000 U	87	%	69-123	
2-Hexanone, Solid	ug/Kg	47.689		50.000	5.000 U	95	%	57-148	
Dibromochloromethane, Solid	ug/Kg	47.095		50.000	5.000 U	94	%	78-125	
Chlorobenzene, Solid	ug/Kg	46.141		50.000	5.000 U	92	%	77-115	
Ethylbenzene, Solid	ug/Kg	47.406		50.000	5.000 U	95	%	73-121	
Styrene, Solid	ug/Kg	47.754		50.000	5.000 U	96	%	76-124	
Bromoform, Solid	ug/Kg	45.054		50.000	5.000 U	90	%	72-132	
1,1,2,2-Tetrachloroethane, Solid	ug/Kg	49.355		50.000	5.000 U	99	%	73-125	
Xylenes (total), Solid	ug/Kg	140.600		150.000	5.000 U	94	%	73-123	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238392

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL9
Batch.....: 155639

Analyst...: ges

MB	Method Blank		155638-018		07/26/2005	1031

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, Solid	ug/Kg	5.000	U							
Vinyl chloride, Solid	ug/Kg	5.000	U							
Bromomethane, Solid	ug/Kg	5.000	U							
Chloroethane, Solid	ug/Kg	5.000	U							
1,1-Dichloroethene, Solid	ug/Kg	5.000	U							
Carbon disulfide, Solid	ug/Kg	5.000	U							
Acetone, Solid	ug/Kg	5.000	U							
Methylene chloride, Solid	ug/Kg	5.413								B
1,1-Dichloroethane, Solid	ug/Kg	5.000	U							
2-Butanone (MEK), Solid	ug/Kg	5.000	U							
Chloroform, Solid	ug/Kg	5.000	U							
1,1,1-Trichloroethane, Solid	ug/Kg	5.000	U							
Carbon tetrachloride, Solid	ug/Kg	5.000	U							
1,2-Dichloroethene (total), Solid	ug/Kg	5.000	U							
Benzene, Solid	ug/Kg	5.000	U							
1,2-Dichloroethane, Solid	ug/Kg	5.000	U							
Trichloroethene, Solid	ug/Kg	5.000	U							
1,2-Dichloropropane, Solid	ug/Kg	5.000	U							
Bromodichloromethane, Solid	ug/Kg	5.000	U							
cis-1,3-Dichloropropene, Solid	ug/Kg	5.000	U							
4-Methyl-2-pentanone (MIBK), Solid	ug/Kg	5.000	U							
Toluene, Solid	ug/Kg	5.000	U							
trans-1,3-Dichloropropene, Solid	ug/Kg	5.000	U							
1,1,2-Trichloroethane, Solid	ug/Kg	5.000	U							
Tetrachloroethene, Solid	ug/Kg	5.000	U							
2-Hexanone, Solid	ug/Kg	5.000	U							
Dibromochloromethane, Solid	ug/Kg	5.000	U							
Chlorobenzene, Solid	ug/Kg	5.000	U							
Ethylbenzene, Solid	ug/Kg	5.000	U							
Styrene, Solid	ug/Kg	5.000	U							
Bromoform, Solid	ug/Kg	5.000	U							
1,1,2,2-Tetrachloroethane, Solid	ug/Kg	5.000	U							
Xylenes (total), Solid	ug/Kg	5.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238392

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL16
Batch.....: 155775

Analyst...: jdn

LCS	Laboratory Control Sample	V05G27DSB	155774-002		07/27/2005	1419

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	1785.850		2500.000	100.000	U 71	%	55-129	
Vinyl chloride, High/Med Level	ug/Kg	1716.295		2500.000	25.000	U 69	%	61-135	
Bromomethane, High/Med Level	ug/Kg	2549.045		2500.000	100.000	U 102	%	36-164	
Chloroethane, High/Med Level	ug/Kg	2811.895		2500.000	100.000	U 112	%	33-207	
1,1-Dichloroethene, High/Med Level	ug/Kg	2253.535		2500.000	50.000	U 90	%	44-143	
Carbon disulfide, High/Med Level	ug/Kg	1679.640		2500.000	100.000	U 67	%	21-124	
Acetone, High/Med Level	ug/Kg	1938.340		2500.000	200.000	U 78	%	34-143	
Methylene chloride, High/Med Level	ug/Kg	2823.675		2500.000	100.000	U 113	%	57-129	
1,1-Dichloroethane, High/Med Level	ug/Kg	2388.660		2500.000	50.000	U 96	%	68-119	
2-Butanone (MEK), High/Med Level	ug/Kg	1836.775		2500.000	100.000	U 73	%	40-125	
Chloroform, High/Med Level	ug/Kg	2498.780		2500.000	50.000	U 100	%	61-129	
1,1,1-Trichloroethane, High/Med Level	ug/Kg	2486.095		2500.000	50.000	U 99	%	69-133	
Carbon tetrachloride, High/Med Level	ug/Kg	2519.810		2500.000	50.000	U 101	%	59-127	
1,2-Dichloroethene (total), High/Med L	ug/Kg	4885.090		5000.000	50.000	U 98	%	60-139	
Benzene, High/Med Level	ug/Kg	2452.280		2500.000	25.000	U 98	%	67-122	
1,2-Dichloroethane, High/Med Level	ug/Kg	2366.360		2500.000	50.000	U 95	%	64-115	
Trichloroethene, High/Med Level	ug/Kg	2395.665		2500.000	25.000	U 96	%	70-123	
1,2-Dichloropropane, High/Med Level	ug/Kg	2329.095		2500.000	50.000	U 93	%	70-122	
Bromodichloromethane, High/Med Level	ug/Kg	2669.210		2500.000	100.000	U 107	%	66-128	
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	2430.365		2600.000	50.000	U 93	%	68-123	
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	2181.390		2500.000	100.000	U 87	%	54-119	
Toluene, High/Med Level	ug/Kg	2389.130		2500.000	25.000	U 96	%	72-123	
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	2104.470		2400.000	50.000	U 88	%	60-115	
1,1,2-Trichloroethane, High/Med Level	ug/Kg	2293.405		2500.000	50.000	U 92	%	67-133	
Tetrachloroethene, High/Med Level	ug/Kg	2330.580		2500.000	50.000	U 93	%	75-125	
2-Hexanone, High/Med Level	ug/Kg	1977.045		2500.000	100.000	U 79	%	50-116	
Dibromochloromethane, High/Med Level	ug/Kg	2627.565		2500.000	100.000	U 105	%	70-119	
Chlorobenzene, High/Med Level	ug/Kg	2395.070		2500.000	50.000	U 96	%	80-125	
Ethylbenzene, High/Med Level	ug/Kg	2442.480		2500.000	25.000	U 98	%	78-128	
Styrene, High/Med Level	ug/Kg	2525.965		2500.000	50.000	U 101	%	80-129	
Bromoform, High/Med Level	ug/Kg	2246.175		2500.000	100.000	U 90	%	70-123	
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	2228.700		2500.000	50.000	U 89	%	70-126	
Xylenes (total), High/Med Level	ug/Kg	7407.200		7500.000	50.000	U 99	%	77-131	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238392 Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B Equipment Code....: GCL16 Analyst...: jdn
Method Description.: Volatile Organics Batch.....: 155775

MB	Method Blank		155774-001		07/27/2005	1356

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	100.000	U							
Vinyl chloride, High/Med Level	ug/Kg	25.000	U							
Bromomethane, High/Med Level	ug/Kg	100.000	U							
Chloroethane, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethene, High/Med Level	ug/Kg	50.000	U							
Carbon disulfide, High/Med Level	ug/Kg	100.000	U							
Acetone, High/Med Level	ug/Kg	200.000	U							
Methylene chloride, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethane, High/Med Level	ug/Kg	50.000	U							
2-Butanone (MEK), High/Med Level	ug/Kg	100.000	U							
Chloroform, High/Med Level	ug/Kg	50.000	U							
1,1,1-Trichloroethane, High/Med Level	ug/Kg	50.000	U							
Carbon tetrachloride, High/Med Level	ug/Kg	50.000	U							
1,2-Dichloroethene (total), High/Med L	ug/Kg	50.000	U							
Benzene, High/Med Level	ug/Kg	25.000	U							
1,2-Dichloroethane, High/Med Level	ug/Kg	50.000	U							
Trichloroethene, High/Med Level	ug/Kg	25.000	U							
1,2-Dichloropropane, High/Med Level	ug/Kg	50.000	U							
Bromodichloromethane, High/Med Level	ug/Kg	100.000	U							
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	50.000	U							
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	100.000	U							
Toluene, High/Med Level	ug/Kg	25.000	U							
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	50.000	U							
1,1,2-Trichloroethane, High/Med Level	ug/Kg	50.000	U							
Tetrachloroethene, High/Med Level	ug/Kg	50.000	U							
2-Hexanone, High/Med Level	ug/Kg	100.000	U							
Dibromochloromethane, High/Med Level	ug/Kg	100.000	U							
Chlorobenzene, High/Med Level	ug/Kg	50.000	U							
Ethylbenzene, High/Med Level	ug/Kg	25.000	U							
Styrene, High/Med Level	ug/Kg	50.000	U							
Bromoform, High/Med Level	ug/Kg	100.000	U							
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	50.000	U							
Xylenes (total), High/Med Level	ug/Kg	50.000	U							

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238392

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL16
Batch.....: 155888

Analyst...: jdn

LCS	Laboratory Control Sample	V05G28DSB	155887-002		07/28/2005	0848

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Ethylbenzene, High/Med Level	ug/Kg	2522.320		2500.000	25.000 U	101	%	78-128	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238392

Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental PROJECT: EQUISTAR CSI ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL16
Batch.....: 155888

Analyst...: jdn

MB	Method Blank		155887-001		07/28/2005	0824

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Ethylbenzene, High/Med Level	ug/Kg	25.000 U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 238392 | Report Date.: 07/29/2005

CUSTOMER: Kelron Environmental | PROJECT: EQUISTAR CSI | ATTN: Stuart Cravens

Test Method.....: Method
Method Description.: % Solids Determination
Parameter.....: % Solids
Batch.....: 154772
Equipment Code....:
Analyst...: daj
Test Code.: %SOLID

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB	154772-001		%	0.1000 U								07/18/2005	1430
MD	238392-7		%	79.00000			77.70000	1.7		R	5.0	07/18/2005	1448

Test Method.....: D2974-87
Method Description.: Organic Matter
Parameter.....: % Solids
Batch.....: 154878
Equipment Code....:
Analyst...: daj
Test Code.: %SOLID

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MD	238392-7		%	79.00000			77.70000	1.7		R	20.0	07/18/2005	1448

Test Method.....: D2974-87
Method Description.: Organic Matter
Parameter.....: Organic Matter at 440 C
Batch.....: 154878
Equipment Code....:
Analyst...: daj
Test Code.: OM

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB	154772-001		%	0.10000 U								07/18/2005	1430
MD	238392-7		%	79.00000			77.70000	1.7		R	20.0	07/18/2005	1448

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
5) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

U Analyte was not detected at or above the stated limit.
< Not detected at or above the reporting limit.
J Result is less than the RL, but greater than or equal to the method detection limit.
B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
S Result was determined by the Method of Standard Additions.
F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

^ ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
* LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
+ MSA correlation coefficient is less than 0.995.
4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E SD: Serial dilution exceeds the control limits.
H MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
N MS, MSD: Spike recovery exceeds the upper or lower control limits.
W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

U Analyte was not detected at or above the stated limit.
ND Compound not detected.
J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
Q Result was qualitatively confirmed, but not quantified.
C Pesticide identification was confirmed by GC/MS.
Y The chromatographic response resembles a typical fuel pattern.
Z The chromatographic response does not resemble a typical fuel pattern.
E Result exceeded calibration range, secondary dilution required.
F AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

B MB: Batch QC is greater than reporting limit.
* LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
^ EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
A Concentration exceeds the instrument calibration range
a Concentration is below the method Reporting Limit (RL)
B Compound was found in the blank and sample.
D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
H Alternate peak selection upon analytical review
I Indicates the presence of an interfence, recovery is not calculated.
M Manually integrated compound.
P The lower of the two values is reported when the % difference between the results of two GC columns is

greater than 25%.

Abbreviations

AS	Post Digestion Spike (GFAA Samples - See Note 1 below)
Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column CCB Continuing Calibration Blank
CCV	Continuing Calibration Verification
CF	Confirmation analysis of original
C1	Confirmation analysis of A1 or D1
C2	Confirmation analysis of A2 or D2
C3	Confirmation analysis of A3 or D3
CRA	Low Level Standard Check - GFAA; Mercury
CRI	Low Level Standard Check - ICP
CV	Calilbration Verification Standard
Dil Fac	Dilution Factor - Secondary dilution analysis
D1	Dilution 1
D2	Dilution 2
D3	Dilution 3
DLFac	Detection Limit Factor
DSH	Distilled Standard - High Level
DSL	Distilled Standard - Low Level
DSM	Distilled Standard - Medium Level
EB1	Extraction Blank 1
EB2	Extraction Blank 2
EB3	DI Blank
ELC	Method Extracted LCS
ELD	Method Extracted LCD
ICAL	Initial calibration
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A - ICAP
ISB	Interference Check Sample B - ICAP
Job No.	The first six digits of the sample ID which refers to a specific client, project and sample group
	Lab ID An 8 number unique laboratory identification
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) Preparation Blank
MD	Method Duplicate
MDL	Method Detection Limit
MLE	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PREPF	Preparation factor used by the Laboratory's Information Management System (LIMS)
PDS	Post Digestion Spike (ICAP)
RA	Re-analysis of original
A1	Re-analysis of D1
A2	Re-analysis of D2
A3	Re-analysis of D3
RD	Re-extraction of dilution
RE	Re-extraction of original
RC	Re-extraction Confirmation
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor
RT	Retention Time

RTW	Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number
SCB	Seeded Control Blank
SD	Serial Dilution (Calculated when sample concentration exceeds 50 times the MDL)
UCB	Unseeded Control Blank
SSV	Second Source Verification Standard
SLCS	Solid Laboratory Control Standard(LCS)
PHC	pH Calibration Check LCSP pH Laboratory Control Sample
LCDP	pH Laboratory Control Sample Duplicate
MDPH	pH Sample Duplicate
MDFP	Flashpoint Sample Duplicate
LCFP	Flashpoint LCS
G1	Gelex Check Standard Range 0-1
G2	Gelex Check Standard Range 1-10
G3	Gelex Check Standard Range 10-100
G4	Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCS S=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)

Note 2: The MD calculates an absolute difference (A) when the sample concentration is less than 5 times the reporting limit. The control limit is represented as +/- the RL.

SEVERN TRENT **STL**

STL Chicago
2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Shaded Areas For Internal Use Only 1 of 2

Report To:
Contact: Stuart Cravens
Company: Kelron Environmental
Address: 1213 Dorchester Dr
Champaign, IL 61821-7031
Phone: 217-390-1503
Fax: 217-355-1385
E-Mail: kelron@egix.net

Bill To:
Contact: Harry R. Walton
Company:
Address: 3510 Brooks Drive
Decatur, IL 62236
Phone: 217-428-6782
Fax:
PO#: Quote:

Lab Lot# 238392

Package Sealed	Samples Sealed
Yes No	Yes No
Received on Ice	**Samples Intact**
Yes No	Yes No

Temperature °C of Cooler 2.7

Sampler Name: Stu Cravens
Signature:
Project Name: EQUISTAR CSI
Project Number: 30005633
Project Location: Tuscola, IL
Lab PM: Donna Ingersoll
Date Required Hard Copy: ___/___/___ Fax: ___/___/___

Within Hold Time: Yes No
Preserv. Indicated: Yes No NA
pH Check OK: Yes No NA
Res Cl_2 Check OK: Yes No NA
Sample Labels and COC Agree: Yes No COC not present

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	TPH (DRO & GRO)*	ORGANIC MATTER	VOCs	Additional Analyses / Remarks
1		MW17-05	7-11-05	1345	S	G	X	X		*DRO/ORO workshared to
2		MW19-03	7-12-05	0900	S	G	X	X		STL Valparaiso job
3		MW20-05	7-12-05	1120	S	G	X	X		238331. DLI 7/15/05
4		MW21-03	7-12-05	1520	S	G	X	X		
~~5~~		~~MW22-02~~	~~7-13-05~~	~~0950~~	~~S~~	~~G~~	~~X~~	~~X~~		
		~~MW24-07~~	~~7-13-05~~	~~1440~~	~~S~~	~~G~~	~~X~~	~~X~~		
5		MW28-03	7-14-05	1505	S	G	X	X		
6		MW28-07	7-14-05	1530	S	G	X	X		
7		ET3H-03	↓	1645	S	G			X	
8		ET3H-05	↓	1655	S	G			X	
9		ET3H-905	↓	1700	S	G			X	
10		ET35-04	↓	1750	S	G			X	

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
	Kelron Env.	7/15/05	1730	Donna Ingersoll	STL	7/15/05	1730
Donna Ingersoll	STL	7/15/05	1750		STL	7/16/05	0900

Matrix Key
WW = Wastewater
W = Water
S = Soil
SL = Sludge
MS = Miscellaneous
OL = Oil
A = Air
SE = Sediment
SO = Solid
DS = Drum Solid
DL = Drum Liquid
L = Leachate
WI = Wipe
O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other _____

Preservative Key
1. HCl, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS

Date Received 7/16/05
Courier: FX **Hand Delivered** ☐
Bill of Lading see attached

SEVERN TRENT **STL**

STL Chicago
2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Report To:
Contact: Stuart Cravens
Company: Kelron Environmental
Address: 1213 Dorchester Drive
Champaign, IL 61821-7031
Phone: 217-390-1503
Fax: 217-355-1385
E-Mail: kelron@ejxnet

Bill To:
Contact: Harry R. Hatton
Company:
Address: 2510 Brooks Drive
Decatur, IL 62236
Phone: 217-~~[illegible]~~ 428-6782
Fax:
PO#: Quote:

Shaded Areas For Internal Use Only 2 of 2

Lab Lot# 238312

Package Sealed	Samples Sealed
Yes No	Yes No
Received on Ice	**Samples Intact**
Yes No	Yes No

Temperature °C of Cooler

Sampler Name: Stu Cravens
Signature:
Project Name: EQUISTAR CSI
Project Number: 20005633
Project Location: Tuscola, IL
Lab PM: Donna Ingersoll
Date Required
Hard Copy: ___/___/___
Fax: ___/___/___

Within Hold Time	Preserv. Indicated
Yes No	Yes No NA
pH Check OK	**Res Cl_2 Check OK**
Yes No NA	Yes No NA

Sample Labels and COC Agree
Yes No COC not present

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	TPH (DRO, ORO, GRO)	Organic Matter	VOC's								Additional Analyses / Remarks
Refrg #																	
# / Cont.																	
Volume																	
Preserv																	
01		EJ35-10	7-14-05	1755	S	G			X								*DRO/ORO work shared to
02		MW31-04	7-15-05	1020	S	G	X	X									STL Valpo on jobs
																	238331 DCL 7/15/05

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
[signature]	Kelron Env.	7/15/05	1730	Donna Ingersoll	STL	7/15/05	1730
Donna Ingersoll	STL	7/15/05	1750	[signature]	STL	7/16/05	0900

Matrix Key
WW = Wastewater
W = Water
S = Soil
SL = Sludge
MS = Miscellaneous
OL = Oil
A = Air
SE = Sediment
SO = Solid
DS = Drum Solid
DL = Drum Liquid
L = Leachate
WI = Wipe
O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other _____

Preservative Key
1. HCl, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS

Date Received 7/16/05
Courier: FX **Hand Delivered** ☐
Bill of Lading see attached

SEVERN TRENT STL

STL Chicago
2417 Bond Street
University Park, IL 60466

Tel: 708 534 5200 Fax: 708 534 5211
www.stl-inc.com

SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 238331

Prepared For:

Kelron Environmental
1213 Dorchester Drive
Champaign, IL 61821-7031

Project: Equistar Well Installations

Attention: Stuart Cravens

Date: 08/10/2005

Signature

8/10/05
Date

Name: Donna L. Ingersoll

Title: Project Manager

E-Mail: dingersoll@stl-inc.com

STL Chicago
2417 Bond Street
University Park, IL 60466

PHONE: (708) 534-5200
FAX..: (708) 534-5211

This Report Contains (20) Pages

238331

SEVERN TRENT STL

ANALYTICAL REPORT

JOB NUMBER: 507978

Prepared For:

Severn Trent - University Park,Il
920 W. Pershing Road
Decatur, IL 62526

Project: EQUISTAR

Attention: Donna Ingersoll

Date: 07/28/2005

Katherine S Osborn
Signature

7-29-05
Date

Name: Katherine S. Osborn

Title: Project Manager

E-Mail: kosborn@stl-inc.com

Severn Trent Laboratories
2400 Cumberland Drive
Valparaiso, IN 46383

PHONE: 219-464-2389
FAX..: 219-462-2953

This Report Contains (20) Pages

SEVERN TRENT STL

July 29, 2005

Client:	**K Environmental**
Client Project Identification:	**Equistar**
STL Job Number:	**507978**

CASE NARRATIVE

On July 16, 2005, STL Valparaiso received nine samples. The samples were received in the laboratory within the laboratory's acceptable temperature range (4 deg C +/-2). The samples were analyzed for Diesel Range Organics (DRO)/ Oil Range Organics (ORO) by EPA method 8270B.

In the analysis for DRO/ORO the surrogate recoveries were not calculated for 507978-7 in batch 150493 due to sample dilution.

Katherine S Osborn

Katherine S. Osborn
Project Manager

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 07/28/2005

Job Number.: 507978
Customer...: Severn Trent - University Park,Il
Attn.....: Donna Ingersoll

Project Number.....: 96001545
Customer Project ID....: EQUISTAR
Project Description....: UST Removal

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
507978-1	MW17-05	Soil	07/11/2005	13:45	07/16/2005	09:55
507978-2	MW19-03	Soil	07/12/2005	09:00	07/16/2005	09:55
507978-3	MW20-05	Soil	07/12/2005	11:20	07/16/2005	09:55
507978-4	MW21-03	Soil	07/12/2005	15:20	07/16/2005	09:55
507978-5	MW28-03	Soil	07/14/2005	15:05	07/16/2005	09:55
507978-6	MW28-07	Soil	07/14/2005	15:30	07/16/2005	09:55
507978-7	MW22-02	Soil	07/13/2005	09:50	07/16/2005	09:55
507978-8	MW24-07	Soil	07/13/2005	14:40	07/16/2005	09:55
507978-9	MW31-04	Soil	07/15/2005	10:20	07/16/2005	09:55

SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 507978 Date: 07/28/2005

CUSTOMER: Severn Trent - University Park,Il PROJECT: EQUISTAR ATTN: Donna Ingersoll

Customer Sample ID: MW17-05
Date Sampled.....: 07/11/2005
Time Sampled.....: 13:45
Sample Matrix.....: Soil

Laboratory Sample ID: 507978-1
Date Received.....: 07/16/2005
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 160.3	% Moisture, Solid	20.4	1.0	%	07/19/05	hb
EPA 160.3	% Solids, Solid	79.6	1.0	%	07/19/05	hb
EPA 3550B	Sonication extraction for DRO					
	Ultrasonic Extraction	Complete			07/25/05	mme
EPA 8270B	Missouri DRO/ORO C10-C35					
	TPH Diesel Range Organics C10-C21, Solid*	ND	30	mg/Kg	07/27/05	mls
	TPH Oil Range Hydrocarbons C21-C35, Solid*	ND	30	mg/Kg	07/27/05	mls

* In Description = Dry Wgt.

SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 507978

Date: 07/28/2005

CUSTOMER: Severn Trent - University Park,Il PROJECT: EQUISTAR ATTN: Donna Ingersoll

Customer Sample ID: MW19-03
Date Sampled.....: 07/12/2005
Time Sampled.....: 09:00
Sample Matrix.....: Soil

Laboratory Sample ID: 507978-2
Date Received.....: 07/16/2005
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 160.3	% Moisture, Solid	20.0	1.0	%	07/19/05	hb
EPA 160.3	% Solids, Solid	80.0	1.0	%	07/19/05	hb
EPA 3550B	Sonication extraction for DRO					
	Ultrasonic Extraction	Complete			07/25/05	mme
EPA 8270B	Missouri DRO/ORO C10-C35					
	TPH Diesel Range Organics C10-C21, Solid*	ND	20	mg/Kg	07/27/05	mls
	TPH Oil Range Hydrocarbons C21-C35, Solid*	ND	20	mg/Kg	07/27/05	mls

* Description = Dry Wgt.

SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 507978 Date: 07/28/2005

CUSTOMER: Severn Trent - University Park,Il PROJECT: EQUISTAR ATTN: Donna Ingersoll

Customer Sample ID: MW20-05
Date Sampled.....: 07/12/2005
Time Sampled.....: 11:20
Sample Matrix.....: Soil

Laboratory Sample ID: 507978-3
Date Received.....: 07/16/2005
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 160.3	% Moisture, Solid	20.4	1.0	%	07/19/05	hb
EPA 160.3	% Solids, Solid	79.6	1.0	%	07/19/05	hb
EPA 3550B	Sonication extraction for DRO					
	Ultrasonic Extraction	Complete			07/25/05	mme
EPA 8270B	Missouri DRO/ORO C10-C35					
	TPH Diesel Range Organics C10-C21, Solid*	ND	30	mg/Kg	07/27/05	mls
	TPH Oil Range Hydrocarbons C21-C35, Solid*	ND	30	mg/Kg	07/27/05	mls

* In Description = Dry Wgt.

SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 507978 Date: 07/28/2005

CUSTOMER: Severn Trent - University Park,Il PROJECT: EQUISTAR ATTN: Donna Ingersoll

Customer Sample ID: MW21-03
Date Sampled.....: 07/12/2005
Time Sampled.....: 15:20
Sample Matrix.....: Soil

Laboratory Sample ID: 507978-4
Date Received.....: 07/16/2005
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 160.3	% Moisture, Solid	17.8	1.0	%	07/19/05	hb
EPA 160.3	% Solids, Solid	82.2	1.0	%	07/19/05	hb
EPA 3550B	Sonication extraction for DRO					
	Ultrasonic Extraction	Complete			07/25/05	mme
EPA 8270B	Missouri DRO/ORO C10-C35					
	TPH Diesel Range Organics C10-C21, Solid*	ND	20	mg/Kg	07/27/05	mls
	TPH Oil Range Hydrocarbons C21-C35, Solid*	ND	20	mg/Kg	07/27/05	mls

* Description = Dry Wgt.

SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 507978

Date: 07/28/2005

CUSTOMER: Severn Trent - University Park,Il PROJECT: EQUISTAR ATTN: Donna Ingersoll

Customer Sample ID: MW28-03
Date Sampled.....: 07/14/2005
Time Sampled.....: 15:05
Sample Matrix.....: Soil

Laboratory Sample ID: 507978-5
Date Received.....: 07/16/2005
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 160.3	% Moisture, Solid	23.7	1.0	%	07/19/05	hb
EPA 160.3	% Solids, Solid	76.3	1.0	%	07/19/05	hb
EPA 3550B	Sonication extraction for DRO					
	Ultrasonic Extraction	Complete			07/25/05	mme
EPA 8270B	Missouri DRO/ORO C10-C35					
	TPH Diesel Range Organics C10-C21, Solid*	ND	30	mg/Kg	07/27/05	mls
	TPH Oil Range Hydrocarbons C21-C35, Solid*	ND	30	mg/Kg	07/27/05	mls

* In Description = Dry Wgt.

SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 507978 Date: 07/28/2005

CUSTOMER: Severn Trent - University Park,Il PROJECT: EQUISTAR ATTN: Donna Ingersoll

Customer Sample ID: MW28-07
Date Sampled.....: 07/14/2005
Time Sampled.....: 15:30
Sample Matrix.....: Soil

Laboratory Sample ID: 507978-6
Date Received.....: 07/16/2005
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 160.3	% Moisture, Solid	21.0	1.0	%	07/19/05	hb
EPA 160.3	% Solids, Solid	79.0	1.0	%	07/19/05	hb
EPA 3550B	Sonication extraction for DRO					
	Ultrasonic Extraction	Complete			07/25/05	mme
EPA 8270B	Missouri DRO/ORO C10-C35					
	TPH Diesel Range Organics C10-C21, Solid*	ND	30	mg/Kg	07/27/05	mls
	TPH Oil Range Hydrocarbons C21-C35, Solid*	ND	30	mg/Kg	07/27/05	mls

* Description = Dry Wgt.

SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 507978 Date: 07/28/2005

CUSTOMER: Severn Trent - University Park,Il PROJECT: EQUISTAR ATTN: Donna Ingersoll

Customer Sample ID: MW22-02
Date Sampled.....: 07/13/2005
Time Sampled.....: 09:50
Sample Matrix.....: Soil

Laboratory Sample ID: 507978-7
Date Received.....: 07/16/2005
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 160.3	% Moisture, Solid	18.7	1.0	%	07/19/05	hb
EPA 160.3	% Solids, Solid	81.3	1.0	%	07/19/05	hb
EPA 3550B	Sonication extraction for DRO					
	Ultrasonic Extraction	Complete			07/25/05	mme
EPA 8270B	Missouri DRO/ORO C10-C35					
	TPH Diesel Range Organics C10-C21, Solid*	500	200	mg/Kg	07/28/05	mls
	TPH Oil Range Hydrocarbons C21-C35, Solid*	60	20	mg/Kg	07/27/05	mls

* In Description = Dry Wgt.

SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 507978

Date: 07/28/2005

CUSTOMER: Severn Trent - University Park,Il PROJECT: EQUISTAR ATTN: Donna Ingersoll

Customer Sample ID: MW24-07
Date Sampled.....: 07/13/2005
Time Sampled.....: 14:40
Sample Matrix.....: Soil

Laboratory Sample ID: 507978-8
Date Received.....: 07/16/2005
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 160.3	% Moisture, Solid	22.5	1.0	%	07/19/05	hb
EPA 160.3	% Solids, Solid	77.5	1.0	%	07/19/05	hb
EPA 3550B	Sonication extraction for DRO					
	Ultrasonic Extraction	Complete			07/25/05	mme
EPA 8270B	Missouri DRO/ORO C10-C35					
	TPH Diesel Range Organics C10-C21, Solid*	ND	30	mg/Kg	07/27/05	mls
	TPH Oil Range Hydrocarbons C21-C35, Solid*	ND	30	mg/Kg	07/27/05	mls

* Description = Dry Wgt.

SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 507978 Date: 07/28/2005

CUSTOMER: Severn Trent - University Park,Il PROJECT: EQUISTAR ATTN: Donna Ingersoll

Customer Sample ID: MW31-04
Date Sampled.....: 07/15/2005
Time Sampled.....: 10:20
Sample Matrix.....: Soil

Laboratory Sample ID: 507978-9
Date Received.....: 07/16/2005
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 160.3	% Moisture, Solid	17.4	1.0	%	07/19/05	hb
EPA 160.3	% Solids, Solid	82.6	1.0	%	07/19/05	hb
EPA 3550B	Sonication extraction for DRO					
	Ultrasonic Extraction	Complete			07/25/05	mme
EPA 8270B	Missouri DRO/ORO C10-C35					
	TPH Diesel Range Organics C10-C21, Solid*	ND	20	mg/Kg	07/27/05	mls
	TPH Oil Range Hydrocarbons C21-C35, Solid*	ND	20	mg/Kg	07/27/05	mls

* In Description = Dry Wgt.

SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 507978 Report Date.: 07/28/2005

CUSTOMER: Severn Trent - University Park,Il PROJECT: EQUISTAR ATTN: Donna Ingersoll

Test Method.....: EPA 160.3 Batch.....: 150012 Analyst...: hb
Method Description.: Solids, Total (TS) Units.....: % Test Code.: %MOIST
Parameter.....: % Moisture

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MD	507954-3		11.39			11.95	4.8	R	20	07/19/2005	1551
MB	718-1	07/18/05	99.98							07/19/2005	1600

Test Method.....: EPA 160.3 Batch.....: 150012 Analyst...: hb
Method Description.: Solids, Total (TS) Units.....: % Test Code.: %SOLID
Parameter.....: % Solids

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MD	507954-3		88.61			88.05	0.6	R	20	07/19/2005	1551
MB	718-1	07/18/05	0.02							07/19/2005	1600

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 507978

Report Date.: 07/28/2005

CUSTOMER: Severn Trent - University Park,Il PROJECT: EQUISTAR ATTN: Donna Ingersoll

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: EPA 8270B
Method Description.: Missouri DRO/ORO C10-C35

Units.....: mg/L
Batch.....: 150493

Analyst...: mls

LCD	Laboratory Control Sample Duplicate	V348774A			07/27/2005	1912

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
TPH Diesel Range Organics C10-C21, Soli	861.82	710.09	1000.000000		86.2	%	55-140
					19.3	R	20

LCS	Laboratory Control Sample	V348774A			07/27/2005	1841

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
TPH Diesel Range Organics C10-C21, Soli	710.09		1000.000000		71.0	%	55-140

MB	Method Blank				07/27/2005	1809

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
TPH Diesel Range Organics C10-C21, Soli	3.408						
TPH Oil Range Hydrocarbons C21-C35, Soli	1.463						

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

SEVERN TRENT STL

SURROGATE RECOVERIES REPORT

Job Number.: 507978 Report Date.: 07/28/2005

CUSTOMER: Severn Trent - University Park,Il PROJECT: EQUISTAR ATTN: Donna Ingersoll

Method.....: Missouri DRO/ORO C10-C35 Method Code.....: DRO-MS
Batch.....: 150493 Analyst.....: mls Equipment Code:

Surrogate	Units
2-Fluorobiphenyl	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB		34.61	50.0	69.2	30-115		07/27/2005	1809
	Solid	LCS		35.47	50.0	70.9	30-115		07/27/2005	1841
	Solid	LCD		39.70	50.0	79.4	30-115		07/27/2005	1912
507978-1	Solid			18.33	50.0	36.7	30-115		07/27/2005	1943
507978-2	Solid			45.91	50.0	91.8	30-115		07/27/2005	2014
507978-3	Solid			46.28	50.0	92.6	30-115		07/27/2005	2045
507978-4	Solid			40.08	50.0	80.2	30-115		07/27/2005	2117
507978-5	Solid			30.34	50.0	60.7	30-115		07/27/2005	2148
507978-6	Solid			24.34	50.0	48.7	30-115		07/27/2005	2219
507978-7	Solid			36.59	50.0	73.2	30-115		07/27/2005	2251
507978-8	Solid			28.49	50.0	57.0	30-115		07/27/2005	2322
507978-9	Solid			28.49	50.0	57.0	30-115		07/27/2005	2354
507978-7	Solid		10	0.00	50.0	0.0	30-115	D	07/28/2005	1010

Surrogate	Units
Nitrobenzene-d5	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB		30.48	50.0	61.0	23-120		07/27/2005	1809
	Solid	LCS		30.65	50.0	61.3	23-120		07/27/2005	1841
	Solid	LCD		41.60	50.0	83.2	23-120		07/27/2005	1912
507978-1	Solid			16.88	50.0	33.8	23-120		07/27/2005	1943
507978-2	Solid			42.25	50.0	84.5	23-120		07/27/2005	2014
507978-3	Solid			43.03	50.0	86.1	23-120		07/27/2005	2045
507978-4	Solid			36.29	50.0	72.6	23-120		07/27/2005	2117
507978-5	Solid			28.25	50.0	56.5	23-120		07/27/2005	2148
507978-6	Solid			22.55	50.0	45.1	23-120		07/27/2005	2219
507978-7	Solid			39.05	50.0	78.1	23-120		07/27/2005	2251
507978-8	Solid			23.61	50.0	47.2	23-120		07/27/2005	2322
507978-9	Solid			23.61	50.0	47.2	23-120		07/27/2005	2354
507978-7	Solid		10	0.00	50.0	0.0	23-120	D	07/28/2005	1010

SEVERN TRENT STL

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 07/28/2005

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Soil, sediment and sludge sample results are reported on an "as received" basis unless noted differently.
3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
4) Methods of chemical analysis have a statistical uncertainty associated with the resuslts. Unless otherwise indicated, reported data is within the limits of uncertainty as specified in the referenced method. QC acceptance criteria are based on either actual laboratory performace or limits specified in the method.
5) The date and time of analysis indicated on the QA report may not reflect the actual time of analysis of QC for QC samples.
6) Data results in the QA report may be lower than sample data due to dilution of samples into the calibration range or the analysis.
7) Unless otherwise indicated, volatiles by gas chromatography (GC) are reported from a single column. Volatile analysis by GC on low level soil extractions are conducted at room temperature.
8) According to 40 CFR Part 136.3, pH, Chlorine Residual, and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

FLAGS, FOOTNOTES, AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed	ND	=	Not detected at a value > Reporting Limit
N/A	=	Not Applicable	NC	=	Not calculatable due to values < Reporting Limit
ug/L	=	Micrograms per Liter	mg/L	=	Milligrams per Liter
ug/Kg	=	Micrograms per Kilogram	mg/Kg	=	Milligrams per Kilogram
U	=	Undetected			
J	=	Value is > MDL, but < Reporting Limit			
B	=	Analyte was detected in the method blank analyzed with this sample			
D	=	Surrogate recoveries are not calculated due to sample dilution			
X	=	Surrogate recovery is outside quality control limits			
Y	=	Spike or spike duplicate recovery is outside quality control limits			
Z	=	Relative percent difference for spike and spike duplicate is outside quality control limits, and precision of the method was impacted by sample matrix			
^	=	Value is above QC acceptance criteria			

QC SAMPLE INDENTIFICATIONS

EB	=	Extraction Blank	CCB	=	Continuing Calibration Blank
MB	=	Method Blank	CCV	=	Continuing Calibration Verification
PB	=	Preparation Blank	ICB	=	Initial Calibration Blank
MD	=	Method Duplicate	ICV	=	Initial Calibration Verification
MS	=	Matrix Spike	RPD	=	Relative Percent Difference
MSD	=	Matrix Spike Duplicate	MSA	=	Method of Standard Additions
PDS	=	Post Digestion Spike	ISB	=	Interference Check Standard "B"
EBS	=	Extraction Blank Standard	LCT	=	TCLP Laboratory Control Standard
LCS	=	Laboratory Control Standard	MST	=	TCLP Matrix Spike
LCSD	=	Laboratory Control Standard Duplicate	MSQ	=	TCLP Matrix Spike Duplicate
CAL	=	Calibration Standard	PST	=	TCLP Post Digestion Spike
CALB	=	Calibration Blank	SD	=	Serial Dilution

METHOD REFERENCES

1) EPA SW-846, Test Methods for Evaluating Solid Waste Update I, IIA, IIB, III
2) Standard Methods for the Examination of Water and Wastewater, 18th Edition
3) EPA 600/4-79-020, Methods of Chemical Analysis for Waters and Wastes, March 1983
4) Federal Register, Friday, October 26, 1984 (40 CFR Part 136)
5) American Society for Testing and Materials, Volumes 5.01, 5.02, 5.03, 11.01, 11.02, 11.03, 11.04
6) EPA Methods for Environmental Samples

Job Number.: 507978 Location.: 57211 Check List Number.: 1 Description.:
Customer Job ID.....: Job Check List Date.: Date of the Report..: 07/16/2005
Project Number.: 96001545 Project Description.: UST Removal Project Manager.....: kso
Customer.....: Severn Trent - University Park,Il Contact.: Donna Ingersoll

Questions ?	(Y/N)	Comments
Chain-of-Custody Present?.....	Y	
Custody seal on shipping container?.....	N	
...If "yes", custody seal intact?.....		
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples chilled?.....	Y	on ice
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	3.4 degrees c ir
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....		n/a
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Additional.....		
Comments.....		
Sample Custodian Signature.....		

SEVERN TRENT **STL**

STL Chicago
2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Report To:
Contact: Stuart Crovens
Company: Kelrun Environmental
Address: 1213 Dorchester Dr
Champaign, IL 61821-7031
Phone: 217-390-1503
Fax: 217-355-1385
E-Mail: kelrun@egix.net

Bill To:
Contact: Harry R. Hatton
Company:
Address: 2510 Brooks Drive
Decatur, IL 62236
Phone: 217-428-6782
Fax:
PO#: Quote:

Shaded Areas For Internal Use Only 1 of 2

Lab Lot#

Package Sealed	Samples Sealed
Yes No	Yes No
Received on Ice	**Samples Intact**
Yes No	Yes No

Temperature °C of Cooler 3.4°C

Within Hold Time	Preserv. Indicated
Yes No	Yes No NA
pH Check OK	**Res Cl_2 Check OK**
Yes No NA	Yes No NA

Sample Labels and COC Agree
Yes No COC not present

Sampler Name: Stu Crovens
Signature:
Project Name: EQUISTAR CSI
Project Number: 20005633
Project Location: TUSCOLA, IL
Lab PM: Donna Ingersoll
Date Required
Hard Copy: ___/___/___
Fax: ___/___/___

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	TPH (DRO,* GRO, ORO)	ORGANIC MATTER	VOCs								Additional Analyses / Remarks
Refrg #																	
# / Cont.																	
Volume																	
Preserv.																	
507978-1		MW17-05	7-11-05	1345	S	G	X	X									*DRO/ORO work shared to STL Valparaiso job 238331. DLI 7/15/05
-2		MW19-03	7-12-05	0900	S	G	X	X									
-3		MW20-05	7-12-05	1120	S	G	X	X									
-4		MW21-03	7-12-05	1520	S	G	X	X									
		~~MW22-02~~	~~7-13-05~~	~~0950~~	~~S~~	~~G~~	~~X~~	~~X~~									
		~~MW24-07~~	~~7-13-05~~	~~1440~~	~~S~~	~~G~~	~~X~~	~~X~~									
-5		MW28-03	7-14-05	1505	S	G	X	X									
-6		MW28-07	7-14-05	1530	S	G	X	X									
		ET34-03		1645	S	G			X								
		ET34-05		1655	S	G			X								
		ET34-905		1700	S	G			X								
		ET35-04		1750	S	G			X								

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
[signature]	Kelrun Env.	7/15/05	1730	Donna Ingersoll	STL	7/15/05	1730
Donna Ingersoll	STL	7/15/05	1750	[signature]	STL	7/16/05	9:55

Matrix Key
WW = Wastewater
W = Water
S = Soil
SL = Sludge
MS = Miscellaneous
OL = Oil
A = Air
SE = Sediment
SO = Solid
DS = Drum Solid
DL = Drum Liquid
L = Leachate
WI = Wipe
O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other _____

Preservative Key
1. HCl, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS

Date Received / /
Courier: **Hand Delivered** ☐
Bill of Lading

SEVERN TRENT **STL**

STL Chicago
2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Report To:
Contact: Stuart Cravens
Company: Kelron Environmental
Address: 1213 Dorchester Dr
Champaign, IL 61821-7031
Phone: 217-340-1503
Fax: 217-355-1385
E-Mail: kelron@egix.net

Bill To:
Contact: Harry A. Walton
Company:
Address: 2510 Brooks Drive
Decatur, IL 62236
Phone: 217-428-6782
Fax:
PO#: Quote:

Shaded Areas For Internal Use Only 1 of 2

Lab Lot#

Package Sealed	Samples Sealed
Yes No	Yes No
Received on Ice	**Samples Intact**
Yes No	Yes No

Temperature °C of Cooler 3.4°C

Within Hold Time	Preserv. Indicated
Yes No	Yes No NA
pH Check OK	**Res Cl_2 Check OK**
Yes No NA	Yes No NA

Sample Labels and COC Agree
Yes No COC not present

Sampler Name: Stu Cravens
Signature:
Project Name: EQUISTAR CSI
Project Number: 20005633
Project Location: Tuscola, IL
Date Required Hard Copy: __/__/__ Fax: __/__/__
Lab PM: Donna Ingersoll

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	TPH (DRO, GRO, ORO)	Organic Matter	VOCs	SVOCs							Additional Analyses / Remarks
		MW17-05	7-11-05	1345	S	G	X	X									
		MW19-03	7-12-05	0900	S	G	X	X									
		MW20-05	7-12-05	1120	S	G	X	X									
		MW21-03	7-12-05	1520	S	G	X	X									
501978-7		MW22-02	7-13-05	0950	S	G	X*	X									
↓ -8		MW24-07	7-13-05	1440	S	G	X*	X									
		CL22-03		1720	S	G			X								
		CL22-08		1733	S	G			X								
		CL21-03		1750	S	G			X								
		CL21-903		1755	S	G			X								
		CL21-08		1818	S	G			X								
		CL20-03		1830	S	G			X								

Coolers did not include these samples DLI 7/14/05

* DRO/ORO work shared to STL Valparaiso on job 238331 DLD 7/15/05

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
	Kelron Env	7-14-05	1413	Donna Ingersoll	STL	7/14/05	14:13
Donna Ingersoll	STL	7/15/05	15:10	Deb Black	STL	7/16/05	9:55

Matrix Key
WW = Wastewater
W = Water
S = Soil
SL = Sludge
MS = Miscellaneous
OL = Oil
A = Air
SE = Sediment
SO = Solid
DS = Drum Solid
DL = Drum Liquid
L = Leachate
WI = Wipe
O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other _____

Preservative Key
1. HCl, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS

Date Received / /
Courier: **Hand Delivered** ☐
Bill of Lading

SEVERN TRENT **STL**

STL Chicago
2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Report To:
Contact: Stuart Cravens
Company: Kelma Environmental
Address: 1213 Dorchester Drive
Champaign, IL 61821-7031
Phone: 217-390-1503
Fax: 217-355-1385
E-Mail: kelma@egixinet

Bill To:
Contact: Harry R. Kelton
Company:
Address: 2510 Brooks Drive
Decatur, IL 62236
Phone: 217-~~488~~ 428-6782
Fax:
PO#: Quote:

Shaded Areas For Internal Use Only 1 of 1

Lab Lot#

Package Sealed	Samples Sealed
Yes No	Yes No
Received on Ice	**Samples Intact**
Yes No	Yes No

Temperature °C of Cooler 3.4°C

Within Hold Time	Preserv. Indicated
Yes No	Yes No NA
pH Check OK	**Res Cl_2 Check OK**
Yes No NA	Yes No NA

Sample Labels and COC Agree
Yes No COC not present

Sampler Name: Stu Cravens
Signature:
Project Name: EQUISTAR CSI
Project Number: 20005633
Project Location: Tuscola, IL
Date Required
Hard Copy: __/__/__
Fax: __/__/__
Lab PM: Donna Ingersoll

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	TPH (DRO, ORO, GRO)	Organic Matter	VOC's								Additional Analyses / Remarks
		ET35-10	7-14-05	1755	S	G			X								*DRO/ORO work shipped to
507978-9		MW31-04	7-15-05	1020	S	G	X	X									STL Valpo on COC
																	238331 DCL 7/15/05

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
	Kelma Env.	7/15/05	1730	Donna Ingersoll	STL	7/15/05	1730
Donna Ingersoll	STL	7/15/05	1750		STL	7/16/05	9:55

Matrix Key
WW = Wastewater
W = Water
S = Soil
SL = Sludge
MS = Miscellaneous
OL = Oil
A = Air
SE = Sediment
SO = Solid
DS = Drum Solid
DL = Drum Liquid
L = Leachate
WI = Wipe
O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other _____

Preservative Key
1. HCl, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS

Date Received / /
Courier: **Hand Delivered** ☐
Bill of Lading

Appendix C

Well Development and Sampling Sheets

Kelron Environmental

Well Number MW-17

☒ Development
☐ Purging

WELL DEVELOPMENT AND PURGING DATA

Serial No. WDPD-

Page ____ of ____

Project Name 2005 Comprehensive Site Investigation

Project Manager Harry Walton

Project No. 2001.090

Client Company Equistar Chemicals, LP

Phase.Task No. 00.00

Site Name Main Process Area, Tuscola Plant

Site Address Tuscola, Illinois

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other ____

Methods of Development

Pump	Bailer
☐ Centrifugal	☐ Bottom Valve
☐ Submersible	☐ Double Check Valve
☐ Peristaltic	☐ Stainless-steel Kemmerer

☐ Other ____

Water Volume Calculation

Initial Depth of Well (feet) ____
Initial Depth to Water (feet) ____
Height of Water Column in Well (feet) ____
Diameter (inches): Well ____ Gravel Pack ____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Instruments

	Serial No. (If applicable)
☐ pH Meter	
☐ DO Monitor	
☐ Conductivity Meter	
☐ Temperature Meter	
☐ Other ____	

Water Disposal

____

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Product Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
7/14/05	1050		X												Dry
7/19/05	820		↓			17.52									

Circle the date and time that the development criteria are met.

Comments ____

Developer's Signature(s) Tracey Michael Date 7/14/05 Reviewer ____ Date ____

Form A0101 Rev. 10/6/94

Kelron Environmental

Kelron Environmental

Well Number MW-18

Serial No. WDPD-

☒ Development
☐ Purging

WELL DEVELOPMENT AND PURGING DATA

Project Name 2005 Comprehensive Site Investigation

Project Manager Harry Walton

Project No. 2001.090

Client Company Equistar Chemicals, LP

Phase.Task No. 00.00

Site Name Main Process Area, Tuscola Plant

Site Address Tuscola, Illinois

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other

Methods of Development

Pump	Bailer
☐ Centrifugal	☐ Bottom Valve
☐ Submersible	☐ Double Check Valve
☐ Peristaltic	☐ Stainless-steel Kemmerer

☐ Other

Water Volume Calculation

Initial Depth of Well (feet) 17.60
Initial Depth to Water (feet) 16.48
Height of Water Column in Well (feet) 1.12
Diameter (inches): Well ____ Gravel Pack ____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Instruments

	Serial No. (If applicable)
☐ pH Meter	
☐ DO Monitor	
☐ Conductivity Meter	
☐ Temperature Meter	
☐ Other	

Water Disposal

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Product Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
7/14/05	1105		X			~~16.48~~									Dry
7/19/05	905		✓			16.48	.17								

Circle the date and time that the development criteria are met.

Comments

Developer's Signature(s) Tracy Michael Date 7/14/05 Reviewer ____ Date ____

Kelron Environmental

Well Number MW-19

Serial No. WDPD-

☒ Development
☐ Purging

WELL DEVELOPMENT AND PURGING DATA

Page ____ of ____

Project Name 2005 Comprehensive Site Investigation

Project Manager Harry Walton

Project No. 2001.090

Client Company Equistar Chemicals, LP

Phase.Task No. 00.00

Site Name Main Process Area, Tuscola Plant

Site Address Tuscola, Illinois

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other ____

Methods of Development

Pump	Bailer
☐ Centrifugal	☒ Bottom Valve
☐ Submersible	☐ Double Check Valve
☐ Peristaltic	☐ Stainless-steel Kemmerer

☐ Other ____

Water Volume Calculation

Initial Depth of Well (feet) ~~5.04~~ 22.56
Initial Depth to Water (feet) 5.04
Height of Water Column in Well (feet) 17.52
Diameter (inches): Well ____ Gravel Pack ____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Instruments

	Serial No. (If applicable)
☐ pH Meter	
☐ DO Monitor	
☐ Conductivity Meter	
☐ Temperature Meter	
☒ Other YSI 63/50	

Water Disposal

____

Water Removal Data

Date	Time	Development Method: Pump	Development Method: Bailer	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons): Increment	Water Volume Removed (gallons): Cumulative	Product Volume Removed (gallons): Increment	Product Volume Removed (gallons): Cumulative	Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
7/14/05	1125		X			~~9.14~~	~~2.80 gal~~				29.7	7.13	0		
	1135		↓			9.14	2.80	2.80			22.0	7.57	0		
	1149					13.62	3.00	5.80			19.9	7.41	0		
	1203					16.62	2.50	8.30			19.9	7.11	0		

Circle the date and time that the development criteria are met.

Comments 1 well vol = 2.80

Developer's Signature(s) Tracy Michael Date 7/14/05 Reviewer ____ Date ____

Form A0101 Rev. 10/6/94

Kelron Environmental

Kelron Environmental

Well Number MW-20

Serial No. WDPD-

☒ Development
☐ Purging

WELL DEVELOPMENT AND PURGING DATA

Page ____ of ____

Project Name 2005 Comprehensive Site Investigation

Project Manager Harry Walton

Project No. 2001.090

Client Company Equistar Chemicals, LP

Phase.Task No. 00.00

Site Name Main Process Area, Tuscola Plant

Site Address Tuscola, Illinois

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other ____

Methods of Development

Pump	Bailer
☐ Centrifugal	☒ Bottom Valve
☐ Submersible	☐ Double Check Valve
☐ Peristaltic	☐ Stainless-steel Kemmerer

☐ Other ____

Water Volume Calculation

Initial Depth of Well (feet) 22.72
Initial Depth to Water (feet) 6.94
Height of Water Column in Well (feet) 15.78
Diameter (inches): Well ____ Gravel Pack ____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Instruments

	Serial No. (If applicable)
☐ pH Meter	
☐ DO Monitor	
☐ Conductivity Meter	
☐ Temperature Meter	
☒ Other YSI	

Water Disposal

Drum

Water Removal Data

Date	Time	Development Method: Pump	Development Method: Bailer	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons): Increment	Water Volume Removed (gallons): Cumulative	Product Volume Removed (gallons): Increment	Product Volume Removed (gallons): Cumulative	Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
7/14/05	1355		X			6.94	2.5				20.5	7.08	NS 903		
	1405		↓			7.76	2.7				19.8	6.92	831		
	1420					9.51	3.00	8.2			20.8	7.08	919		
	1430					11.30	2.5	10.7			20.8	7.03	834		

Circle the date and time that the development criteria are met.

Comments 1 well volume = 2.53 gal.
Dark brown silty water, no odor, no sheen

Developer's Signature(s) Tracy Michael

Date 7/14/05

Reviewer ____ Date ____

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Kelron Environmental

Kelron Environmental

Well Number MW21

Serial No. WDPD-

☒ Development
☐ Purging

WELL DEVELOPMENT AND PURGING DATA

Page ____ of ____

Project Name 2005 Comprehensive Site Investigation

Project Manager Harry Walton

Project No. 2001.090

Client Company Equistar Chemicals, LP

Phase.Task No. 00.00

Site Name Main Process Area, Tuscola Plant

Site Address Tuscola, Illinois

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other ____

Methods of Development

Pump	Bailer
☐ Centrifugal	☒ Bottom Valve
☐ Submersible	☐ Double Check Valve
☐ Peristaltic	☐ Stainless-steel Kemmerer

☐ Other ____

Water Volume Calculation

Initial Depth of Well (feet) 17.60
Initial Depth to Water (feet) 7.01
Height of Water Column in Well (feet) 10.59
Diameter (inches): Well ____ Gravel Pack ____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Instruments

	Serial No. (If applicable)
☐ pH Meter	
☐ DO Monitor	
☐ Conductivity Meter	
☐ Temperature Meter	
☒ Other YSI	

Water Disposal

____

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Product Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
7/14/05	1450		X			7.53	1.8				20.9	7.10	760		
	1500		↓			8.02	2.0				19.7	6.92	769		
	1505		↓			8.50	1.5	5.3			20.5	7.03	777		

Circle the date and time that the development criteria are met.

Comments 1 Well vol. = 1.69 gal. 6 gal med. yellowish brown water

Developer's Signature(s) Tracy Michael Date 7/14/05 Reviewer ____ Date ____

Form A0101 Rev. 10/6/94

Kelron Environmental

Kelron Environmental

Well Number MW-22

Serial No. WDPD-

☒ Development
☐ Purging

WELL DEVELOPMENT AND PURGING DATA

Page ____ of ____

Project Name 2005 Comprehensive Site Investigation

Project Manager Harry Walton

Project No. 2001.090

Client Company Equistar Chemicals, LP

Phase.Task No. 00.00

Site Name Main Process Area, Tuscola Plant

Site Address Tuscola, Illinois

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other ____

Methods of Development

Pump
☐ Centrifugal
☐ Submersible
☐ Peristaltic

Bailer
☒ Bottom Valve
☐ Double Check Valve
☐ Stainless-steel Kemmerer

☐ Other ____

Water Volume Calculation

Initial Depth of Well (feet) 16.62
Initial Depth to Water (feet) 5.80
Height of Water Column in Well (feet) 10.82
Diameter (inches): Well ____ Gravel Pack ____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Instruments

	Serial No. (If applicable)
☐ pH Meter	
☐ DO Monitor	
☐ Conductivity Meter	
☐ Temperature Meter	
☒ Other YSI	

Water Disposal

____

Water Removal Data

Date	Time	Development Method: Pump	Development Method: Bailer	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons): Increment	Water Volume Removed (gallons): Cumulative	Product Volume Removed (gallons): Increment	Product Volume Removed (gallons): Cumulative	Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
7/14/05	1550		X			7.	1.75				22.7	6.90	1138		
	1558		↑			7.39	1.50				21.1	6.88	1076		
	1606					7.50	2.00				21.5	6.84	1081		
	1615		↓			7.52	↓	7.25	~~2~~	~~2~~ 5	21.9	6.86	1052		

Circle the date and time that the development criteria are met.

Comments 1 Well Volume = 1.73 gal.; Water very silty, quick recharge, sl. odor

Developer's Signature(s) Tracy Michael Date 7/14/05 Reviewer ____ Date ____

Form ... Rev. 10/6/94

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Kelron Environmental

Well Number MW-23

Serial No. WDPD-

☒ Development
☒ Purging

WELL DEVELOPMENT AND PURGING DATA

Page ____ of ____

Project Name 2005 Comprehensive Site Investigation

Project Manager Harry Walton

Project No. 2001.090

Client Company Equistar Chemicals, LP

Phase.Task No. 00.00

Site Name Main Process Area, Tuscola Plant

Site Address Tuscola, Illinois

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other ____

Methods of Development

Pump	Bailer
☐ Centrifugal	☒ Bottom Valve
☐ Submersible	☐ Double Check Valve
☐ Peristaltic	☐ Stainless-steel Kemmerer

☐ Other ____

Water Volume Calculation

Initial Depth of Well (feet) 16.64
Initial Depth to Water (feet) 6.07
Height of Water Column in Well (feet) 10.57
Diameter (inches): Well ____ Gravel Pack ____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Instruments

	Serial No. (If applicable)
☐ pH Meter	
☐ DO Monitor	
☐ Conductivity Meter	
☐ Temperature Meter	
☒ Other YSI	

Water Disposal

____

Water Removal Data

Date	Time	Development Method: Pump	Development Method: Bailer	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons): Increment	Water Volume Removed (gallons): Cumulative	Product Volume Removed (gallons): Increment	Product Volume Removed (gallons): Cumulative	Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
7/14/05	1643		X			7.65	2				22.1	7.11	761		
	1650		X			10.25	4				20.1	7.17	717		
	1700		X			12.39	6				18.7	7.24	711		
	1705		X			14.59	8	8			19.0	7.31	732		

Circle the date and time that the development criteria are met.

Comments 1 Well Volume = 1.69 gal.; 8 gallons, yellowish brown silty water

Developer's Signature(s) Tracy Michael Date 7/14/05 Reviewer ____ Date ____

Form A0101 Rev. 10/6/94

Kelron Environmental

Kelron Environmental

Well Number MW-24

Serial No. WDPD-

☒ Development
☐ Purging

WELL DEVELOPMENT AND PURGING DATA

Page ____ of ____

Project Name 2005 Comprehensive Site Investigation

Project Manager Harry Walton

Project No. 2001.090

Client Company Equistar Chemicals, LP

Phase.Task No. 00.00

Site Name Main Process Area, Tuscola Plant

Site Address Tuscola, Illinois

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other ____

Methods of Development

Pump	Bailer
☐ Centrifugal	☒ Bottom Valve
☐ Submersible	☐ Double Check Valve
☐ Peristaltic	☐ Stainless-steel Kemmerer

☐ Other ____

Water Volume Calculation

Initial Depth of Well (feet) 14.96
Initial Depth to Water (feet) 3.32
Height of Water Column in Well (feet) 11.64
Diameter (inches): Well ____ Gravel Pack ____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Instruments

	Serial No. (If applicable)
☐ pH Meter	
☐ DO Monitor	
☐ Conductivity Meter	
☐ Temperature Meter	
☒ Other YSI 63/50 04A0154	

Water Disposal

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Product Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm) mS	Dissolved Oxygen (mg/L)	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
7/15/05	8:30					6.08	2.00	2.00			20.6	10.43	10.30		
~~7/15~~	~~8:35~~						~~4.00~~				~~22.7~~	~~6.75~~	~~[illegible]~~		
	8:40					2.04	4.00	4.00			19.5	10.62	10.98		
	8:50					2.06	6.00	6.00			18.0	10.48	9.55		

Circle the date and time that the development criteria are met.

Comments 1 Well Volume = 1.86 gal., black, sl. oily

Developer's Signature(s) Tracey Michael Date 7/15/05 Reviewer ____ Date ____

Form A0101 Rev. 10/6/94

Kelron Environmental

Kelron Environmental

Well Number MW-25

Serial No. WDPD-

☒ Development
☐ Purging

WELL DEVELOPMENT AND PURGING DATA

Page ____ of ____

Project Name 2005 Comprehensive Site Investigation

Project Manager Harry Walton

Project No. 2001.090

Client Company Equistar Chemicals, LP

Phase.Task No. 00.00

Site Name Main Process Area, Tuscola Plant

Site Address Tuscola, Illinois

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other ____

Methods of Development

Pump	Bailer
☐ Centrifugal	☒ Bottom Valve
☐ Submersible	☐ Double Check Valve
☐ Peristaltic	☐ Stainless-steel Kemmerer

☐ Other ____

Water Volume Calculation

Initial Depth of Well (feet) 16.60
Initial Depth to Water (feet) 4.25
Height of Water Column in Well (feet) 12.35
Diameter (inches): Well ____ Gravel Pack ____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Instruments

	Serial No. (If applicable)
☐ pH Meter	
☐ DO Monitor	
☐ Conductivity Meter	
☐ Temperature Meter	
☒ Other YSI 63/50	

Water Disposal

____

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Product Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm) mS	Dissolved Oxygen (mg/L)	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
7/15/05	9:15					6.50	2				20.7	12.33	24.80		
	9:25					8.76	2				19.5	12.38	24.15		
	9:35					10.55	2	6			18.2	12.35	23.90		

Circle the date and time that the development criteria are met.

Comments 1 well volume = 1.97 gallons; Sweet odor; black color of Cola, SI.

Developer's Signature(s) Tracy Michael

Date 7/15/05

Reviewer ____ Date ____

Form A0101 Rev. 10/6/94

Kelron Environmental

Kelron Environmental

Well Number MW-26

Serial No. WDPD-

☒ Development
☐ Purging

WELL DEVELOPMENT AND PURGING DATA

Page ____ of ____

Project Name 2005 Comprehensive Site Investigation

Project Manager Harry Walton

Project No. 2001.090

Client Company Equistar Chemicals, LP

Phase.Task No. 00.00

Site Name Main Process Area, Tuscola Plant

Site Address Tuscola, Illinois

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other ____

Methods of Development

Pump	Bailer
☐ Centrifugal	☒ Bottom Valve
☐ Submersible	☐ Double Check Valve
☐ Peristaltic	☐ Stainless-steel Kemmerer

☐ Other ____

Water Volume Calculation

Initial Depth of Well (feet) 22.61
Initial Depth to Water (feet) 5.35
Height of Water Column in Well (feet) 17.26
Diameter (inches): Well ____ Gravel Pack ____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Instruments

	Serial No. (If applicable)
☐ pH Meter	
☐ DO Monitor	
☐ Conductivity Meter	
☐ Temperature Meter	
☒ Other YSI 63/50	

Water Disposal

____

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Product Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
7/15/05	1245					6.50	2.75	2.75			20.9	7.36	663		
	1255					6.33	2.75	5.50			19.9	7.27	594		
	1305					5.80	2.75	8.25			19.9	7.26	590		

Circle the date and time that the development criteria are met.

Comments 2.76 gallons = 1 well volume

Developer's Signature(s) Tracy Michael Date 7/15/05 Reviewer ____ Date ____

Form A0101 Rev. 10/6/94

Kelron Environmental

Kelron Environmental

Well Number MW-27

Serial No. WDPD-

☒ Development
☐ Purging

WELL DEVELOPMENT AND PURGING DATA

Page ____ of ____

Project Name 2005 Comprehensive Site Investigation

Project Manager Harry Walton

Project No. 2001.090

Client Company Equistar Chemicals, LP

Phase.Task No. 00.00

Site Name Main Process Area, Tuscola Plant

Site Address Tuscola, Illinois

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other ____

Methods of Development

Pump	Bailer
☐ Centrifugal	☒ Bottom Valve
☐ Submersible	☐ Double Check Valve
☐ Peristaltic	☐ Stainless-steel Kemmerer

☐ Other ____

Water Volume Calculation

Initial Depth of Well (feet) 22.76
Initial Depth to Water (feet) 4.86
Height of Water Column in Well (feet) 17.90
Diameter (inches): Well ____ Gravel Pack ____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Instruments

	Serial No. (If applicable)
☐ pH Meter	
☐ DO Monitor	
☐ Conductivity Meter	
☐ Temperature Meter	
☒ Other YSI 63/50	

Water Disposal

____

Water Removal Data

Date	Time	Development Method: Pump	Development Method: Bailer	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons): Increment	Water Volume Removed (gallons): Cumulative	Product Volume Removed (gallons): Increment	Product Volume Removed (gallons): Cumulative	Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
7/15/05	13:20		X			6.21	3.00				22.7	7.03	787		
	13:30		↓			7.21	3.25				21.4	6.99	772		
	13:35					7.38	2.5	8.75			20.3	6.95	760		

Circle the date and time that the development criteria are met.

Comments 2.86 gallons = 1 well volume

Developer's Signature(s) Tracy Michael Date 7/15/05 Reviewer ____ Date ____

Form A0101 Rev. 10/6/94

Kelron Environmental

Kelron Environmental

Well Number MW-28

Serial No. WDPD-

☒ Development
☐ Purging

WELL DEVELOPMENT AND PURGING DATA

Page ____ of ____

Project Name 2005 Comprehensive Site Investigation

Project Manager Harry Walton

Project No. 2001.090

Client Company Equistar Chemicals, LP

Phase.Task No. 00.00

Site Name Main Process Area, Tuscola Plant

Site Address Tuscola, Illinois

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other ____

Methods of Development

Pump
☐ Centrifugal
☐ Submersible
☐ Peristaltic
☐ Other ____

Bailer
☒ Bottom Valve
☐ Double Check Valve
☐ Stainless-steel Kemmerer

Water Volume Calculation

Initial Depth of Well (feet) 22.76
Initial Depth to Water (feet) 3.34
Height of Water Column in Well (feet) 19.42
Diameter (inches): Well ____ Gravel Pack ____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Instruments

Serial No. (If applicable)

☐ pH Meter ____
☐ DO Monitor ____
☐ Conductivity Meter ____
☐ Temperature Meter ____
☒ Other YSI 63/50

Water Disposal

____

Water Removal Data

Date	Time	Development Method: Pump	Development Method: Bailer	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons): Increment	Water Volume Removed (gallons): Cumulative	Product Volume Removed (gallons): Increment	Product Volume Removed (gallons): Cumulative	Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
													WS		
7/18/05	1020		X			9.01	3.00				20.7	7.46	1227		
	1035		↓			15.67	6.00				18.1	7.36	919		
	1045					18.37	8.00				16.7	7.42	955		
	1059		↓			21.02	9.30				16.8	7.46	948		

Circle the date and time that the development criteria are met.

Comments One well volume = 3.10, Purge 5 9.3 gal of yellowish brown silty water; Very slow recharge, no odor

Developer's Signature(s) Tracy Michael Date 7/18/05 Reviewer ____ Date ____

Form AU101 Rev. 10/6/94

Kelron Environmental

Kelron Environmental

Well Number MW-29

Serial No. WDPD-

☒ Development
☐ Purging

WELL DEVELOPMENT AND PURGING DATA

Page ____ of ____

Project Name 2005 Comprehensive Site Investigation

Project Manager Harry Walton

Project No. 2001.090

Client Company Equistar Chemicals, LP

Phase.Task No. 00.00

Site Name Main Process Area, Tuscola Plant

Site Address Tuscola, Illinois

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
- ☒ Stabilization of Indicator Parameters
- ☐ Other _____

Methods of Development

Pump	Bailer
☐ Centrifugal	☒ Bottom Valve
☐ Submersible	☐ Double Check Valve
☐ Peristaltic	☐ Stainless-steel Kemmerer

☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 20.15

Initial Depth to Water (feet) 2.63

Height of Water Column in Well (feet) 17.52

Diameter (inches): Well ____ Gravel Pack ____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Instruments

	Serial No. (If applicable)
☐ pH Meter	
☐ DO Monitor	
☐ Conductivity Meter	
☐ Temperature Meter	
☒ Other YSI 63/50	

Water Disposal

_____

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Product Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
7/18/05	1125		X			6.71	3.00				21.2	7.23	1442		
	1131		↓			9.33	5.00	8			20.5	7.32	1353		
	1140					12.75	2.00	10			19.5	7.40	1257		
	1150					14.69	2.00	12			19.8	7.45	1199		

Circle the date and time that the development criteria are met.

Comments One Well Volume is ≈ 2.8 gallons, Purge ≈ 12 gallons yellowish brown Silty water plastic chemical odor toward the end of purging

Developer's Signature(s) Tracy Michael Date 7/18/05 Reviewer _____ Date _____

Kelron Environmental

Well Number MW-30

Serial No. WDPD-

☒ Development
☐ Purging

WELL DEVELOPMENT AND PURGING DATA

Page ____ of ____

Project Name 2005 Comprehensive Site Investigation

Project Manager Harry Walton

Project No. 2001.090

Client Company Equistar Chemicals, LP

Phase.Task No. 00.00

Site Name Main Process Area, Tuscola Plant

Site Address Tuscola, Illinois

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other ____

Methods of Development

Pump	Bailer
☐ Centrifugal	☒ Bottom Valve
☐ Submersible	☐ Double Check Valve
☐ Peristaltic	☐ Stainless-steel Kemmerer

☐ Other ____

Water Volume Calculation

Initial Depth of Well (feet) 22.61
Initial Depth to Water (feet) 18.03
Height of Water Column in Well (feet) 4.58
Diameter (inches): Well ____ Gravel Pack ____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Instruments

	Serial No. (If applicable)
☐ pH Meter	
☐ DO Monitor	
☐ Conductivity Meter	
☐ Temperature Meter	
☒ Other YSI 63/50	

Water Disposal

____

Water Removal Data

Date 7/18/05	Time	Development Method: Pump 15	Development Method: Bailer 50	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons): Increment	Water Volume Removed (gallons): Cumulative	Product Volume Removed (gallons): Increment	Product Volume Removed (gallons): Cumulative	Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
7/18/05	0.50					19.58	.75				16.5	7.27	674		
	1.55	1600				20.45	.75				15.5	7.24	680		
	1610					21.11	.26	1.75			15.8	7.26	681		

Circle the date and time that the development criteria are met.

Comments One well Volume = 0.73 gallons

Developer's Signature(s) Tracy Michael Date 7/18/05 Reviewer ____ Date ____

Form A0101 Rev. 10/6/94

Kelron Environmental

Kelron Environmental

Well Number MW-31

☒ Development
☐ Purging

WELL DEVELOPMENT AND PURGING DATA

Serial No. WDPD-

Page ____ of ____

Project Name 2005 Comprehensive Site Investigation

Project Manager Harry Walton

Project No. 2001.090

Client Company Equistar Chemicals, LP

Phase.Task No. 00.00

Site Name Main Process Area, Tuscola Plant

Site Address Tuscola, Illinois

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
- ☒ Stabilization of Indicator Parameters
- ☐ Other ____

Methods of Development

Pump	Bailer
☐ Centrifugal	☒ Bottom Valve
☐ Submersible	☐ Double Check Valve
☐ Peristaltic	☐ Stainless-steel Kemmerer

☐ Other ____

Water Volume Calculation

Initial Depth of Well (feet) 17.57

Initial Depth to Water (feet) 8.39

Height of Water Column in Well (feet) 8.98

Diameter (inches): Well ____ Gravel Pack ____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Instruments

	Serial No. (If applicable)
☐ pH Meter	
☐ DO Monitor	
☐ Conductivity Meter	
☐ Temperature Meter	
☒ Other YSI 63/50	

Water Disposal

____

Water Removal Data

Date	Time	Development Method: Pump	Development Method: Bailer	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons): Increment	Water Volume Removed (gallons): Cumulative	Product Volume Removed (gallons): Increment	Product Volume Removed (gallons): Cumulative	Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
7/18/05	1445		X			7.51	1.5				23.2	6.92	717		
	1450		↓			7.79	1.5	3			21.0	6.98	727		
	1500		↓			8.42	1.5	4.5			20.4	6.93	735		

Circle the date and time that the development criteria are met.

Comments One well volume is 1.43

Developer's Signature(s) Tracey Michael

Date 7/18/05

Reviewer ____ Date ____

Form A0101 Rev. 10/6/94

Kelron Environmental

Kelron Environmental

Well Number MW-32

Serial No. WDPD-

☒ Development
☐ Purging

WELL DEVELOPMENT AND PURGING DATA

Page ____ of ____

Project Name 2005 Comprehensive Site Investigation

Project Manager Harry Walton

Project No. 2001.090

Client Company Equistar Chemicals, LP

Phase.Task No. 00.00

Site Name Main Process Area, Tuscola Plant

Site Address Tuscola, Illinois

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other ____

Methods of Development

Pump	Bailer
☐ Centrifugal	☒ Bottom Valve
☐ Submersible	☐ Double Check Valve
☐ Peristaltic	☐ Stainless-steel Kemmerer

☐ Other ____

Water Volume Calculation

Initial Depth of Well (feet) 21.62
Initial Depth to Water (feet) 8.21
Height of Water Column in Well (feet) 13.41
Diameter (inches): Well ____ Gravel Pack ____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Instruments

	Serial No. (If applicable)
☐ pH Meter	
☐ DO Monitor	
☐ Conductivity Meter	
☐ Temperature Meter	
☒ Other YSI 63/50	

Water Disposal

____

Water Removal Data

Date	Time	Development Method: Pump	Development Method: Bailer	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons): Increment	Water Volume Removed (gallons): Cumulative	Product Volume Removed (gallons): Increment	Product Volume Removed (gallons): Cumulative	Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
~~7/18/05~~	~~1600~~					~~8.21~~									
7/18/05	1630		X			10.76	2.2				17.6	7.04	1373		
	1635					12.92	2.				16.8	7.01	1317		
	1640		↓			14.66	2.5	6.7			16.3	7.01	1294		Rain

Circle the date and time that the development criteria are met.

Comments One well Volume = 2.14

Developer's Signature(s) Tracy Michael Date 7/18/05 Reviewer ____ Date ____

Form A0101 Rev. 10/6/94

Kelron Environmental

Kelron Environmental

Well Number OW1

Serial No. WDPD-

☒ Development
☐ Purging

WELL DEVELOPMENT AND PURGING DATA

Project Name 2005 Comprehensive Site Investigation

Project Manager Harry Walton

Page ____ of ____

Client Company Equistar Chemicals, LP

Project No. 2001.090

Site Name Main Process Area, Tuscola Plant

Site Address Tuscola, Illinois

Phase.Task No. 00.00

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other ____

Methods of Development

Pump
☐ Centrifugal
☐ Submersible
☐ Peristaltic
☐ Other ____

Bailer
☒ Bottom Valve
☐ Double Check Valve
☐ Stainless-steel Kemmerer

Water Volume Calculation

Initial Depth of Well (feet) 33.20
Initial Depth to Water (feet) 8.22
Height of Water Column in Well (feet) 24.98
Diameter (inches): Well ____ Gravel Pack ____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Instruments

Serial No. (If applicable)

☐ pH Meter ____
☐ DO Monitor ____
☐ Conductivity Meter ____
☐ Temperature Meter ____
☒ Other YSI 63/50

Water Disposal

____

Water Removal Data

Date	Time	Development Method: Pump	Development Method: Bailer	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons): Increment	Water Volume Removed (gallons): Cumulative	Product Volume Removed (gallons): Increment	Product Volume Removed (gallons): Cumulative	Temperature (°C)	pH	Conductivity (mmhos/cm) µS	Dissolved Oxygen (mg/L)	Comments
7/15/05	1035		X			17.07	4.00	4.00			16.10	7.05	1548	~~16.10~~	
	1050		↓			20.55	4.00	8.00			15.7	7.06	1860		
	1105					25.70	4.00	12.00			16.7	7.12	1523		
	1120					31.52	3.00	15.00			17.3	7.11	1541		

Circle the date and time that the development criteria are met.

Comments 1 well volume = 3.99 gal

Developer's Signature(s) Tracy Mitchell

Date 7/15/05

Reviewer ____ Date ____

Form A0101 Rev. 10/6/94

Kelron Environm

Kelron Environmental

Location No. MW-17

WATER SAMPLING

Serial No. WSD-____

Group List Number ____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other ____

Date 7/19/05

Project Name 2005 Comprehensive Site Investigation

Project No. 2005.077

Project Manager Harry Walton

Phase Task No. ____

Site Name Equistar Chemicals, LP; Tuscola Plant

Sampling Specifications

Requested Sampling Depth Interval (feet) —

Requested Wait Following Development/Purging (hours) —

Initial Measurements

Time Elapsed From Final Development/Purging (hours) —

Initial Water Depth (feet) 17.52

Nonaqueous Liquids Present (Describe) ____

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	mS Cond. ~~(umhos/cm)~~	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth ft)	
7/19/05	840	TM	24.9	7.43		5.18	.11				17.52	V. Sl. Recharge

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO_3; S = H_2SO_4; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
VOC	3	~~Sg~~	40ml		X	Yes	X		1 container has bubble, V. little wat; needed some for Water Quality
									Rinsate @ 5,L

Filter Type ____ Chain-of-Custody Form Number ____

Comments DS would not ~~ma~~ register on YSI,

Signature Tracy Michael Date 7/19/05 Reviewer ____ Date ____

Form A0202 Rev.5/10/95

Kelron Environmental

Kelron Environmental

Location No. MW-18

WATER SAMPLING

Serial No. WSD-____

Group List Number ____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other ____

Date 7/19/05

Project Name 2005 Comprehensive Site Investigation

Project No. 2005.077

Project Manager Harry Walton

Phase Task No. ____

Site Name Equistar Chemicals, LP; Tuscola Plant

Sampling Specifications

Requested Sampling Depth Interval (feet) —

Requested Wait Following Development/Purging (hours) —

Initial Measurements

Time Elapsed From Final Development/Purging (hours) —

Initial Water Depth (feet) 16.48

Nonaqueous Liquids Present (Describe) ____

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth ft)	
7/19/05	950	TM	20.1	7.48		6.91					16.48	

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO_3; S = H_2SO_4; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
VOCs	6	VOA	40		X	HCL	X		Dupe collected
PAH	4	A	1L		X	—	X		Dupe collected
									MW-18 @ 0950

Filter Type ____

Chain-of-Custody Form Number ____

Comments Dup 1850

Signature Tracey Michael

Date 7/19/05

Reviewer ____ Date ____

Form A0202 Rev.5/10/95

Kelron Environmental

Kelron Environmental

Location No. MW-19

WATER SAMPLING

Serial No. WSD-____

Group List Number ____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other ____

Date 7-19-2005 SJZ

Project Name 2005 Comprehensive Site Investigation

Project No. 2005.077

Project Manager Harry Walton

Phase Task No. ____

Site Name Equistar Chemicals, LP; Tuscola Plant

Sampling Specifications

Requested Sampling Depth Interval (feet) 12 ft

Requested Wait Following Development/Purging (hours) ____

Initial Measurements

Time Elapsed From Final Development/Purging (hours) ____

Initial Water Depth (feet) 4.91

Nonaqueous Liquids Present (Describe) ____

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth ft)	
7/19/05	935	TM	20.3	7.18		758	5gal			X	11.53	

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO_3; S = H_2SO_4; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
VOC	3	Vial	40mL		X	HCL	X		

Filter Type ____ Chain-of-Custody Form Number ____

Comments ____

Signature Tracey Michael Date 7/19/05 Reviewer ____ Date ____

Form A0202 Rev.5/10/95

Kelron Environmental

Kelron Environmental

Location No. MW-20

WATER SAMPLING

Serial No. WSD-____

Group List Number ____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other ____

Date 7/19/2005 SJC

Project Name 2005 Comprehensive Site Investigation

Project No. 2005.077

Project Manager Harry Walton

Phase Task No. ____

Site Name Equistar Chemicals, LP; Tuscola Plant

Sampling Specifications

Requested Sampling Depth Interval (feet) 8.5

Requested Wait Following Development/Purging (hours) ____

Initial Measurements

Time Elapsed From Final Development/Purging (hours) ____

Initial Water Depth (feet) 6.80

Nonaqueous Liquids Present (Describe) ____

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth ft)	
7/19/05		TM										
	1310	TM	22.2	7.02		875	1.5			X	8.04	Recharged quickly

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO_3; S = H_2SO_4; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
VOC	3	VOA	40mL		X	HCL	X		

Filter Type ____ Chain-of-Custody Form Number ____

Comments ____

Signature Tracey Michael Date 7/19/05 Reviewer ____ Date ____

Form A0202 Rev.5/10/95

Kelron Environmental

Kelron Environmental

Location No. MW-21

WATER SAMPLING

Serial No. WSD-____

Group List Number ____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other ____

Date 7/19/05

Project Name 2005 Comprehensive Site Investigation

Project No. 2005.077

Project Manager Harry Walton

Phase Task No. ____

Site Name Equistar Chemicals, LP; Tuscola Plant

Sampling Specifications

Requested Sampling Depth Interval (feet) 7.5

Requested Wait Following Development/Purging (hours) —

Initial Measurements

Time Elapsed From Final Development/Purging (hours) —

Initial Water Depth (feet) 7.11

Nonaqueous Liquids Present (Describe) ____

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth ft)	
7/19/05	1130	TM	20.7	7.09		969				X	7.5	

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO_3; S = H_2SO_4; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
VOC	3	VOA	40		X	HCl	X		

Filter Type ____ Chain-of-Custody Form Number ____

Comments ____

Signature Harry Michael Date 7/19/05 Reviewer ____ Date ____

Form A0202 Rev.5/10/95

Kelron Environmental

Kelron Environmental

Location No. MW-22

WATER SAMPLING

Serial No. WSD-

Group List Number

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other

Date 7/19/05

Project Name 2005 Comprehensive Site Investigation

Project No. 2005.077

Project Manager Harry Walton

Phase Task No.

Site Name Equistar Chemicals, LP; Tuscola Plant

Sampling Specifications

Requested Sampling Depth Interval (feet) 6.5

Requested Wait Following Development/Purging (hours) —

Initial Measurements

Time Elapsed From Final Development/Purging (hours) —

Initial Water Depth (feet) 5.81

Nonaqueous Liquids Present (Describe)

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth ft)	
7/19/05	1215	TM	24.3	6.82		1057	.75			X	6.75	

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO_3; S = H_2SO_4; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
VOC	3	VOA	40		X	HCL	X		

Filter Type

Chain-of-Custody Form Number

Comments

Signature Tracy Michael

Date 7/19/05

Reviewer

Date

Form A0202 Rev.5/10/95

Kelron Environmental

Kelron Environmental

Location No. MW-23

WATER SAMPLING

Serial No. WSD-

Group List Number

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other

Date 7/19/05

Project Name 2005 Comprehensive Site Investigation

Project No. 2005.077

Project Manager Harry Walton

Phase Task No.

Site Name Equistar Chemicals, LP; Tuscola Plant

Sampling Specifications

Requested Sampling Depth Interval (feet) 7.00

Requested Wait Following Development/Purging (hours) —

Initial Measurements

Time Elapsed From Final Development/Purging (hours) —

Initial Water Depth (feet) 5.98

Nonaqueous Liquids Present (Describe)

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth ft)	
7/19/05	1240	TM	23.7	7.10		723				X	7.35	

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO_3; S = H_2SO_4; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
VOC	3	VOA	40 mL		X	HCL	X		

Filter Type

Chain-of-Custody Form Number

Comments

Signature Tracy Michael

Date 7/19/05

Reviewer

Date

Form A0202 Rev.5/10/95

Kelron Environmental

Kelron Environmental

Location No. MW-24

WATER SAMPLING

Serial No. WSD-____

Group List Number ____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other ____

Date ____

Project Name 2005 Comprehensive Site Investigation

Project No. 2005.077

Project Manager Harry Walton

Phase Task No. ____

Site Name Equistar Chemicals, LP; Tuscola Plant

Sampling Specifications

Requested Sampling Depth Interval (feet) 5.5'

Requested Wait Following Development/Purging (hours) —

Initial Measurements

Time Elapsed From Final Development/Purging (hours) —

Initial Water Depth (feet) 2.88

Nonaqueous Liquids Present (Describe) ____

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	mS Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth ft)	
7/21/05	1005	TM	25.1	9.99		9.16	2.5			X	5.45	Dark brown

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO_3; S = H_2SO_4; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
VOCs	3	VOA	40mL		X	HCL	X		

Filter Type ____

Chain-of-Custody Form Number ____

Comments ____

Signature Harry Michael

Date 7/21/05

Reviewer ____ Date ____

Form A0202 Rev.5/10/95

Kelron Environmental

Kelron Environmental

Location No. MW-25

WATER SAMPLING

Serial No. WSD-

Group List Number

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other

Date 7/21/05

Project Name 2005 Comprehensive Site Investigation

Project No. 2005.077

Project Manager Harry Walton

Phase Task No.

Site Name Equistar Chemicals, LP; Tuscola Plant

Sampling Specifications

Requested Sampling Depth Interval (feet) 7.5

Requested Wait Following Development/Purging (hours) —

Initial Measurements

Time Elapsed From Final Development/Purging (hours) —

Initial Water Depth (feet) 4.69

Nonaqueous Liquids Present (Describe)

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	mS Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth ft)	
7/21/05	1035	TM	23.2	12.21		26.1	3gal			X	7.69	DK Brown

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO_3; S = H_2SO_4; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
~~VOCs~~	~~3~~	~~VOA~~	~~40 mL~~		~~X~~	~~HCL~~	~~X~~		~~DK Brown color w/ slight fishy odor.~~
Metals	2	P	1000 mL		X	HNO_3	X		+ DUP

Filter Type

Chain-of-Custody Form Number

Comments Dup MW-25 @ 1035

Signature Tracey Michael

Date 7/21/05

Reviewer

Date

Form A0202 Rev.5/10/95

Kelron Environmental

Kelron Environmental

Location No. MW-26

WATER SAMPLING

Serial No. WSD-____

Group List Number ____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other ____

Date 7/21/05

Project Name 2005 Comprehensive Site Investigation

Project No. 2005.077

Project Manager Harry Walton

Phase Task No. ____

Site Name Equistar Chemicals, LP; Tuscola Plant

Sampling Specifications

Requested Sampling Depth Interval (feet) 8.5

Requested Wait Following Development/Purging (hours) —

Initial Measurements

Time Elapsed From Final Development/Purging (hours) —

Initial Water Depth (feet) 5.25

Nonaqueous Liquids Present (Describe) ____

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth ft)	
7/21/05	1250	TM	24.7	7.25		668	3			X	5.26	

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO_3; S = H_2SO_4; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
VOC	3	VOA	40mL		X	HCl	X		

Filter Type ____ Chain-of-Custody Form Number ____

Comments ____

Signature Tracey Michael Date 7/21/05 Reviewer ____ Date ____

Form A0202 Rev.5/10/95

Kelron Environmental

Kelron Environmental

Location No. 27

WATER SAMPLING

Serial No. WSD-

Group List Number

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other

Date 7/21/05

Project Name 2005 Comprehensive Site Investigation

Project No. 2005.077

Project Manager Harry Walton

Phase Task No.

Site Name Equistar Chemicals, LP; Tuscola Plant

Sampling Specifications

Requested Sampling Depth Interval (feet) 5.5

Requested Wait Following Development/Purging (hours) —

Initial Measurements

Time Elapsed From Final Development/Purging (hours) —

Initial Water Depth (feet) 4.79

Nonaqueous Liquids Present (Describe)

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	~~Cond.~~ SC (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth ft)	
7/21/05	1325	TM	26.2	6.94		818	225			X	7.25	

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO_3; S = H_2SO_4; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
VOC	3	VOA	40 mL		X	HCL	X		

Filter Type

Chain-of-Custody Form Number

Comments

Signature Tracy Michael

Date 7/21/05

Reviewer

Date

Form A0202 Rev.5/10/95

Kelron Environmental

Kelron Environmental

Location No. 28

WATER SAMPLING

Serial No. WSD-

Group List Number

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other

Date 7/21/05

Project Name 2005 Comprehensive Site Investigation

Project No. 2005.077

Project Manager Harry Walton

Phase Task No.

Site Name Equistar Chemicals, LP; Tuscola Plant

Sampling Specifications

Requested Sampling Depth Interval (feet) 8.00

Requested Wait Following Development/Purging (hours) —

Initial Measurements

Time Elapsed From Final Development/Purging (hours) —

Initial Water Depth (feet) 3.26

Nonaqueous Liquids Present (Describe)

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth ft)	
7/21/05	1405	TM	23.2	7.36		940	2			X	8.41	

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO_3; S = H_2SO_4; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
VOCs	3	VOA	40 mL		X	HCl	X		

Filter Type

Chain-of-Custody Form Number

Comments

Signature Tracy Michael

Date 7/21/05

Reviewer

Date

Form A0202 Rev.5/10/95

Kelron Environmental

Kelron Environmental

Location No. MW-29

WATER SAMPLING

Serial No. WSD-

Group List Number

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other

Date 7/21/05

Project Name 2005 Comprehensive Site Investigation

Project No. 2005.077

Project Manager Harry Walton

Phase Task No.

Site Name Equistar Chemicals, LP; Tuscola Plant

Sampling Specifications

Requested Sampling Depth Interval (feet)

Requested Wait Following Development/Purging (hours) —

Initial Measurements

Time Elapsed From Final Development/Purging (hours) —

Initial Water Depth (feet) 2.96

Nonaqueous Liquids Present (Describe)

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth ft)	
7/21/05	1435	TM	23.8	7.16		1535	2.3				5.91	

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO_3; S = H_2SO_4; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
VOCs	3	VOA	40mL		X	HCl	X		

Filter Type

Chain-of-Custody Form Number

Comments Chemical odor, Slightly sheened.

Signature Jerry Michael

Date 7/21/05

Reviewer

Date

Form A0202 Rev.5/10/95

Kelron Environmental

Kelron Environmental

Location No. MW-30

WATER SAMPLING

Serial No. WSD-____

Group List Number ____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other ____

Date 7/22/05

Project Name 2005 Comprehensive Site Investigation

Project No. 2005.077

Project Manager Harry Walton

Phase Task No. ____

Site Name Equistar Chemicals, LP; Tuscola Plant

Sampling Specifications

Requested Sampling Depth Interval (feet) —

Requested Wait Following Development/Purging (hours) —

Initial Measurements

Time Elapsed From Final Development/Purging (hours) —

Initial Water Depth (feet) 16.58

Nonaqueous Liquids Present (Describe) ____

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth ft)	
7/22/05	855	TM	17.2	7.21		717	0				16.58	

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO_3; S = H_2SO_4; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
VOCs	3	VOA	40		X	HCl	X		

Filter Type ____ Chain-of-Custody Form Number ____

Comments Water below top of screen, Clear, no odors

Signature Tracy Michael Date 7/22/05 Reviewer ____ Date ____

Form A0202 Rev.5/10/95

Kelron Environmental

Kelron Environmental

Location No. MW-31

WATER SAMPLING

Serial No. WSD-____

Group List Number ____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other ____

Date 7/22/05

Project Name 2005 Comprehensive Site Investigation

Project No. 2005.077

Project Manager Harry Walton

Phase Task No. ____

Site Name Equistar Chemicals, LP; Tuscola Plant

Sampling Specifications

Requested Sampling Depth Interval (feet) ~~6.5~~ 8.5

Requested Wait Following Development/Purging (hours) —

Initial Measurements

Time Elapsed From Final Development/Purging (hours) —

Initial Water Depth (feet) 7.22

Nonaqueous Liquids Present (Describe) ____

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth ft)	
7/22/05	830	TM	20.6	6.92		709	3			X	7.25	

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO_3; S = H_2SO_4; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
VOCs	3	VOA	40mL		X	HCL	X		W. Slightly Cloudy

Filter Type ____ Chain-of-Custody Form Number ____

Comments Quickly recharged.

Signature Tracy Michael Date 7/22/05 Reviewer ____ Date ____

Form A0202 Rev.5/10/95

Kelron Environmental

Kelron Environmental

Location No. MW-32

WATER SAMPLING

Serial No. WSD-____

Group List Number ____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other ____

Date 7/22/05

Project Name 2005 Comprehensive Site Investigation

Project No. 2005.077

Project Manager Harry Walton

Phase Task No. ____

Site Name Equistar Chemicals, LP; Tuscola Plant

Sampling Specifications

Requested Sampling Depth Interval (feet) 8.50

Requested Wait Following Development/Purging (hours) ____

Initial Measurements

Time Elapsed From Final Development/Purging (hours) ____

Initial Water Depth (feet) 6.16

Nonaqueous Liquids Present (Describe) ____

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth ft)	
7/22/05	930	TM	20.8	6.98		1414	2.5			X	8.40	

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO_3; S = H_2SO_4; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
VOCs	6	VOA	40		X	HCl	X		

Filter Type ____

Chain-of-Custody Form Number ____

Comments Dup collected 3250 at 930

Signature Tracy Michael

Date 7/22/05

Reviewer ____ Date ____

Form A0202 Rev.5/10/95

Kelron Environmental

Kelron Environmental

Location No. MW-03S

WATER SAMPLING

Serial No. WSD-

Group List Number

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other

Date 7/19/05

Project Name 2005 Comprehensive Site Investigation

Project No. 2005.077

Project Manager Harry Walton

Phase Task No.

Site Name Equistar Chemicals, LP; Tuscola Plant

Sampling Specifications

Requested Sampling Depth Interval (feet) 7.5

Requested Wait Following Development/Purging (hours) —

Initial Measurements

Time Elapsed From Final Development/Purging (hours) —

Initial Water Depth (feet) 8.15

Nonaqueous Liquids Present (Describe)

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth ft)	
7/19/05	1430	TM	23.3	6.55		1201				X	8.15	

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO_3; S = H_2SO_4; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
VOC	3	VOA	40 mL		X	HCL	X		

Filter Type

Chain-of-Custody Form Number

Comments

Signature Mary Michael

Date 7/19/05

Reviewer

Date

Form A0202 Rev.5/10/95

Kelron Environmental

Kelron Environmental

Location No. MW-10

WATER SAMPLING

Serial No. WSD-____

Group List Number ____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other _____

Date 7/19/05

Project Name 2005 Comprehensive Site Investigation

Project No. 2005.077

Project Manager Harry Walton

Phase Task No. _____

Site Name Equistar Chemicals, LP; Tuscola Plant

Sampling Specifications

Requested Sampling Depth Interval (feet) _____

Requested Wait Following Development/Purging (hours) —

Initial Measurements

Time Elapsed From Final Development/Purging (hours) —

Initial Water Depth (feet) 7.90

Nonaqueous Liquids Present (Describe) _____

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth ft)	
7/19/05	1495	TM	19.6	6.65		909				X	7.90	

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO_3; S = H_2SO_4; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
VOC	3	VOA	40ml		X	HCL	X		

Filter Type _____ Chain-of-Custody Form Number _____

Comments _____

Signature Tracey Michael Date _____ Reviewer _____ Date _____

Form A0202 Rev.5/10/95

Kelron Environmental

Kelron Environmental

Location No. MW-14

WATER SAMPLING

Serial No. WSD-____

Group List Number ____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other ____

Date 7/19/05

Project Name 2005 Comprehensive Site Investigation

Project No. 2005.077

Project Manager Harry Walton

Phase Task No. ____

Site Name Equistar Chemicals, LP; Tuscola Plant

Sampling Specifications

Requested Sampling Depth Interval (feet) ____

Requested Wait Following Development/Purging (hours) ____

Initial Measurements

Time Elapsed From Final Development/Purging (hours) ____

Initial Water Depth (feet) 8.22

Nonaqueous Liquids Present (Describe) ____

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth ft)	
7/19/05	1510	TM	21.9	6.65		1194					8.22	

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO_3; S = H_2SO_4; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
VOC	3	VOA	40mL		X	HCL	X		

Filter Type ____ Chain-of-Custody Form Number ____

Comments ____

Signature Tracy Mitchell Date 7/19/05 Reviewer ____ Date ____

Form A0202 Rev.5/10/95

Kelron Environmental