Submitted to:

Florida Department of
Environmental Protection

FIRST SEMI-ANNUAL WATER QUALITY MONITORING REPORT

Oak Hammock Disposal Facility

Osceola County, Florida

Prepared for

Omni Waste of Osceola County, LLC
1501 Omni Way
Holopaw, Florida

Prepared by

GeoSyntec Consultants

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Project Number FQ0638
November 2004

GeoSyntec Consultants

Import problems for OakHammock combined dep rev.txt

Please note that only the first instance of an error is indicated for each column.

SW-3

Field	Error	Value	Row	
Date_Analyzed	Null		4741	✓
Date_Sampled	Null		2194	— Method Blank
Filtered	Invalid value	NO	1	
Matrix	Invalid value	LI	346	
Storet_Code	Null		3821	
WACS_Well	Null		1166	
Well_Type	Null		1166	
Well_Purge_Flag	Invalid value	Yes	1	
Qualifier	Invalid qualifier	IP	3785	

ATTACHMENT A

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

WACS_FACILITY: 89544

MONITORING SITES

MONITORING SITE_NUM	WACS_ WELL	WELL_ TYPE	ZONE/LOCATION MONITORED	GW/SW CLASS	WACS REPORT TYPE
GROUND WATER					
MW-1A	19900	BG	UPPER SURFICIAL	G-II	INTGW/SEMGW
MW-1B	19901	BG	INTERMEDIATE SURIFICAL	G-II	INTGW/SEMGW
MW-1C	19902	BG	DEEP SURFICIAL	G-II	INTGW/SEMGW
MW-2A	19903	BG	UPPER SURFICIAL	G-II	INTGW/SEMGW
MW-2B	19904	BG	INTERMEDIATE SURIFICAL	G-II	INTGW/SEMGW
MW-2C	19905	BG	DEEP SURFICIAL	G-II	INTGW/SEMGW
MW-3A	19906	BG	UPPER SURFICIAL	G-II	INTGW/SEMGW
MW-3B	19907	BG	INTERMEDIATE SURIFICAL	G-II	INTGW/SEMGW
MW-3C	19908	BG	DEEP SURFICIAL	G-II	INTGW/SEMGW
MW-4A R	19909	BG	UPPER SURFICIAL	G-II	INTGW/SEMGW
MW-4B	19910	BG	INTERMEDIATE SURIFICAL	G-II	INTGW/SEMGW
MW-4C	19911	BG	DEEP SURFICIAL	G-II	INTGW/SEMGW
MW-5A	19912	BG	UPPER SURFICIAL	G-II	INTGW/SEMGW
MW-5B	19913	BG	INTERMEDIATE SURIFICAL	G-II	INTGW/SEMGW
MW-5C	19914	BG	DEEP SURFICIAL	G-II	INTGW/SEMGW
MW-6A	19915	BG	UPPER SURFICIAL	G-II	INTGW/SEMGW
MW-6B	19916	BG	INTERMEDIATE SURIFICAL	G-II	INTGW/SEMGW
MW-6C	19917	BG	DEEP SURFICIAL	G-II	INTGW/SEMGW
MW-7A	19918	CO	UPPER SURFICIAL	G-II	INTGW/SEMGW
MW-7B	19919	CO	INTERMEDIATE SURIFICAL	G-II	INTGW/SEMGW
MW-7C	19920	CO	DEEP SURFICIAL	G-II	INTGW/SEMGW
MW-8A	19921	CO	UPPER SURFICIAL	G-II	INTGW/SEMGW
MW-8B R	19922	CO	INTERMEDIATE SURIFICAL	G-II	INTGW/SEMGW
MW-8C	19923	CO	DEEP SURFICIAL	G-II	INTGW/SEMGW
MW-9A	19924	CO	UPPER SURFICIAL	G-II	INTGW/SEMGW
MW-9B	19925	CO	INTERMEDIATE SURIFICAL	G-II	INTGW/SEMGW
MW-9C	19926	CO	DEEP SURFICIAL	G-II	INTGW/SEMGW
MW-10A	19927	CO	UPPER SURFICIAL	G-II	INTGW/SEMGW
MW-10B	19928	CO	INTERMEDIATE SURIFICAL	G-II	INTGW/SEMGW

ATTACHMENT A

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

WACS_FACILITY: 89544

MONITORING SITES

MONITORING SITE_NUM	WACS_ WELL	WELL_ TYPE	ZONE/LOCATION MONITORED	GW/SW CLASS	WACS REPORT TYPE
MW-10C	19929	CO	DEEP SURFICIAL	G-II	INTGW/SEMGW
MW-11A	19930	CO	UPPER SURFICIAL	G-II	INTGW/SEMGW
MW-11B	19931	CO	INTERMEDIATE SURIFICAL	G-II	INTGW/SEMGW
MW-11C	19932	CO	DEEP SURFICIAL	G-II	INTGW/SEMGW
MW-12A	19933	CO	UPPER SURFICIAL	G-II	INTGW/SEMGW
MW-12B	19934	CO	INTERMEDIATE SURIFICAL	G-II	INTGW/SEMGW
MW-12C	19935	CO	DEEP SURFICIAL	G-II	INTGW/SEMGW
MW-13A	19936	CO	UPPER SURFICIAL	G-II	INTGW/SEMGW
MW-13B	19937	CO	INTERMEDIATE SURIFICAL	G-II	INTGW/SEMGW
MW-13C	19938	CO	DEEP SURFICIAL	G-II	INTGW/SEMGW
MW-14A	19939	CO	UPPER SURFICIAL	G-II	INTGW/SEMGW
MW-14B	19940	CO	INTERMEDIATE SURIFICAL	G-II	INTGW/SEMGW
MW-14C	19941	CO	DEEP SURFICIAL	G-II	INTGW/SEMGW
MW-15A	19942	CO	UPPER SURFICIAL	G-II	INTGW/SEMGW
MW-15B R	19943	CO	INTERMEDIATE SURIFICAL	G-II	INTGW/SEMGW
MW-15C	19944	CO	DEEP SURFICIAL	G-II	INTGW/SEMGW
SURFACE WATER					
SW-3	19945	CO	DOWN STREAM ON BULL CREEK	SW-IIIF	SEMSW
SW-4	19946	BG	UP STREAM NW OF SITE	SW-IIIF	SEMSW
LEACHATE					
L-1	19947	CO	CELL 1 PRIMARY RISER	N/A	ANNLC
L-2	19948	CO	CELL 2 PRIMARY RISER	N/A	ANNLC
L-3	19949	CO	CELL 3 PRIMARY RISER	N/A	ANNLC
L-4	19950	CO	CELL 4 PRIMARY RISER	N/A	ANNLC

Well Type Codes
(AS) Assessment (BG) Background (CO) Compliance (DE) Detection
(DG) Downgradient (IM) Intermediate (IW) Irrigation Well (OT) Other (PZ)Piezometer
(SO) Source (UP) Upgradient (WS) Water supply

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT

Rule 62-701.510(8)(a)

WACS Report Type: SEMGW

Semi-Annual Ground Water Monitoring (Page 1 of 4)

WACS_FACILITY 89544 SAMPLE DATE _____

WACS_WELL _____ ANALYSIS DATE _____

MONITORING_SITE_NUM _____

Ground water classification: G-II

Well Purged prior to Sample Collection? (Y/N) _____

PERMITTED: ___ (AS) Assessment (IW) Irrigation Well
WELL TYPE (BG) Background (OT) Other
(CO) Compliance (PZ) Piezometer
(DE) Detection (SO) Source
(DG) Downgradient (UP) Upgradient
(IM) Intermediate (WS) Water supply

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED (Y/N)	PRESERVATION INTACT (Y/N)	ANALYSIS METHOD	ANALYSIS DATE/TIME	ANALYSIS RESULT/ UNITS	DETECTION LIMITS/UNITS
082545	Water Level						Ft NGVD	
000010	Temperature (field)						°C	
000299	Dissolved Oxygen (field)						Mg/L	
000406	pH (field)						STD	
000094	Spec. Conductance (field)						Umhos/cm	
082078	Turbidity (field)						NTU's	
000610	Total Ammonia as N						Mg/L	
000940	Chlorides						Mg/L	
000620	Nitrate as N						Mg/L	
070300	Total Dissolved Solids						Mg/L	
	METALS							
001097	Antimony						Ug/L	
001002	Arsenic						Ug/L	
001007	Barium						Ug/L	
001012	Beryllium						Ug/L	
001027	Cadmium						Ug/L	
001034	Chromium						Ug/L	
001037	Cobalt						Ug/L	
001042	Copper						Ug/L	
001045	Iron						Ug/L	
001051	Lead						Ug/L	
071900	Mercury						Ug/l	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT

Rule 62-701.510(8)(a)

WACS Report Type: SEMGW

Semi-Annual Ground Water Monitoring (Page 2 of 4)

WACS_FACILITY 89544 _____ SAMPLE DATE _____

WACS_WELL _____ ANALYSIS DATE _____

MONITORING_SITE_NUM _____

Ground water classification: G-II

Well Purged prior to Sample Collection? (Y/N) _____

PERMITTED: ___ WELL TYPE
(AS) Assessment (IW) Irrigation Well
(BG) Background (OT) Other
(CO) Compliance (PZ) Piezometer
(DE) Detection (SO) Source
(DG) Downgradient (UP) Upgradient
(IM) Intermediate (WS) Water supply

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED (Y/N)	PRESERVATION INTACT (Y/N)	ANALYSIS METHOD	ANALYSIS DATE/TIME	ANALYSIS RESULT/ UNITS	DETECTION LIMITS/UNITS
001067	Nickel						Ug/L	
001147	Selenium						Ug/L	
001077	Silver						Ug/L	
000929	Sodium						Mg/L	
001059	Thallium						Ug/L	
001087	Vanadium						Ug/L	
001092	Zinc						Ug/L	
	ORGANICS							
081552	Acetone						Ug/L	
034215	Acrylonitrile						Ug/L	
034030	Benzene						Ug/L	
073085	Bromochloromethane						Ug/L	
032101	Bromodichloromethane						Ug/L	
032104	Bromoform						Ug/L	
077041	Carbon Disulfide						Ug/L	
032102	Carbon Tetrachloride						Ug/L	
034301	Chlorobenzene						Ug/L	
034311	Chloroethane						Ug/L	
032106	Chloroform						Ug/L	
032105	Dibromochloromethane						Ug/L	
038437	1,2-Dibromo-3-chloropropane						Ug/L	
077651	1,2-Dibromoethane						Ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT

Rule 62-701.510(8)(a)

WACS Report Type: SEMGW

Semi-Annual Ground Water Monitoring (Page 3 of 4)

WACS_FACILITY 89544 _____ SAMPLE DATE _____

WACS_WELL _____ ANALYSIS DATE _____

MONITORING_SITE_NUM _____

Ground water classification: G-II

Well Purged prior to Sample Collection? (Y/N) _____

PERMITTED: ___ WELL TYPE
(AS) Assessment (IW) Irrigation Well
(BG) Background (OT) Other
(CO) Compliance (PZ) Piezometer
(DE) Detection (SO) Source
(DG) Downgradient (UP) Upgradient
(IM) Intermediate (WS) Water supply

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED (Y/N)	PRESERVATION INTACT (Y/N)	ANALYSIS METHOD	ANALYSIS DATE/TIME	ANALYSIS RESULT/ UNITS	DETECTION LIMITS/UNITS
034536	1,2-Dichlorobenzene						Ug/L	
034571	1,4-Dichlorobenzene						Ug/L	
049263	trans-1,4-Dichloro-2-butene						Ug/L	
034496	1,1-Dichloroethane						Ug/L	
034531	1,2-Dichloroethane						Ug/L	
034501	1,1-Dichloroethene						Ug/L	
077093	cis-1,2-Dichloroethene						Ug/L	
034546	trans-1,2-Dichloroethene						Ug/L	
034541	1,2-Dichloropropane						Ug/L	
034704	cis-1,3-Dichloropropene						Ug/L	
034699	trans-1,3-Dichloropropene						Ug/L	
034371	Ethylbenzene						Ug/L	
034413	Methyl bromide						Ug/L	
077103	Methyl butyl ketone						Ug/L	
034418	Methyl chloride						Ug/L	
081595	Methyl ethyl ketone						Ug/L	
077424	Methyl iodide						Ug/L	
077596	Methylene bromide						Ug/L	
034423	Methylene chloride						Ug/L	
081596	Methyl isobutyl ketone						Ug/L	
077128	Styrene						Ug/L	
077562	1,1,1,2-Tetrachloroethane						Ug/l	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT

Rule 62-701.510(8)(a)

WACS Report Type: SEMGW

Semi-Annual Ground Water Monitoring (Page 4 of 4)

WACS_FACILITY 89544 _____ SAMPLE DATE _____

WACS_WELL _____ ANALYSIS DATE _____

MONITORING_SITE_NUM _____

Ground water classification: G-II

Well Purged prior to Sample Collection? (Y/N) _____

PERMITTED: ___ (AS) Assessment (IW) Irrigation Well
WELL TYPE (BG) Background (OT) Other
(CO) Compliance (PZ) Piezometer
(DE) Detection (SO) Source
(DG) Downgradient (UP) Upgradient
(IM) Intermediate (WS) Water supply

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED (Y/N)	PRESERVATION INTACT (Y/N)	ANALYSIS METHOD	ANALYSIS DATE/TIME	ANALYSIS RESULT/ UNITS	DETECTION LIMITS/UNITS
034516	1,1,2,2-Tetrachloroethane						Ug/L	
034475	Tetrachloroethene						Ug/L	
034010	Toluene						Ug/L	
034506	1,1,1-Trichloroethane						Ug/L	
034511	1,1,2-Trichloroethane						Ug/L	
039180	Trichloroethene						Ug/L	
034488	Trichlorofluoromethane						Ug/L	
077443	1,2,3-Trichloropropane						Ug/L	
077057	Vinyl Acetate						Ug/L	
039175	Vinyl Chloride						Ug/L	
034020	Xylenes						Ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT

Rule 62-701.510(8)(b)

WACS Report Type: SEMSW

Semi-annual Surface Water Monitoring (Page 1 of 3)

WACS_FACILITY 89544 SAMPLING DATE/TIME _____

WACS_WELL _____ Surface water classification: SW-IIIF

MONITORING_SITE_NUM _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED (Y/N)	PRESERVATION INTACT (Y/N)	ANALYSIS METHOD	ANALYSIS DATE/TIME	ANALYSIS RESULT /UNITS	DETECTION LIMITS/ UNITS
082545	Water Level						Ft	
000010	Temperature (field)						°C	
000299	Dissolved Oxygen (field)						Mg/L	
000406	pH (field)						STD	
000094	Spec. Conductance (field)						Umhos/cm	
082078	Turbidity (field)						NTU's	
000612	Un-ionized Ammonia as N						Mg/L	
000900	Total Hardness as $CaCO_3$						Mg/L	
000680	Total Organic Carbon						Mg/L	
070300	Total Dissolved Solids						Mg/L	
000530	Total Suspended Solids						Mg/L	
000310	BOD (5 Day) @ 20 ^{o}C						Mg/L	
000340	Chemical Oxygen Demand						Mg/L	
000600	Total Nitrogen as N						Mg/L	
000620	Nitrate as N						Mg/L	
000650	Total Phosphates as PO_4						Mg/L	
032211	Chlorophyll A						Ug/L	
031616	Fecal coliform						#/100	
	METALS							
001097	Antimony						Ug/L	
001002	Arsenic						Ug/L	
001007	Barium						Ug/L	
001012	Beryllium						Ug/L	
001027	Cadmium						Ug/L	
001034	Chromium						Ug/L	
001037	Cobalt						Ug/L	
001042	Copper						Ug/L	
001045	Iron						Ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT

Rule 62-701.510(8)(b)

WACS Report Type: SEMSW

Semi-annual Surface Water Monitoring (Page 2 of 3)

WACS_FACILITY 89544 SAMPLING DATE/TIME _____

WACS_WELL _____ Surface water classification: SW-IIIF

MONITORING_SITE_NUM _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED (Y/N)	PRESERVATION INTACT (Y/N)	ANALYSIS METHOD	ANALYSIS DATE/TIME	ANALYSIS RESULT /UNITS	DETECTION LIMITS/ UNITS
001051	Lead						Ug/L	
071900	Mercury						Ug/L	
001067	Nickel						Ug/L	
001147	Selenium						Ug/L	
001077	Silver						Ug/L	
001059	Thallium						Ug/L	
001087	Vanadium						Ug/L	
001092	Zinc						Ug/L	
	ORGANICS							
081552	Acetone						Ug/L	
034215	Acrylonitrile						Ug/L	
034030	Benzene						Ug/L	
073085	Bromochloromethane						Ug/L	
032101	Bromodichloromethane						Ug/L	
032104	Bromoform						Ug/L	
077041	Carbon Disulfide						Ug/L	
032102	Carbon Tetrachloride						Ug/L	
034301	Chlorobenzene						Ug/L	
034311	Chloroethane						Ug/L	
032106	Chloroform						Ug/L	
032105	Dibromochloromethane						Ug/L	
038437	1,2-Dibromo-3-chloropropane						Ug/L	
406369	1,2-Dibromoethane						Ug/L	
034536	1,2-Dichlorobenzene						Ug/L	
034571	1,4-Dichlorobenzene						Ug/L	
049263	trans-1,4-Dichloro-2-butene						Ug/L	
034496	1,1-Dichloroethane						Ug/L	
034531	1,2-Dichloroethane						Ug/L	

OAK HAMMOCK DISPOSAL, CLASS I LANDFILL

PARAMETER MONITORING REPORT

Rule 62-701.510(8)(b)

WACS Report Type: SEMSW

Semi-annual Surface Water Monitoring (Page 3 of 3)

WACS_FACILITY 89544 SAMPLING DATE/TIME _____

WACS_WELL _____ Surface water classification: SW-IIIF

MONITORING_SITE_NUM _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED (Y/N)	PRESERVATION INTACT (Y/N)	ANALYSIS METHOD	ANALYSIS DATE/TIME	ANALYSIS RESULT /UNITS	DETECTION LIMITS/ UNITS
034501	1,1-Dichloroethene						Ug/L	
077093	cis-1,2-Dichloroethene						Ug/L	
034546	trans-1,2-Dichloroethene						Ug/L	
034541	1,2-Dichloropropane						Ug/L	
034704	cis-1,3-Dichloropropene						Ug/L	
034699	trans-1,3-Dichloropropene						Ug/L	
034371	Ethylbenzene						Ug/L	
034413	Methyl bromide						Ug/L	
077103	Methyl butyl ketone						Ug/L	
034418	Methyl chloride						Ug/L	
081595	Methyl ethyl ketone						Ug/L	
077424	Methyl iodide						Ug/L	
077596	Methylene bromide						Ug/L	
034423	Methylene chloride						Ug/L	
081596	Methyl isobutyl ketone						Ug/L	
077128	Styrene						Ug/L	
077562	1,1,1,2-Tetrachloroethane						Ug/L	
034516	1,1,2,2-Tetrachloroethane						Ug/L	
034475	Tetrachloroethene						Ug/L	
034010	Toluene						Ug/L	
034506	1,1,1-Trichloroethane						Ug/L	
034511	1,1,2-Trichloroethane						Ug/L	
039180	Trichloroethene						Ug/L	
034488	Trichlorofluoromethane						Ug/L	
077443	1,2,3-Trichloropropane						Ug/L	
077057	Vinyl Acetate						Ug/L	
039175	Vinyl Chloride						Ug/L	
034020	Xylenes						Ug/L	

OAK HAMMOCK, CLASS I LANDFILL

PARAMETER MONITORING REPORT

Rule 62-701.510(8)(c)&(d)

WACS Report Type: ANNLC

Annual Leachate Monitoring (Page 1 of 9)

WACS_FACILITY 89544 _____ SAMPLE DATE _____

WACS_WELL _____ ANALYSIS DATE _____

MONITORING_SITE_NUM _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	PRESERVATIVES ADDED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMIT/ UNITS
000010	Temperature (field)						°C	
000299	Dissolved Oxygen (field)						Mg/L	
000406	pH (field)						STD	
000094	Spec. Conductance (field)						Umhos/c	
000610	Total Ammonia as N						Mg/L	
000940	Chlorides						Mg/L	
000620	Nitrate as N						Mg/L	
070300	Total Dissolved Solids						Mg/L	
000440	Bicarbonate as HCO_3						Mg/L	
	METALS							
001097	Antimony						Ug/L	
001002	Arsenic						Ug/L	
001007	Barium						Ug/L	
001012	Beryllium						Ug/L	
001027	Cadmium						Ug/L	
001034	Chromium						Ug/L	
001037	Cobalt						Ug/L	
001042	Copper						Ug/L	
001045	Iron						Ug/L	
001051	Lead						Ug/L	
071900	Mercury						Ug/L	
001067	Nickel						Ug/L	
001147	Selenium						Ug/L	
001077	Silver						Ug/L	
000929	Sodium						Mg/L	
001059	Thallium						Ug/L	

OAK HAMMOCK, CLASS I LANDFILL

PARAMETER MONITORING REPORT

Rule 62-701.510(8)(c)&(d)

WACS Report Type: ANNLC

Annual Leachate Monitoring (Page 2 of 9)

WACS_FACILITY 89544 _____ SAMPLE DATE _____

WACS_WELL _____ ANALYSIS DATE _____

MONITORING_SITE_NUM _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	PERSERVATIVES ADDED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
001102	Tin						Ug/L	
001087	Vanadium						Ug/L	
001092	Zinc						Ug/L	
	ORGANICS							
034205	Acenaphthene						Ug/L	
034200	Acenaphthylene						Ug/L	
081552	Acetone						Ug/L	
076997	Acetonitrile; Methyl cyanide						Ug/L	
081553	Acetophenone						Ug/L	
073501	2-Acetylaminofluorene; 2-AAF						Ug/L	
034210	Acrolein						Ug/L	
034215	Acrylonitrile						Ug/L	
039330	Aldrin						Ug/L	
078109	Allyl chloride						Ug/L	
077581	4-Aminobiphenyl						Ug/L	
034220	Anthracene						Ug/L	
034030	Benzene						Ug/L	
034526	Benzo(a)anthracene						Ug/L	
034230	Benzo(b)fluoranthene						Ug/L	
034242	Benzo(k)fluoranthene						Ug/L	
034247	Benzo(a)pyrene						Ug/L	
034521	Benzo(g,h,i)perylene						Ug/L	
077147	Benzyl alcohol						Ug/L	
039337	alpha-BHC						Ug/L	
039338	beta-BHC						Ug/L	
046323	delta-BHC						Ug/L	

OAK HAMMOCK, CLASS I LANDFILL

PARAMETER MONITORING REPORT

Rule 62-701.510(8)(c)&(d)

WACS Report Type: ANNLC

Annual Leachate Monitoring (Page 3 of 9)

WACS_FACILITY 89544 _____ SAMPLE DATE _____

WACS_WELL _____ ANALYSIS DATE _____

MONITORING_SITE_NUM _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FILED FILTERED	PRESERVATIVES ADDED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
039340	gamma-BHC; Lindane						Ug/L	
034273	Bis(2-chloroethyl)ether						Ug/L	
034278	Bis(2-chloroethoxy)methane						Ug/L	
073522	Bis (2-chloro-1-methylethyl) ether						Ug/L	
039100	Bis(2-ethylhexyl)phthalate						Ug/L	
073085	Bromochloromethane						Ug/L	
032101	Bromodichloromethane						Ug/L	
032104	Bromoform						Ug/L	
034636	4-Bromophenyl phenyl ether						Ug/L	
034292	Butyl benzyl phthalate						Ug/L	
077041	Carbon Disulfide						Ug/L	
032102	Carbon Tetrachloride						Ug/L	
039350	Chlordane						Ug/L	
073529	p-Chloroaniline						Ug/L	
034301	Chlorobenzene						Ug/L	
039460	Chlorobenzilate						Ug/L	
034452	p-chloro-m-cresol						Ug/L	
034311	Chloroethane						Ug/L	
032106	Chloroform						Ug/L	
034581	2-Chloronaphthalene						Ug/L	
034586	2-Chlorophenol						Ug/L	
034641	4-Chlorophenyphenyl ether						Ug/L	
081520	Chloroprene						Ug/L	
034320	Chrysene						Ug/L	
077151	m-Cresol						Ug/L	
077152	o-Cresol						Ug/L	

OAK HAMMOCK, CLASS I LANDFILL

PARAMETER MONITORING REPORT

Rule 62-701.510(8)(c)&(d)

WACS Report Type: ANNLC

Annual Leachate Monitoring (Page 4 of 9)

WACS_FACILITY 89544 SAMPLE DATE _____

WACS_WELL _____ ANALYSIS DATE _____

MONITORING_SITE_NUM _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	PRESERVATIVES ADDED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
077146	p-Cresol						Ug/L	
000720	Cyanide						mg/l	
039730	2,4-D; 2,4-Dichlorophenoxyacetic						Ug/L	
039360	4,4-DDD						Ug/L	
039365	4,4-DDE						Ug/L	
039370	4,4-DDT						Ug/L	
073540	Diallate						Ug/L	
034556	Dibenz(a,h)anthracene						Ug/L	
081302	Dibenzofuran						Ug/L	
032105	Dibromochloromethane						Ug/L	
049146	1,2-Dibromo-3-chloropropane						Ug/L	
077651	1,2-Dibromoethane						Ug/L	
039110	Di-n-butylphthalate						Ug/L	
034536	1,2-Dichlorobenzene						Ug/L	
034566	1,3-Dichlorobenzene						Ug/L	
034571	1,4-Dichlorobenzene						Ug/L	
034631	3,3-Dichlorobenzidine						Ug/L	
049263	trans-1,4-Dichloro-2-butene						Ug/L	
034668	Dichlorodifluoromethane						Ug/L	
034496	1,1-Dichloroethane						Ug/L	
034531	1,2-Dichloroethane						Ug/L	
034501	1,1-Dichloroethene						Ug/L	
077093	cis-1,2-Dichloroethene						Ug/L	
034546	trans-1,2-Dichloroethene						Ug/L	
034601	2,4-Dichlorophenol						Ug/L	

OAK HAMMOCK, CLASS I LANDFILL

PARAMETER MONITORING REPORT

Rule 62-701.510(8)(c)&(d)

WACS Report Type: ANNLC

Annual Leachate Monitoring (Page 5 of 9)

WACS_FACILITY 89544 SAMPLE DATE _____

WACS_WELL _____ ANALYSIS DATE _____

MONITORING_SITE_NUM _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	PRESERVATIVES ADDED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
077541	2,6-Dichlorophenol						Ug/L	
034541	1,2-Dichloropropane						Ug/L	
077173	1,3-Dichloropropane						Ug/L	
077170	2,2-Dichloropropane						Ug/L	
077168	1,1-Dichloropropene						Ug/L	
034704	cis-1,3-Dichloropropene						Ug/L	
034699	trans-1,3-Dichloropropene						Ug/L	
039380	Dieldrin						Ug/L	
034336	Diethyl phthalate						Ug/L	
073553	Thionazin						Ug/L	
046314	Dimethoate						Ug/L	
073558	p-(Dimethylamino)azobenzene						Ug/L	
073559	7,12-Dimethylbenz(a)anthracene						Ug/L	
082213	3,3-Dimethylbenzidine						Ug/L	
034606	2,4-Dimethylphenol						Ug/L	
034341	Dimethyl phthalate						Ug/L	
045622	m-Dinitrobenzene						Ug/L	
034657	2-Methyl-4,6-dinitrophenol						Ug/L	
034616	2,4-Dinitrophenol						Ug/L	
034611	2,4-Dinitrotoluene						Ug/L	
034626	2,6-Dinitroltoluene						Ug/L	
081287	DNBP (Dinoseb)						Ug/L	
034596	Di-n-octyl phthalate						Ug/L	
077579	Diphenylamine						Ug/L	
081888	Disulfoton						Ug/L	
034361	Endosulfan I						Ug/L	

OAK HAMMOCK, CLASS I LANDFILL

PARAMETER MONITORING REPORT

Rule 62-701.510(8)(c)&(d)

WACS Report Type: ANNLC

Annual Leachate Monitoring (Page 6 of 9)

WACS_FACILITY 89544 _____ SAMPLE DATE _____

WACS_WELL _____ ANALYSIS DATE _____

MONITORING_SITE_NUM _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	PRESERVATIVES ADDED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
034356	Endosulfan II						Ug/L	
034351	Endosulfan sulfate						Ug/L	
039390	Endrin						Ug/L	
034366	Endrin aldehyde						Ug/L	
034371	Ethylbenzene						Ug/L	
073570	Ethyl methacrylate						Ug/L	
073571	Ethyl methanesulfonate						Ug/L	
038462	Famphur						Ug/L	
034376	Fluoranthene						Ug/L	
034381	Fluorene						Ug/L	
039410	Heptachlor						Ug/L	
039420	Heptachlor epoxide						Ug/L	
039700	Hexachlorobenzene						Ug/L	
034391	Hexachlorobutadiene						Ug/L	
034386	Hexachlorocyclopentadiene						Ug/L	
034396	Hexachloroethane						Ug/L	
073576	Hexachloropropene						Ug/L	
034403	Indeno (1,2,3-c,d) pyrene						Ug/L	
077033	Isobutyl alcohol						Ug/L	
039430	Isodrin						Ug/L	
034408	Isophorone						Ug/L	
073582	Isosafrole						Ug/L	
081281	Kepone						Ug/L	
081593	Methacrylonitrile						Ug/L	
073589	Methapyrilene						Ug/L	
039480	Methoxychlor							

OAK HAMMOCK, CLASS I LANDFILL

PARAMETER MONITORING REPORT

Rule 62-701.510(8)(c)&(d)

WACS Report Type: ANNLC

Annual Leachate Monitoring (Page 7 of 9)

WACS_FACILITY 89544 _____ SAMPLE DATE _____

WACS_WELL _____ ANALYSIS DATE _____

MONITORING_SITE_NUM _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	PRESERVATIVES ADDED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
034413	Methyl bromide						Ug/L	
077103	Methyl butyl ketone						Ug/L	
034418	Methyl chloride						Ug/L	
073591	3-Methylcholanthrene						Ug/L	
081595	Methyl ethyl ketone						Ug/L	
077424	Methyl iodide						Ug/L	
081597	Methyl methacrylate						Ug/L	
073595	Methyl methanesulfonate						Ug/L	
077416	2-Methylnaphthalene						Ug/L	
039600	Methyl Parathion						Ug/L	
077596	Methylene Bromide						Ug/L	
034423	Methylene Chloride						Ug/L	
081596	Methyl isobutyl ketone						Ug/L	
034696	Naphthalene						Ug/L	
073599	1,4-Naphthoquinone						Ug/L	
073600	1-Naphthylamine						Ug/L	
073601	2-Naphthylamine						Ug/L	
078142	o-Nitroaniline						Ug/L	
078300	m-Nitroaniline						Ug/L	
030342	p-Nitroaniline						Ug/L	
034447	Nitrobenzene						Ug/L	
034591	2-Nitrophenol						Ug/L	
034646	4-Nitrophenol						Ug/L	
073609	N-Nitrosodi-n-butylamine						Ug/L	
073611	N-Nitrosodiethylamine						Ug/L	

OAK HAMMOCK, CLASS I LANDFILL

PARAMETER MONITORING REPORT

Rule 62-701.510(8)(c)&(d)

WACS Report Type: ANNLC

Annual Leachate Monitoring (Page 8 of 9)

WACS_FACILITY 89544 SAMPLE DATE _____

WACS_WELL _____ ANALYSIS DATE _____

MONITORING_SITE_NUM _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	PRESERVATIVES ADDED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
034438	N-Nitrosodimethylamine						Ug/L	
034428	N-Nitrosodipropylamine						Ug/L	
034433	N-Nitrosodiphenylamine						Ug/L	
073613	N-Nitrosomethylethalamine						Ug/L	
073619	N-Nitrosopiperidine						Ug/L	
078206	N-Nitrosopyrrolidine						Ug/L	
073622	5-Nitro-o-toluidine						Ug/L	
039540	Parathion						Ug/L	
077793	Pentachlorobenzene						Ug/L	
081316	Pentachloronitrobenzene						Ug/L	
039032	Pentachlorophenol						Ug/L	
073626	Phenacetin						Ug/L	
034461	Phenanthrene						Ug/L	
032730	Phenols						Ug/L	
073628	p-Phenylenediamine						Ug/L	
046313	Phorate						Ug/L	
039516	Polychlorinated biphenyls						Ug/L	
039080	Pronamide						Ug/L	
077007	Propionitrile						Ug/L	
034469	Pyrene						Ug/L	
077545	Safrole						Ug/L	
039760	Silvex; 2,4,5-TP						Ug/L	
077128	Styrene						Ug/L	
000745	Sulfide						Ug/L	
039740	2,4,5-Trichlorophenoxyacetic acid						Ug/L	

OAK HAMMOCK, CLASS I LANDFILL

PARAMETER MONITORING REPORT

Rule 62-701.510(8)(c)&(d)

WACS Report Type: ANNLC

Annual Leachate Monitoring (Page 9 of 9)

WACS_FACILITY 89544 SAMPLE DATE _____

WACS_WELL _____ ANALYSIS DATE _____

MONITORING_SITE_NUM _____

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	PRESERVATIVES ADDED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
077734	1,2,4,5-Tetrachlorobenzene						Ug/L	
077562	1,1,1,2-Tetrachloroethane						Ug/L	
034516	1,1,2,2-Tetrachloroethane						Ug/L	
034475	Tetrachloroethene						Ug/L	
077770	2,3,4,6-Tetrachlorophenol						Ug/L	
034010	Toluene						Ug/L	
077142	o-Toluidine						Ug/L	
039400	Toxaphene						Ug/L	
034551	1,2,4-Trichlorobenzene						Ug/L	
034506	1,1,1-Trichloroethane						Ug/L	
034511	1,1,2-Trichloroethane						Ug/L	
039180	Trichloroethene						Ug/L	
034488	Trichlorofluoromethane						Ug/L	
077687	2,4,5-Trichlorophenol						Ug/L	
034621	2,4,6-Trichlorophenol						Ug/L	
077443	1,2,3-Trichloropropane						Ug/L	
073652	0,0,0-Triethyl phosphorothioate						Ug/L	
073653	sym-Trinitrobenzene						Ug/L	
077057	Vinyl Acetate						Ug/L	
039175	Vinyl Chloride						Ug/L	
034020	Xylenes						Ug/L	

Submitted to:

Florida Department of
Environmental Protection

1ST SEMI-ANNUAL WATER QUALITY MONITORING REPORT

Oak Hammock Disposal Facility
Osceola County, Florida

Prepared for

Omni Waste

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Project Number FQ0638
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TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

SECTION 1

1. INTRODUCTION

1.1 Terms of Reference

This report documents the implementation of the Water Quality Monitoring Plan (Plan) for the Oak Hammock Disposal Facility (OHDF). The Plan was prepared as a part of the OHDF permit application. The requirements for executing the Plan are presented in Exhibit I of the permit to construct and operate Phase 1 of the OHDF (Permit Numbers SC49-0199726-001 and SO49-0199726-002) issued by the Florida Department of Environmental Protection (FDEP) on 18 October 2002. This report presents the results for the first semi-annual water quality (groundwater, surface water and leachate) sampling event conducted between 20 July 2004 and 05 August 2004.

This report was prepared on behalf of Omni Waste of Osceola County (Omni) by Mr. Kirk E. Wills of GeoSyntec Consultants (GeoSyntec). In accordance with GeoSyntec's peer review procedures, Mr. Donald J. Strickland, P.G. and Mr. Kenneth W. Cargill P.E. reviewed this report.

1.2 Overview

The Plan and Exhibit I describe a water quality monitoring program at the OHDF with the intent to: (i) measure and report groundwater and surface water conditions for the monitoring network; (ii) monitor the groundwater flow direction; (iii) monitor the groundwater and surface water quality on a semi-annual basis; and (iv) monitor leachate on an annual basis. The first semi-annual water quality monitoring has been completed. This report includes presentation and discussions of the sample locations, sampling procedures, laboratory analyses, field data measurements and analytical results, groundwater level measurements, groundwater flow direction, leachate sampling, and surface water quality monitoring. In addition, this report includes a comparison of the analytical results of this sampling event to applicable Groundwater Cleanup Target Levels (GWCTLS) as promulgated in Chapter 62-777, Florida Administrative Code.

1.3 Site Description

The OHDF is located in eastern Osceola County, Florida, west of highway U.S. 441, and approximately 6.5 miles south of Holopaw. The facility includes a Class I landfill, which is linked to highway U.S. 441 by a 2.86-mile access road. The OHDF site comprises a total of approximately 2,179 acres. The landfill footprint at build-out is approximately 264 acres and consists of a total of 21 landfill cells that provide available

waste capacity for a period of approximately 30 years. The first five-year construct and operate permit is referenced as Phase 1 and includes up to four landfill cells (Cells 1 through 4), in the northern part of the landfill at build-out and covering approximately 52 acres. For monitoring purposes, the OHDF was given the Water Assurance Compliance System (WACS) facility identification number 89544.

SECTION 2

2. MONITORING WELL DETAILS

2.1 Well Layout and Construction

Forty five (45) groundwater monitoring wells were installed in fifteen (15) clusters (MW-1 through MW-15) around the perimeter of the Phase 1 development area. Monitoring well clusters were located such that the spacing between well clusters was no greater than 500 ft, in accordance with the FDEP permit requirements. Vertically, three (3) groundwater monitoring wells were installed across the water table to monitor: (i) upper limit of the surfical aquifer below the ground surface identified as A-zone (shallow) wells; (ii) lower limit of the upper surficial aquifer above the intermediate clay layer identified as C-zone (deep) wells; and (iii) an intermediate depth between the shallow and deep wells identified as B-zone (intermediate) wells.

A layout depicting the location of groundwater monitoring wells and previously installed piezometers is included as Figures 1A and 1B. As shown, groundwater monitoring well clusters MW-1 through MW-13 were installed along the top outer edge of the landfill perimeter berm. The ground surface at the location of the wells in the perimeter berm is at approximately Elevation 92 feet (NGVD, 1929). Groundwater monitoring well clusters MW-14 and MW-15 were installed along the berm at the southern limit of the Phase 1 development at approximately Elevation 84 feet (NGVD, 1929). The location, in Florida state plane coordinates, and elevation (in NGVD29 datum) was measured by Johnston Surveying, Inc. of Kissimmee, Florida, a registered land surveyor.

Wells were constructed with 2-in diameter schedule 40 PVC casing. The well screens were 10-ft in length with #6-slot (0.006-in.). A 30/45 graded silica sand was placed around the screen to a height of 2 to 3 ft. above the top of the screen. A filter seal of 30/65 graded silica sand was placed above the sand filter around the screen. The remaining annular space from the top of the fine sand filter seal to the existing ground surface was grouted using a tremie pipe with a cement/bentonite mixture containing no more than 5 percent bentonite by dry weight. The PVC well casings were extended approximately 2.5 to 3 ft above the existing ground surface. Surface completion consisted of a protective steel casing with a lockable cover set in a concrete pad. Each well was provided with a well cap, padlock, and an identification label. A summary of the monitoring well construction details are presented in Table 1.

2.2 Turbidity Issues

As discussed in the baseline water quality report, the formation around the screened intervals consists primarily of a fine, brown to dark brown, silty sand. Due to the subsurface formation properties, fine-grained and colloidal material are able to pass through the sand filter pack in many wells, primarily in the B-zone and C-zone wells. Most of the intermediate and deep wells had turbidity values in excess of the 20-NTU criterion even after extended well development and the removal of multiple well volumes of water.

The difficulty in attaining the desired turbidity criterion was discussed at a meeting between GeoSyntec and FDEP on 12 January 2004. In accordance with these discussions, it was agreed to collect field-filtered (1-micron) and unfiltered samples for metals analyses for any sample with a turbidity value greater than 20 NTU. The data generated by the dual sampling is expected to help demonstrate: (i) what effect turbidity may have on metal analyses (i.e., compare total and dissolved metal concentrations); and (ii) whether groundwater samples with turbidities greater than 20 NTU showed higher concentrations of metals than those samples with turbidities less than 20 NTU. The overall goal is to establish a site-specific turbidity level at which samples could be collected in future sampling events without the need of collecting filtered samples.

SECTION 3

3. MONITORING WELL SAMPLING

3.1 Sampling Locations and Procedures

All forty five (45) monitoring wells installed as part of the Phase 1 monitoring plan were sampled. Low-flow sampling techniques were used for groundwater sample collection. Except for the turbidity considerations as described in the previous section, all groundwater sampling was performed in accordance with the current FDEP Standard Operating Procedures (SOP's) for groundwater sampling. Additionally for quality control (QC) purposes, two sample duplicates and two equipment rinsate samples were collected and analyzed.

Peristaltic pumps were used to purge and sample all A-zone (shallow) groundwater monitoring wells. Stainless steel submersible pumps were used to purge and sample all B-zone (intermediate) and C-zone (deep) groundwater wells. New tubing (silicone and/or polyethylene) was used at each monitoring well.

Prior to collection of groundwater samples, the monitoring wells were purged using a peristaltic or submersible pump. During the purging process, a YSI 650 MDS water quality meter with flow-through cell was used to monitor the following field parameters: pH; temperature; specific conductance; turbidity; Eh; and dissolved oxygen. Field parameters were recorded on sample collection forms, which are contained in Appendix A. When the field parameters stabilized to within the acceptable tolerances required by the FDEP SOP, well purging was considered complete and groundwater samples were collected. For wells where the turbidity was not less than 20 NTU, turbidity stability was established by purging at least 5 well volumes and observing variations in the turbidity measurements. For these wells, once the turbidity had stabilized and all other parameters conformed to the guidance set forth in the FDEP SOP's, samples were collected. A non-filtered and field-filtered (1-micron) metals sample was collected for each monitoring well where turbidity measurements exceeded the 20 NTU level.

For monitoring wells where peristaltic pumps were used, sample aliquots for analysis for extractable organics were collected using a FDEP-approved Teflon purge-and-trap assembly. The purge-and-trap assembly was decontaminated between wells in accordance with the FDEP SOP. Volatile organic compound (VOC) sample vials were filled by removing the down well tubing, disconnecting the tubing from the water quality meter flow through cell, and reversing the flow direction on the peristaltic pump.

For the monitoring wells that were purged and sampled with a submersible pump, all sample aliquots were filled directly from the down-well tubing.

The calibration of the water quality monitoring instruments was checked on a daily basis. Instruments were re-calibrated as necessary. Water quality instrument calibration forms are presented in Appendix B. Samples were placed in coolers and packed with bagged ice for transport to the analytical laboratory. Chain-of-Custody forms were completed and accompanied the samples to the analytical laboratory. Chain-of-Custody forms have been included in Appendix C of this report. Trip blank samples accompanied all sample coolers with VOC samples. Temperature blanks were packed in each sample cooler.

3.2 Sample Analysis

Samples were analyzed by Severn Trent Laboratories of Tampa, Florida (STL-Tampa) in accordance with the National Environmental Laboratory Accreditation Conference (NELAC) standards. STL-Tampa holds certification from the Florida Department of Health (FDOH) for the analytical test methods used for this project and is certified in the State of Florida for analysis of environmental samples. A copy of STL-Tampa's Florida Department of Health certificate is in included in Appendix D.

Groundwater samples were analyzed by STL-Tampa for total ammonia as nitrogen (N), chlorides, nitrate, total dissolved solids (TDS), iron, mercury, sodium, and the 40 CFR, Part 258 Appendix I parameters. Other required parameters (i.e., pH; temperature; specific conductance; turbidity; Eh; and dissolved oxygen) were field measured during collection of the groundwater samples.

SECTION 4

4. ANALYTICAL RESULTS

4.1 Field Parameters

Table 2 provides a summary of the final measured field parameter values and field data for this semi-annual sampling event.

4.2 Groundwater Monitoring Wells

The analytical results for groundwater samples collected are written on a compact disc (CD) in Appendix E. Analytical results on the CD are presented in the FDEP electronic validator spreadsheet format. Analytical results have been summarized in Table 3 to show all parameters where a constituent concentration was reported above the method detection limit. Any parameter exceeding GWCTLs has been highlighted. It should be noted that different analytical laboratories were used for the baseline water quality monitoring event and this 1st semi-annual water quality monitoring event. STL-Tampa was able to achieve lower method detection limits than the previous analytical laboratory, Environmental Conservation Laboratories (ENCO), were capable of achieving. The method detection limits achieved varied for the constituents analyzed. The following discussion regarding groundwater quality is organized by analytical methods.

40 CFR, Part 258, Appendix I Volatile Compounds (Method 8260)

One (1) well (MW-1A) contained a detectable concentration of acetone (13 µg/L). This concentration is below the GWCTL of 700 µg/L.

One (1) well (MW-4A) contained a detectable concentration of ethyl benzene (1.8 µg/L). This concentration is below the GWCTL of 30 µg/L.

Seventeen (17) wells (MW-1A, 1B, 2A, 2B, 3A, 3B, 4A, 5A, 5B, 6A, 7B, 9B, 10A, 12B, 13A, 14A and 14B) contained detectable concentrations of toluene ranging from 1.27µg/L to 190 µg/L. The GWCTL for toluene is 40 µg/L. Of these wells, two (2) wells (MW-4A and 5A) exceeded the GWCTL (190 and 170 µg/L, respectively). It is noted that low levels of toluene were also detected in several Direct Push (DP) samples that were collected during the initial hydrogeologic investigation associated with the permit application.

Total Metals (Method 6010 and Method 7470 for Mercury)

Four (4) wells (MW-4C, 7A, 7C and 11A) contained detectable concentrations of arsenic ranging from 0.01 and 0.027 mg/L, which are below the GWCTL of 0.05 mg/L. Arsenic was not detected in any dissolved (filtered) metals samples.

Forty one (41) wells (all except MW-5A, 6A, 9A, 11A) contained detectable concentrations of barium ranging between 0.011 and 1.5 mg/L, which are below the GWCTL of 2 mg/L. Barium was detected in twenty one (21) dissolved (filtered) metals samples.

One (1) well (MW-7A) contained a detectable concentration of beryllium (0.0051 mg/L) which is greater than the GWCTL of 0.004 mg/L. Beryllium was not detected in any dissolved (filtered) metals samples.

Fifteen (15) wells (MW-1B, 3B, 3C, 4C, 6B, 7A, 7B, 7C, 8B, 9B, 11B, 12B, 13B, 14B and 14C) contained detectable concentrations of chromium ranging from 0.01 to 0.17 mg/L. Three (3) wells (MW-4C, 7A and 7B) contained concentrations of chromium, 0.13, 0.17, and 0.12 mg/L, respectively, which are slightly greater than the GWCTL of 0.1 mg/L. Chromium was detected in only one (1) dissolved (filtered) metals samples. MW-7B had a detectable concentration of chromium (0.02 mg/L), which is below the GWCTL.

One (1) well (MW-12B) contained a detectable concentration of copper (0.023 mg/L). This concentration is below the GWCTL of 1 mg/L. Copper was not detected in any dissolved (filtered) metals samples.

Iron was detected in all forty five (45) monitoring wells in concentrations ranging between 0.64 and 33 mg/L, which are all above the GWCTL of 0.3 mg/L. Iron was detected in all the dissolved (filtered) metals samples. Concentrations of iron ranged between 0.35 and 3.3 mg/L in the dissolved (filtered) metals samples, which are all above the GWCTL.

Fifteen (15) wells (MW-1B, 2B, 3B, 4C, 6B, 7A, 7B, 7C, 8B, 9B, 11B, 12B, 13B, 14B and 15B) contained detectable concentrations of lead ranging between 0.0052 and 0.13 mg/L. Ten (10) wells (MW-3B, 4C, 6B, 7A, 7B, 7C, 8B, 9B, 11B and 12B) contained concentrations of lead, which are greater than the GWCTL of 0.015 mg/L. Only one well (MW-7B) had a detectable concentration of lead (0.015 mg/L) in the dissolved (filtered) metals sample. This concentration is equal to the GWCTL of 0.015 mg/L.

Six (6) wells (MW-3B, 7A, 7B, 7C, 8B, and 12B) contained detectable concentrations of mercury ranging between 0.00021 and 0.00062 mg/L, which are below

the GWCTL of 0.002 mg/L. Mercury was not detected in any dissolved (filtered) metals samples.

Five (5) wells (MW-3B, 7A, 7B, 7C and 11B) contained detectable concentrations of selenium ranging between 0.012 and 0.025 mg/L, which are below the GWCTL of 0.05 mg/L. Selenium was not detected in any dissolved (filtered) metals samples.

Sodium was detected in all forty five (45) monitoring wells in concentrations ranging between 4.1 and 21 mg/L, which are all below the GWCTL of 160 mg/L. Sodium was detected in all the dissolved (filtered) metals samples. Concentrations of sodium ranged between 4.1 and 22 mg/L in the dissolved (filtered) metals samples, which are all below the GWCTL.

Seventeen (17) wells (MW-1B, 2B, 3B, 3C, 4C, 6B, 7A, 7B, 7C, 8B, 9B, 11B, 12B, 13B, 14B, 14C and 15B) contained detectable concentrations of vanadium ranging between 0.012 and 0.27 mg/L. Nine wells (MW-3B, 4C, 7A, 7B, 7C, 8B, 9B, 11B and 12B) had vanadium concentrations above the GWCTL of 0.049 mg/L. Only one well (MW-7B) had a detectable concentration of vanadium (0.03 mg/L) in the dissolved (filtered) metals sample. This concentration is below the GWCTL.

Five (5) wells (MW-3B, 4C, 7A, 7B and 14A) contained detectable concentrations of zinc ranging between 0.021 and 0.045 mg/L, which are below the GWCTL of 5.0 mg/L. Zinc was not detected in any dissolved (filtered) metals samples.

Anions by IC (Method 325.3)

Chloride was detected in all forty five (45) monitoring wells. Concentrations varied between 5.4 mg/L to 30 mg/L. All reported concentrations are less than the GWCTL for chloride of 250 mg/L.

Ammonia-N (Method 350.1)

Ammonia-N was detected in all forty five (45) monitoring wells. Concentrations varied between 0.08 mg/L and 3.6 mg/L. All reported concentrations are less than the GWCTL for ammonia-N of 2.8 mg/L except for MW-5A, where the reported concentration is 3.6 mg/L.

Total Dissolved Solids (TDS) (Method 160.1)

TDS concentrations ranging between 42 and 1,800 mg/L were reported for all forty five (45) monitoring wells. Seven (7) monitoring wells (MW-3B, 7A, 7B, 7C, 8B, 11B and 12B) have TDS concentrations greater than the GWCTL of 500 mg/L.

4.3 Data Validation

All analyses were performed within the method specified holding times.

Two equipment blanks were collected using the same equipment set up used for collection of the groundwater samples. One equipment blank was collected using the peristaltic pump set up, and the other was collected from the stainless steel submersible pump set up. De-ionized water supplied by STL-Tampa was pumped through the peristaltic tubing and analyzed for the same parameters as the groundwater samples. Extractable organic samples were collected through the decontaminated purge and trap assembly. All constituents analyzed for were non-detect for all analyses performed.

A total of two blind field duplicates were collected: Dup-01 was a blind duplicate of sample MW-14B; Dup-02 was a blind duplicate of sample MW-15C. A review of the analytical data shows that the blind duplicate sample data is very close to the original sample data for most variables.

The primary quality control parameters found to be out of acceptable quality control limits were due to matrix interferences in the samples and abundance of the target analyte in samples. Based on the detection summary for these constituents, it does not appear that these anomalies had any demonstrable impact on data quality.

4.4 Impact of Turbidity on Metals Concentrations

As discussed in Section 2.2 of this report, extended well development was not successful in clearing up the majority of the B-zone (intermediate) and C-zone (deep) groundwater monitoring wells.

Turbidity levels were less than the FDEP guidance of 20 NTU for twenty (20) of the forty five (45) wells sampled. A review of the analytical results for these twenty low-turbidity wells shows that only arsenic, barium, iron, sodium and zinc were reported above the method detection limits. Arsenic was detected in one well (MW-11A) at a concentration of 0.027 mg/L. Zinc was detected in one well (MW-14A) at a concentration of 0.026 mg/L. Iron and sodium were reported for all twenty (20) monitoring wells in concentrations comparable to those reported for samples with turbidity levels greater than 20 NTU. Analytical results for metals and the corresponding

turbidity levels for the twenty wells sampled with turbidity levels less than 20 NTU are presented in Table 4.

Table 5 presents the total metals (unfiltered) and dissolved metals (filtered) analytical results for the twenty five (25) wells that were sampled with turbidity levels greater than 20 NTU. Turbidity values for the total metals samples varied between 26 and 1,321 NTU. A review of the analytical results for these twenty five (25) wells shows that only beryllium, chromium, copper, lead, mercury, selenium, vanadium were detected in samples with turbidity levels greater than 20 NTU and not in samples with turbidities less than 20 NTU. With the exception of iron, no other metal had a reported value above the GWCTL in an unfiltered sample with a reported concentration above the GWCTL in its comparison filtered sample.

From review of the data, beryllium, chromium, copper, lead, mercury, vanadium and zinc were the metals for which a greater number of detections were made in the unfiltered samples than the filtered samples. Eight (8) of the twenty five (25) wells for which unfiltered and filtered samples were collected showed no difference in the type of metals detected, and the analytical results showed little deviation in the concentration levels. The turbidity levels for these 8 wells ranged between 26 and 65 NTU. Beryllium was detected in one (1) unfiltered sample (MW-7A) at a concentration of 0.0051 mg/L and not in the corresponding filtered sample. Chromium was detected in fifteen (15) unfiltered samples, ranging between 0.01 and 0.17 mg/L. Chromium was only detected in one filtered sample (MW-7B) at a concentration of 0.02 mg/L. Copper was detected in one (1) unfiltered sample (MW-12B) at a concentration of 0.023 mg/L and not in the corresponding filtered sample. Lead was detected in fifteen (15) unfiltered samples, ranging between 0.0072 and 0.13 mg/L and not in the corresponding filtered samples. Mercury was detected in six (6) unfiltered samples at concentrations ranging between 0.00021 and 0.00062 mg/L and not in the corresponding filtered samples. Selenium was detected in five (5) unfiltered samples at concentrations ranging between 0.012 and 0.025 mg/L and not in the corresponding filtered samples. Sixteen (16) filtered samples showed a detection of vanadium where the corresponding unfiltered samples were non-detect. Vanadium was only detected in one filtered sample (MW-7B) at a concentration of 0.03 mg/L. Zinc was detected in four (4) unfiltered samples at concentrations ranging between 0.021 and 0.045 mg/L and not in the corresponding filtered samples.

Filtering of the samples did not appear to have a significant impact on barium, iron, and sodium concentrations. The presence and concentrations of these metals were comparable between the unfiltered and filtered samples. Chromium, lead, mercury, selenium, vanadium and zinc appear to be the metals most affected by turbidity levels greater than 20 NTU.

The turbidity levels for the 17 well samples where the presence of certain metals was somewhat different between the unfiltered and filtered samples (MW-1B, 2B, 3B, 3C, 4C, 6B, 7A, 7B, 7C, 8B, 9B, 11B, 12B, 13B, 14B, 14C and 15B) ranged between 66 and 1,321 NTU.

SECTION 5

5. GROUNDWATER LEVEL MEASUREMENTS AND FLOW DIRECTION

5.1 Field Measurements

Groundwater level measurements were obtained on 23 July 2004, from the 45 monitoring wells installed as part of the Phase I groundwater monitoring program, as well as the 25 piezometers installed between October 2001 and February 2002 as part of the hydrogeologic investigation conducted during landfill permitting activities. All groundwater levels measurements were made within an approximate 4-hr period. The groundwater level measurements from the monitoring wells and piezometers are presented in Table 6.

It should be noted that as part of the site hydrogeological investigation a total of 27 piezometers were installed. Two piezometers located at the northern part of the site were decommissioned and abandoned on 3 October 2003 for construction of the first disposal cell. The piezometers were grouted in place from the bottom up using a tremie pipe. The protective steel casing and well casing were cut-off approximately 2 ft below the ground surface. The two piezometers were decommissioned by Ambient Technologies, Inc. (ATI) of St. Petersburg, Florida. GeoSyntec monitored the decommissioning activities.

5.2 Water level Contours

The water level contour maps prepared from groundwater level measurements for the three upper surficial aquifer zones (i.e., A-zone, B-zone and C-zone) are presented in Figures 2, 3 and 4.

Based on a review of the groundwater level elevation data collected from the A-zone or shallow monitoring well network, the direction of the horizontal component of groundwater flow is predominantly east-northeast toward Bull Creek. Likewise, the data for the B-zone or intermediate monitoring well network also shows that the general horizontal component of groundwater flow is predominantly east-northeast. The predominant direction of the horizontal component of flow in the C-zone or deep monitoring well network is east-northeast as well. The average horizontal hydraulic gradient in all three zones is approximately $1E^{-3}$ ft/ft.

Comparison of water levels between the A, B and C wells shows a similar vertical gradient ($1E^{-3}$ ft/ft). These gradients are consistent with the regional gradient in the upper surficial aquifer and indications of an interconnected, sluggish flow regime in the saturated zone above the intermediate confining units.

SECTION 6

6.0 SURFACE WATER SAMPLING

6.1 Sampling Locations and Procedures

Two (2) surface water sampling locations established during the initial hydrogeological investigation were selected by FDEP for routine water quality monitoring. Surface water samples will be collected only if there is flow in Bull Creek. The surface water sampling locations are shown on Figure 5.

Collection of surface water samples commenced at the downstream monitoring station (SW-3) followed by the upstream monitoring location (SW-4). Bull Creek was visually observed to ensure creek was flowing at the time of sampling. Surface water samples were collected from the approximate center of Bull Creek. An YSI 650 MDS water quality meter was used to measure field parameters including temperature, pH, dissolved oxygen, specific conductance, Eh, and turbidity at each sampling location. Surface water samples were collected in accordance with FDEP surface water sampling SOP.

6.2 Sample Analyses

Surface water samples were analyzed by STL-Tampa in accordance with the NELAC standards for unionized ammonia, total hardness as $CaCO_3$, total organic carbon, chlorides, nitrate, total dissolved solids (TDS), total suspended solids (TSS), biological oxygen demand, chemical oxygen demand, total nitrogen as N, nitrate as N, total phosphates as P, chlorophyll A, iron, mercury, and the 40 CFR, Part 258 Appendix I parameters. Other required parameters (i.e., pH; temperature; specific conductance; turbidity; Eh; and dissolved oxygen) were field measured during collection of the groundwater samples.

6.3 Field Measurements and Analytical Results

Table 7 provides a summary of the final field parameter values and field data measured for the surface water samples.

The analytical results for the surface water samples collected are presented on a CD in Appendix E. Analytical results are presented in the FDEP electronic validator spreadsheet format. Analytical results have been summarized in Table 7 to show all parameters where a constituent concentration was reported above the method detection limit and any parameter exceeding Surface Water Quality Criteria (SWQC) Class III concentrations.

The dissolved oxygen concentrations at SW-3 and 4 were both below the SWQC for a Class III water body minimum of 5 mg/L. The pH concentrations at SW-3 and 4 were both lower than the SWQC range of 6-8.5 standard units.

SECTION 7

7.0 LEACHATE SAMPLING

7.1 Sampling Location and Procedures

In accordance with the permit requirements, a leachate sample is to be collected from each disposal cell on an annual basis. Currently, only Cell 1 has been constructed. The leachate sample for this first semi-annual sampling event was collected from the flexible storage containers in the leachate storage area. This leachate sample collected as part of the first semi-annual sampling event fulfills the sampling requirement for the year 2004.

The leachate sample was collected from the leachate flexible storage container number 3. The leachate sample was collected from the storage pond instrument riser pipe using a peristaltic pump. An YSI 650 MDS water quality meter was used to measure field parameters including temperature, pH, dissolved oxygen, specific conductance, Eh, and turbidity. The leachate sample was collected in accordance with FDEP SOP.

7.2 Sample Analyses

The leachate sample was analyzed by STL-Tampa in accordance with the NELAC standards for total ammonia-N, bicarbonate, chlorides, nitrate, total dissolved solids (TDS), iron, mercury, sodium and the 40 CFR, Part 258 Appendix II parameters. Other required parameters (i.e., pH; temperature; specific conductance; turbidity; Eh; and dissolved oxygen) were field measured during collection of the groundwater samples.

7.3 Field Measurements and Analytical Results

Table 8 provides a summary of the final field parameter values and field data measured for the leachate sample.

The analytical results for the leachate sample are presented on a CD in Appendix E. Analytical results are presented in the FDEP electronic validator spreadsheet format. Analytical results have been summarized in Table 8 to show all parameters where a constituent concentration was reported above the method detection limit. It should be noted that the leachate from the Oak Hammock Disposal Facility is removed from the site for treatment.

TABLES

Table 1 (Initial)

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM, WACS FACILITY ID: 89455
FIRST SEMI-ANNUAL WATER QUALITY SAMPLING EVENT

Summary of Monitoring Well Construction Details

Well Designation	WACS ID	Date Installed	Well Diameter (inches)	Screen Type	Top of Casing Elevation, TOC (feet)	Total Depth (feet BTOC)	Screen Setting				Sand Pack (feet BTOC)	Fine-Grained Sand Seal (feet BTOC)
							(feet BTOC)		(feet Elevation)			
							Top	Bottom	Top	Bottom		
MW-1A	19900	9-Dec-03	2	PVC	95.12	22.98	13.0	23.0	82.1	72.1	10.6	8.2
MW-2A	19903	10-Dec-03	2	PVC	95.21	22.60	12.6	22.6	82.6	72.6	10.3	8.9
MW-3A	19906	11-Dec-03	2	PVC	94.64	22.77	12.8	22.8	81.9	71.9	10.4	9.0
MW-4A	19909	12-Dec-03	2	PVC	95.48	23.13	13.1	23.1	82.4	72.4	10.8	9.4
MW-5A	19912	24-Nov-03	2	PVC	95.32	22.48	12.5	22.5	82.8	72.8	10.1	9.1
MW-6A	19915	25-Nov-03	2	PVC	94.72	22.56	12.6	22.6	82.2	72.2	10.6	8.6
MW-7A	19918	26-Nov-03	2	PVC	95.48	23.31	13.3	23.3	82.2	72.2	10.3	9.3
MW-8A	19921	5-Dec-03	2	PVC	94.67	22.50	12.5	22.5	82.2	72.2	10.2	8.6
MW-9A	19924	4-Dec-03	2	PVC	94.66	22.37	12.4	22.4	82.3	72.3	10.0	8.6
MW-10A	19927	3-Dec-03	2	PVC	96.25	22.14	12.1	22.1	84.1	74.1	9.8	7.6
MW-11A	19930	3-Dec-03	2	PVC	93.56	22.84	12.8	22.8	80.7	70.7	10.5	9.1
MW-12A	19933	2-Dec-03	2	PVC	95.10	23.00	13.0	23.0	82.1	72.1	10.7	9.3
MW-13A	19936	8-Dec-03	2	PVC	95.19	22.53	12.5	22.5	82.7	72.7	10.2	7.7
MW-14A	19939	1-Dec-03	2	PVC	85.88	15.42	5.4	15.4	80.5	70.5	4.4	4.1
MW-15A	19942	2-Dec-03	2	PVC	85.92	22.99	13.0	23.0	72.9	62.9	10.0	9.0
MW-1B	19901	9-Dec-03	2	PVC	95.00	47.89	37.9	47.9	57.1	47.1	35.6	33.1
MW-2B	19904	10-Dec-03	2	PVC	95.17	48.32	38.3	48.3	56.9	46.9	36.0	34.6
MW-3B	19907	11-Dec-03	2	PVC	94.68	47.62	37.6	47.6	57.1	47.1	35.3	33.9
MW-4B	19910	12-Dec-03	2	PVC	95.18	47.43	37.4	47.4	57.8	47.8	35.1	33.5
MW-5B	19913	24-Nov-03	2	PVC	95.30	47.10	37.1	47.1	58.2	48.2	34.4	32.7
MW-6B	19916	25-Nov-03	2	PVC	94.60	47.40	37.4	47.4	57.2	47.2	34.9	33.5
MW-7B	19919	26-Nov-03	2	PVC	95.27	47.46	37.5	47.5	57.8	47.8	34.5	33.5
MW-8B	19922	5-Dec-03	2	PVC	94.58	49.58	39.6	49.6	55.0	45.0	37.1	35.6
MW-9B	19925	4-Dec-03	2	PVC	94.63	49.11	39.1	49.1	55.5	45.5	36.8	35.3
MW-10B	19928	3-Dec-03	2	PVC	96.23	48.26	38.3	48.3	58.0	48.0	35.9	33.9
MW-11B	19931	2-Dec-03	2	PVC	93.59	47.86	37.9	47.9	55.7	45.7	35.5	34.0
MW-12B	19934	1-Dec-03	2	PVC	95.01	48.96	39.0	49.0	56.1	46.1	36.6	35.1
MW-13B	19937	8-Dec-03	2	PVC	95.12	47.17	37.2	47.2	58.0	48.0	34.8	33.4
MW-14B	19940	1-Dec-03	2	PVC	85.80	37.76	27.8	37.8	58.0	48.0	25.4	23.1
MW-15B	19943	2-Dec-03	2	PVC	85.65	48.40	38.4	48.4	47.3	37.3	35.4	34.4

Table 1 (Continued)

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM, WACS FACILITY ID: 89455
FIRST SEMI-ANNUAL WATER QUALITY SAMPLING EVENT

Summary of Monitoring Well Construction Details

Well Designation	WACS ID	Date Installed	Well Diameter (inches)	Screen Type	Top of Casing Elevation, TOC (feet)	Total Depth (feet BTOC)	Screen Setting				Sand Pack (feet BTOC)	Fine-Grained Sand Seal (feet BTOC)
							(feet BTOC)		(feet Elevation)			
							Top	Bottom	Top	Bottom		
MW-1C	19902	9-Dec-03	2	PVC	95.18	75.22	65.2	75.2	30.0	20.0	62.9	61.4
MW-2C	19905	10-Dec-03	2	PVC	95.32	68.42	58.4	68.4	36.9	26.9	56.1	53.7
MW-3C	19908	11-Dec-03	2	PVC	94.66	68.68	58.7	68.7	36.0	26.0	56.3	54.8
MW-4C	19911	12-Dec-03	2	PVC	95.39	72.52	62.5	72.5	32.9	22.9	61.2	59.6
MW-5C	19914	24-Nov-03	2	PVC	95.39	73.00	63.0	73.0	32.4	22.4	60.7	58.7
MW-6C	19917	25-Nov-03	2	PVC	94.58	73.16	63.2	73.2	31.4	21.4	60.2	57.7
MW-7C	19920	25-Nov-03	2	PVC	94.93	73.33	63.3	73.3	31.6	21.6	60.3	59.3
MW-8C	19923	5-Dec-03	2	PVC	94.50	73.90	63.9	73.9	30.6	20.6	61.6	59.8
MW-9C	19926	4-Dec-03	2	PVC	94.54	73.76	63.8	73.8	30.8	20.8	61.4	59.4
MW-10C	19929	3-Dec-03	2	PVC	96.36	73.71	63.7	73.7	32.7	22.7	61.4	60.0
MW-11C	19932	2-Dec-03	2	PVC	93.65	73.35	63.4	73.4	30.3	20.3	61.0	59.6
MW-12C	19935	1-Dec-03	2	PVC	95.10	73.57	63.6	73.6	31.5	21.5	60.2	58.7
MW-13C	19938	8-Dec-03	2	PVC	95.04	72.99	63.0	73.0	32.1	22.1	60.7	58.2
MW-14C	19941	26-Nov-03	2	PVC	85.92	62.23	52.2	62.2	33.7	23.7	48.9	45.9
MW-15C	19944	1-Dec-03	2	PVC	85.89	72.57	62.6	72.6	23.3	13.3	59.6	58.6

Table 2 (Initial)

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM, WACS FACILITY ID: 89455
FIRST SEMI-ANNUAL WATER QUALITY SAMPLING EVENT

Summary of Final Field Parameter Results and Field Data

Monitoring Well	pH (Standard Units)	Temperature (°C)	Specific Conductance (mS/cm)	Turbidity (NTUs)	Eh (MV)	DO (mg/l)	Purging Method
MW-1A	3.51	26.17	0.187	0.8	167.2	0.50	Peristaltic Pump
MW-2A	2.69	27.57	0.141	2.4	284.6	0.88	Peristaltic Pump
MW-3A	3.79	26.63	0.249	1.0	168.1	0.38	Peristaltic Pump
MW-4A	4.87	25.18	0.188	32.7	17.7	0.36	Peristaltic Pump
MW-5A	4.40	26.12	0.138	51.5	180.7	1.23	Peristaltic Pump
MW-6A	5.07	30.90	0.090	1.5	43.6	0.34	Peristaltic Pump
MW-7A	4.78	29.41	0.120	1321.0	196.7	1.17	Peristaltic Pump
MW-8A	4.71	29.40	0.159	5.6	-1.1	0.56	Peristaltic Pump
MW-9A	3.59	29.17	0.120	14.0	258.1	1.03	Peristaltic Pump
MW-10A	4.66	27.74	0.147	12.5	68.4	0.40	Peristaltic Pump
MW-11A	4.58	26.93	0.271	8.1	153.4	1.41	Peristaltic Pump
MW-12A	4.32	28.70	0.115	1.5	184.7	0.09	Peristaltic Pump
MW-13A	4.79	27.32	0.164	0.0	111.9	0.24	Peristaltic Pump
MW-14A	4.24	27.00	0.201	4.8	97.1	0.27	Peristaltic Pump
MW-15A	4.27	28.30	0.109	4.5	142.4	0.37	Peristaltic Pump
MW-1B	5.01	23.70	0.062	258.0	51.8	0.64	Submersible Pump
MW-2B	4.73	23.61	0.056	85.3	99.1	0.19	Submersible Pump
MW-3B	5.05	23.80	0.090	695.0	48.8	0.20	Submersible Pump
MW-4B	4.69	24.11	0.140	28.0	56.1	0.12	Submersible Pump
MW-5B	4.53	24.22	0.062	5.4	29.1	0.15	Submersible Pump
MW-6B	5.27	24.76	0.088	378.0	-11.1	0.16	Submersible Pump
MW-7B	5.23	23.87	0.106	1184.0	-7.3	0.09	Submersible Pump
MW-8B	3.34	24.25	0.086	720.0	228.0	0.34	Submersible Pump
MW-9B	4.91	24.19	0.082	130.0	86.6	0.27	Submersible Pump
MW-10B	4.56	23.95	0.068	26.3	67.8	0.31	Submersible Pump
MW-11B	5.47	23.70	0.225	625.0	-3.3	0.24	Submersible Pump
MW-12B	5.29	24.05	0.112	1178.0	30.8	0.17	Submersible Pump
MW-13B	4.69	23.68	0.077	161.5	66.2	0.21	Submersible Pump
MW-14B	4.77	23.73	0.056	66.4	120.3	1.32	Submersible Pump
MW-15B	3.21	23.83	0.078	207.0	207.0	0.26	Submersible Pump

Table 2 (continued)

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM, WACS FACILITY ID: 89455
FIRST SEMI-ANNUAL WATER QUALITY SAMPLING EVENT

Summary of Final Field Parameter Results and Field Data

Monitoring Well	pH (Standard Units)	Temperature (°C)	Specific Conductance (mS/cm)	Turbidity (NTUs)	Eh (MV)	DO (mg/l)	Purging Method
MW-1C	5.20	23.89	0.068	43.0	52.7	0.17	Submersible Pump
MW-2C	5.05	23.88	0.065	65.3	80.5	0.18	Submersible Pump
MW-3C	5.23	23.96	0.085	130.0	32.4	0.17	Submersible Pump
MW-4C	5.56	24.53	0.143	1130.0	7.2	0.22	Submersible Pump
MW-5C	5.04	24.34	0.097	14.4	27.4	0.20	Submersible Pump
MW-6C	4.90	23.99	0.060	35.0	58.5	0.23	Submersible Pump
MW-7C	5.29	23.86	0.103	1184.0	-4.2	0.10	Submersible Pump
MW-8C	4.90	24.09	0.068	7.0	78.2	0.19	Submersible Pump
MW-9C	4.96	24.16	0.078	0.0	72.4	0.22	Submersible Pump
MW-10C	4.84	24.01	0.075	48.6	59.1	0.27	Submersible Pump
MW-11C	5.26	23.91	0.161	15.5	17.4	0.27	Submersible Pump
MW-12C	4.71	24.07	0.065	8.5	74.6	0.21	Submersible Pump
MW-13C	4.72	23.87	0.079	5.0	65.8	0.21	Submersible Pump
MW-14C	5.35	23.82	0.100	156.0	67.1	0.34	Submersible Pump
MW-15C	5.37	24.05	0.095	5.4	37.5	0.15	Submersible Pump

TABLE 3 (initial)

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM, WACS FACILITY ID: 89455
FIRST SEMI-ANNUAL WATER QUALITY SAMPLING EVENT
Analytical Results with Constituent Concentrations Reported Above the Method Detection Limit and Comparison to FL-GWCTLS

APPENDIX I VOLATILE COMPOUNDS	METHOD	UNITS	GWCTLS	MW-1A	MW-1B	MW-1C	MW-2A	MW-2B	MW-2C	MW-3A	MW-3B	MW-3C	MW-4A	MW-4B	MW-4C	MW-5A	MW-5B
Acetone	8260	ug/L	700	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	8260	ug/L	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND
Toluene	8260	ug/L	40	1.9	4.8	ND	1.8	4.5	ND	7.6	2.9	ND	190	ND	ND	170	8.8
TOTAL METALS	**METHOD**																
Arsenic	6010	mg/L	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.015	ND	ND
Barium	6010	mg/L	2.00	0.018	0.10	0.047	0.015	0.071	0.07	0.018	0.35	0.10	0.011	0.035	0.62	ND	0.027
Beryllium	6010	mg/L	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	6010	mg/L	0.100	ND	0.016	ND	ND	ND	ND	ND	0.061	0.015	ND	ND	0.13	ND	ND
Copper	6010	mg/L	1.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	6010	mg/L	0.30	4.00	2.60	0.69	1.90	1.40	1.70	5.80	8.50	3.10	2.90	1.50	17.00	2.00	0.64
Lead	6010	mg/L	0.015	ND	0.012	ND	ND	0.0052	ND	ND	0.043	ND	ND	ND	0.019	ND	ND
Mercury	7470	mg/L	0.002	ND	ND	ND	ND	ND	ND	ND	0.00032	ND	ND	ND	ND	ND	ND
Selenium	6010	mg/L	0.050	ND	ND	ND	ND	ND	ND	ND	0.012	ND	ND	ND	ND	ND	ND
Sodium	6010	mg/L	160	9.5	4.1	4.1	10.0	4.9	4.8	18.0	7.0	5.2	7.2	15.0	8.8	5.2	4.3
Vanadium	6010	mg/L	0.049	ND	0.018	ND	ND	0.014	ND	ND	0.081	0.018	ND	ND	0.12	ND	ND
Zinc	6010	mg/L	5.0	ND	ND	ND	ND	ND	ND	ND	0.023	ND	ND	ND	0.045	ND	ND
DISSOLVED METALS	**METHOD**																
Barium, filtered	6010	mg/L	2.0	NA	ND	0.014	NA	0.029	0.015	NA	ND	0.015	0.012	0.013	0.012	ND	NA
Chromium, Filtered	6010	mg/L	0.100	NA	ND	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA
Iron, filtered	6010	mg/L	0.30	NA	0.50	0.43	NA	0.97	1.00	NA	0.62	1.40	3.00	1.20	0.81	1.90	NA
Lead, filtered	6010	mg/L	0.015	NA	ND	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA
Sodium, filtered	6010	mg/L	160	NA	4.1	4.1	NA	5.0	4.9	NA	7.3	5.2	7.8	15.0	9.2	5.1	NA
Vanadium, filtered	6010	mg/L	0.049	NA	ND	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA
ANIONS BY IC	**METHOD**																
Chloride	325.3	mg/L	250	23.0	7.1	10.0	25	7.3	6.4	41	14	9.8	18	30	9.8	18	7.3
MISCELLANEOUS	**METHOD**																
Ammonia-N	350.1	mg/L	2.80	1.20	0.13	0.11	0.62	0.12	0.11	2.90	0.12	0.11	2.70	0.09	0.11	3.60	0.13
Total Dis. Solids	160.1	mg/L	500	94	190	70	50	110	74	160	530	130	120	84	490	120	42

Red = Exceedence
Green = Detection
ND = Non Detect
NA = Not Analyzed

TABLE 3 (continued)

OAK HAMMOCK DISPOSAL FACILITY
GROUNDWATER MONITORING PROGRAM, WACS FACILITY ID: 89455
FIRST SEMI-ANNUAL WATER QUALITY SAMPLING EVENT
Analytical Results with Constituent Concentrations Reported Above the Method Detection Limit and Comparison to FL-GWCTLS

APPENDIX I VOLATILE COMPOUNDS	METHOD	UNITS	MW-5C	MW-6A	MW-6B	MW-6C	MW-7A	MW-7B	MW-7C	MW-8A	MW-8B	MW-8C	MW-9A	MW-9B	MW-9C	MW-10A	MW-10B	MW-10C
Acetone	8260	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	8260	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	8260	ug/L	ND	1.8	ND	ND	ND	8.5	ND	ND	ND	ND	ND	8.1	ND	24	ND	ND
TOTAL METALS	**METHOD**																	
Arsenic	6010	mg/L	ND	ND	ND	ND	0.016	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	6010	mg/L	0.047	ND	0.20	0.097	1.50	0.72	0.80	0.016	0.29	0.029	ND	0.18	0.026	0.011	0.035	0.048
Beryllium	6010	mg/L	ND	ND	ND	ND	0.0051	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	6010	mg/L	ND	ND	0.03	ND	0.17	0.12	0.086	ND	0.057	ND	ND	0.036	ND	ND	ND	ND
Copper	6010	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	6010	mg/L	1.90	1.60	4.80	1.80	19.00	17.00	10.00	2.40	6.60	1.70	1.90	5.80	1.30	2.00	0.97	1.50
Lead	6010	mg/L	ND	ND	0.024	ND	0.13	0.1	0.06	ND	0.039	ND	ND	0.028	ND	ND	ND	ND
Mercury	7470	mg/L	ND	ND	ND	ND	0.00062	0.00047	0.00026	ND	0.00021	ND	ND	ND	ND	ND	ND	ND
Selenium	6010	mg/L	ND	ND	ND	ND	0.023	0.025	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	6010	mg/L	6.6	9.1	6.6	4.2	10.0	8.8	8.0	12.0	5.7	4.8	4.3	7.5	5.6	6.5	6.4	5.8
Vanadium	6010	mg/L	ND	ND	0.043	ND	0.27	0.18	0.14	ND	0.12	ND	ND	0.051	ND	ND	ND	ND
Zinc	6010	mg/L	ND	ND	ND	ND	0.022	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DISSOLVED METALS	**METHOD**																	
Barium, filtered	6010	mg/L	NA	NA	0.021	0.065	0.013	0.12	0.043	NA	0.019	NA	NA	0.021	NA	NA	0.012	0.014
Chromium, Filtered	6010	mg/L	NA	NA	ND	ND	ND	0.02	ND	NA	ND	NA	NA	ND	NA	NA	ND	ND
Iron, filtered	6010	mg/L	NA	NA	0.95	1.40	0.35	3.30	0.89	NA	0.84	NA	NA	0.96	NA	NA	0.60	0.81
Lead, filtered	6010	mg/L	NA	NA	ND	ND	ND	0.015	ND	NA	ND	NA	NA	ND	NA	NA	ND	ND
Sodium, filtered	6010	mg/L	NA	NA	6.5	4.2	11.0	8.5	8.5	NA	5.8	NA	NA	7.5	NA	NA	6.4	5.8
Vanadium, filtered	6010	mg/L	NA	NA	ND	ND	ND	0.03	ND	NA	ND	NA	NA	ND	NA	NA	ND	ND
ANIONS BY IC	**METHOD**																	
Chloride	325.3	mg/L	12	12	5.9	5.4	12	12	10	29	10	7.5	15	12	9.4	15	9.8	8
MISCELLANEOUS	**METHOD**																	
Ammonia-N	350.1	mg/L	0.08	0.18	0.11	0.11	0.19	0.20	0.15	0.14	0.12	0.11	2.30	0.11	0.11	2.70	0.10	0.12
Total Dis. Solids	160.1	mg/L	56	60	270	44	1800	1000	590	76	600	50	82	260	50	110	58	50

Red = Exceedence
Green = Detection
ND = Non Detect
NA = Not Analyzed

TABLE 3 (continued)

OAK HAMMOCK DISPOSAL FACILITY
GROUNDWATER MONITORING PROGRAM, WACS FACILITY ID: 89455
FIRST SEMI-ANNUAL WATER QUALITY SAMPLING EVENT
Analytical Results with Constituent Concentrations Reported Above the Method Detection Limit and Comparison to FL-GWCTLS

APPENDIX I VOLATILE COMPOUNDS	METHOD	UNITS	MW-11A	MW-11B	MW-11C	MW-12A	MW-12B	MW-12C	MW-13A	MW-13B	MW-13C	MW-14A	MW-14B	MW-14C	MW-15A	MW-15B	MW-15C	DUP-01	DUP-02
Acetone	8260	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	8260	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	8260	ug/L	ND	ND	ND	ND	1.7	ND	1.8	ND	ND	7.1	2.1	ND	ND	ND	ND	1.7	ND
TOTAL METALS	**METHOD**																		
Arsenic	6010	mg/L	0.027	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	6010	mg/L	ND	0.31	0.015	0.014	0.31	0.041	0.014	0.059	0.028	0.015	0.083	0.11	0.011	0.07	0.012	0.087	0.012
Beryllium	6010	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	6010	mg/L	ND	0.04	ND	ND	0.044	ND	ND	0.011	ND	ND	0.01	0.012	ND	ND	ND	0.012	ND
Copper	6010	mg/L	ND	ND	ND	ND	0.023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	6010	mg/L	33.00	5.50	0.76	1.20	6.80	1.20	6.20	2.30	0.92	5.00	1.90	2.20	2.50	1.40	0.69	2.20	0.65
Lead	6010	mg/L	ND	0.024	ND	ND	0.038	ND	ND	0.0074	ND	ND	0.0089	ND	ND	0.0072	ND	0.01	ND
Mercury	7470	mg/L	ND	ND	ND	ND	0.00021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	6010	mg/L	ND	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	6010	mg/L	14.0	21.0	9.3	8.0	9.0	4.9	13.0	7.1	6.7	17.0	5.5	6.2	9.4	7.4	5.9	5.6	5.6
Vanadium	6010	mg/L	ND	0.056	ND	ND	0.053	ND	ND	0.012	ND	ND	0.012	0.015	ND	0.013	ND	0.014	ND
Zinc	6010	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.026	ND	ND	ND	ND	ND	ND	ND
DISSOLVED METALS	**METHOD**																		
Barium, filtered	6010	mg/L	NA	0.015	NA	NA	0.019	NA	NA	0.012	NA	NA	0.036	0.015	NA	ND	NA	0.025	NA
Chromium, Filtered	6010	mg/L	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	ND	NA	ND	NA	ND	NA
Iron, filtered	6010	mg/L	NA	0.49	NA	NA	0.64	NA	NA	0.91	NA	NA	1.00	0.73	NA	0.29	NA	1.00	NA
Lead, filtered	6010	mg/L	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	ND	NA	ND	NA	ND	NA
Sodium, filtered	6010	mg/L	NA	22.0	NA	NA	8.9	NA	NA	7.4	NA	NA	5.4	6.3	NA	7.1	NA	5.7	NA
Vanadium, filtered	6010	mg/L	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	ND	NA	ND	NA	ND	NA
ANIONS BY IC	**METHOD**																		
Chloride	325.3	mg/L	29	26	20	13	8.9	8.4	25	13	12	27	8.6	11	15	9	9	8.6	9
MISCELLANEOUS	**METHOD**																		
Ammonia-N	350.1	mg/L	2.10	0.15	0.11	0.19	0.12	0.14	0.35	0.11	0.13	0.36	0.11	0.13	0.10	0.13	0.11	0.11	0.11
Total Dis. Solids	160.1	mg/L	180	530	100	48	930	52	90	86	82	110	130	120	56	140	54	130	50

Red = Exceedence
Green = Detection
ND = Non Detect
NA = Not Analyzed

TABLE 4

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM, WACS FACILITY ID: 89455
FIRST SEMI-ANNUAL WATER QUALITY SAMPLING EVENT
Total Metals Results for Groundwater Samples with Turbidity Levels < 20 NTU

		MW-1A	MW-2A	MW-3A	MW-5A	MW-8A	MW-9A	MW-10A	MW-11A	MW-12A	MW-13A	MW-14A	MW-15A	MW-5B	MW-5C	MW-8C	MW-9C	MW-11C	MW-12C	MW-13C	MW-15C
	TURBIDITY (NTU)	0.8	2.4	1	1.5	5.6	14	12.5	8.1	1.5	0	4.8	4.5	5.4	14.4	7	0	15.5	8.5	5	5.4
METAL	ANALYTICAL METHOD																				
Antimony	7041	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	6010	ND	ND	ND	ND	ND	ND	ND	0.027	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	6010	0.018	0.015	0.018	ND	0.016	ND	0.011	ND	0.014	0.014	0.015	0.011	0.027	0.047	0.029	0.026	0.015	0.041	0.028	0.012
Beryllium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	6010	4.00	1.90	5.80	1.60	2.40	1.90	2.00	33.00	1.20	6.20	5.00	2.50	0.64	1.90	1.70	1.30	0.76	1.20	0.92	0.69
Lead	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	7470	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	6010	9.5	10.0	18.0	9.1	12.0	4.3	6.5	14.0	8.0	13.0	17.0	9.4	4.3	6.6	4.8	5.6	9.3	4.9	6.7	5.9
Thallium	7841	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tin	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.026	ND	ND	ND	ND	ND	ND	ND	ND	ND

Red = Exceedence
Green = Detection

TABLE 5

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM, WACS FACILITY ID: 89455
FIRST SEMI-ANNUAL WATER QUALITY SAMPLING EVENT

Summary of Total and Dissolved (Filtered) Metals Concentrations for Samples with Turbidities > 20 NTU

		MW-1B	MW-1C	MW-2B	MW-2C	MW-3B	MW-3C	MW-4A	MW-4B	MW-4C	MW-5A	MW-6B	MW-6C	MW-7A	MW-7B	MW-7C	MW-8B	MW-9B	MW-10B	MW-10C	MW-11B	MW-12B	MW-13B	MW-14B	MW-14C	MW-15B
TURBIDITY (NTU)		258	43	85	65	695	130	33	28	1130	52	378	35	1321	1184	1184	720	130	26	49	625	1178	162	66	156	207
Arsenic	6010	ND	ND	ND	ND	ND	ND	ND	ND	0.015	ND	ND	ND	0.016	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	6010	0.1	0.047	0.071	0.07	0.35	0.1	0.011	0.035	0.62	ND	0.2	0.097	1.5	0.72	0.8	0.29	0.18	0.035	0.048	0.31	0.31	0.059	0.083	0.11	0.07
Beryllium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0051	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	6010	0.016	ND	ND	ND	0.061	0.015	ND	ND	0.13	ND	0.03	ND	0.17	0.12	0.086	0.057	0.036	ND	ND	0.04	0.044	0.011	0.01	0.012	ND
Copper	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.023	ND	ND	ND	ND
Iron	6010	2.6	0.69	1.4	1.7	8.5	3.1	2.9	1.5	17	2	4.8	1.8	19	17	10	6.6	5.8	0.97	1.5	5.5	6.8	2.3	1.9	2.2	1.4
Lead	6010	0.012	ND	0.0052	ND	0.043	ND	ND	ND	0.019	ND	0.024	ND	0.13	0.1	0.06	0.039	0.028	ND	ND	0.024	0.038	0.0074	0.0089	ND	0.0072
Mercury	7470	ND	ND	ND	ND	0.00032	ND	ND	ND	ND	ND	ND	ND	0.00062	0.00047	0.00026	0.00021	ND	ND	ND	ND	0.00021	ND	ND	ND	ND
Selenium	6010	ND	ND	ND	ND	0.012	ND	ND	ND	ND	ND	ND	ND	0.023	0.025	0.014	ND	ND	ND	ND	0.013	ND	ND	ND	ND	ND
Sodium	6010	4.1	4.1	4.9	4.8	7	5.2	7.2	15	8.8	5.2	6.6	4.2	10	8.8	8	5.7	7.5	6.4	5.8	21	9	7.1	5.5	6.2	7.4
Vanadium	6010	0.018	ND	0.014	ND	0.081	0.018	ND	ND	0.012	ND	0.043	ND	0.27	0.18	0.14	0.12	0.051	ND	ND	0.056	0.053	0.012	0.012	0.015	0.013
Zinc	6010	ND	ND	ND	ND	0.023	ND	ND	ND	0.045	ND	ND	ND	0.022	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic, filtered	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium, filtered	6010	ND	0.014	0.029	0.015	ND	0.015	0.012	0.013	0.012	ND	0.021	0.065	0.013	0.12	0.043	0.019	0.021	0.012	0.014	0.015	0.019	0.012	0.036	0.015	ND
Beryllium, filtered	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Filtered	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron, filtered	6010	0.5	0.43	0.97	1	0.62	1.4	3	1.2	0.81	1.9	0.95	1.4	0.35	3.3	0.89	0.84	0.96	0.6	0.81	0.49	0.64	0.91	1	0.73	0.29
Mercury, filtered	7470	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium, filtered	6010	4.1	4.1	5	4.9	7.3	5.2	7.8	15	9.2	5.1	6.5	4.2	11	8.5	8.5	5.8	7.5	6.4	5.8	22	8.9	7.4	5.4	6.3	7.1
Vanadium, filtered	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Red = Exceedence
Green = Detection

Table 6 (initial)

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM
WACS FACILITY ID: 89455

Groundwater Level Measurements

Site Name: Oak Hammock Disposal Facility
Location: Osceola County, Florida
Date: 23-Jul-2004

Sampling Personnel: Clarence Jones, James Ramirez
Field Conditions: Clear and Sunny, Low 90's

Well ID	Time	TOC Elevation	Depth to Water (ft)	Well Depth (ft)	GW Elevation	Field Observations
DP-1	Piezometer Abandoned 03 October 2003					
DP-2	Piezometer Abandoned 03 October 2003					
DP-3	12:01	82.22	1.99	53.58	80.23	
DP-4	11:49	82.24	1.51	18.27	80.73	
DP-5	14:22	84.13	3.36	53.69	80.77	
DP-6	14.23	84.23	3.50	18.55	80.73	
DP-7	12:47	82.63	4.70	18.60	77.93	
DP-8	12:48	82.78	4.87	53.78	77.91	
DP-9	13:00	81.58	4.45	53.74	77.13	
DP-10	13:01	81.59	4.55	18.59	77.04	
DP-11	12:21	84.06	3.90	18.60	80.16	
DP-12	12:20	84.18	4.00	53.62	80.18	
DP-13	12:52	83.09	5.37	18.59	77.72	
DP-14	13:39	81.97	5.07	18.61	76.90	
DP-15	13:38	81.98	4.98	53.69	77.00	
DP-16	13:13	82.57	4.95	18.51	77.62	
DP-17	13:12	82.58	4.93	53.71	77.65	
DP-18	14:34	84.38	4.71	52.91	79.67	
DP-19	14:35	84.34	4.75	18.38	79.59	
DP-20	13:59	83.07	2.59	18.35	80.48	
DP-21	14:01	83.00	2.59	53.68	80.41	
DP-22	13:45	81.00	4.94	18.59	76.06	
DP-23	13:46	81.27	4.38	53.76	76.89	
DP-24	13:21	82.22	4.55	18.61	77.67	
SZ-1	12:48	82.43	4.74	80.18	77.69	
SZ-2	14:02	83.16	5.14	75.42	78.02	
SZ-3	13:44	81.27	4.10	78.85	77.17	
MW-1A	10:40	95.12	13.97	22.98	81.15	
MW-1B	10:42	95.00	13.69	47.89	81.31	
MW-1C	10:45	95.18	13.92	74.41	81.26	
MW-2A	10:51	95.21	13.80	22.60	81.41	
MW-2B	10:53	95.17	13.77	48.05	81.40	
MW-2C	10:55	95.32	13.97	68.40	81.35	
MW-3A	10:58	94.64	13.31	22.77	81.33	
MW-3B	11:00	94.68	13.35	47.67	81.33	
MW-3C	11:02	94.66	13.38	68.78	81.28	

Table 6 (continued)

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM
WACS FACILITY ID: 89455

Groundwater Level Measurements

Site Name:	Oak Hammock Disposal Facility	**Sampling Personnel:**	Clarence Jones, James Ramirez
Location:	Osceola County, Florida	**Field Conditions:**	Clear and Sunny, Low 90's
Date:	23-Jul-2004		

Well ID	Time	TOC Elevation	Depth to Water (ft)	Well Depth (ft)	GW Elevation	Field Observations
MW-4A	11:04	95.48	14.55	23.13	80.93	
MW-4B	11:06	95.18	14.25	47.43	80.93	
MW-4C	11:08	95.39	14.45	72.62	80.94	
MW-5A	11:10	95.32	14.85	22.50	80.47	
MW-5B	11:12	95.30	15.03	47.10	80.27	
MW-5C	11:14	95.39	15.44	73.04	79.95	
MW-6A	11:16	94.72	15.45	22.56	79.27	
MW-6B	11:18	94.60	15.43	47.50	79.17	
MW-6C	11:20	94.58	15.56	73.10	79.02	
MW-7A	11:22	95.48	15.67	23.31	79.81	
MW-7B	11:24	95.27	15.85	47.99	79.42	
MW-7C	11:26	94.93	16.06	73.35	78.87	
MW-8A	11:28	94.67	14.84	22.50	79.83	
MW-8B	11:30	94.58	14.77	49.30	79.81	
MW-8C	11:32	94.50	15.07	73.75	79.43	
MW-9A	11:34	94.66	15.09	22.37	79.57	
MW-9B	11:36	94.63	15.12	49.10	79.51	
MW-9C	11:38	94.54	15.28	74.72	79.26	
MW-10A	11:35	96.25	16.47	22.14	79.78	
MW-10B	11:36	96.23	16.50	48.25	79.73	
MW-10C	11:34	96.36	16.90	74.93	79.46	
MW-11A	11:30	93.56	13.95	22.84	79.61	
MW-11B	11:29	93.59	14.05	47.86	79.54	
MW-11C	11:31	93.65	14.10	73.61	79.55	
MW-12A	11:19	95.10	15.01	23.00	80.09	
MW-12B	11:18	95.01	15.10	48.98	79.91	
MW-12C	11:17	95.10	15.30	73.58	79.80	
MW-13A	11:10	95.19	15.38	22.53	79.81	
MW-13B	11:08	95.12	15.30	47.25	79.82	
MW-13C	11:07	95.04	15.40	73.00	79.64	
MW-14A	10:58	85.88	5.10	15.42	80.78	
MW-14B	10:55	85.80	4.99	37.75	80.81	
MW-14C	10:56	85.92	5.17	62.25	80.75	
MW-15A	10:50	85.92	4.75	22.99	81.17	
MW-15B	10:51	85.65	4.47	48.40	81.18	
MW-15C	10:52	85.89	4.84	72.57	81.05	

Table 7

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM WACS FACILITY ID: 89455
FIRST SEMI-ANNUAL WATER QUALITY SAMPLING EVENT
Summary of Surface Water Field Measurements and Analytical Results

Parameter	Analytical Method	Units	FL-SWQC Class III	Monitoring Location	
				SW-3	SW-4
Iron	6010	mg/L	1	0.73	0.59
Total Dis. Solids	160.1	mg/L	-	26	ND
Ammonia-N	350.3	mg/L	-	0.069	0.062
Unionized Ammonia-NH3	Draft	mg/L	0.02	ND	ND
BOD	405.1	mg/L	-	ND	ND
COD	410.4	mg/L	-	99	64
Hardness (as CaCo3)	130.2	mg/L	-	8.1	6.2
Nitrate-Nitrite-N	300	mg/L	-	ND	ND
Total Kjeldahl-N	351.2	mg/L	-	0.78	0.78
Total Nitrogen	351.2/353.1	mg/L	-	0.78	0.78
Total Phoshorus	365.4	mg/L	-	0.038	0.045
TOC	415.1	mg/L	-	25	23
TSS	160.2	mg/L	-	ND	ND
Chlorophyll A	SM 10200H	mg/m3	-	3.5	1.1
Dissolved Oxygen	Field Measurement	mg/L	5	4.03	3.19
pH	Field Measurement	std units	6-8.5	4.37	3.72
Temperature	Field Measurement	°C	-	27.65	27.72
Specific Conductance	Field Measurement	uS/cm	< 50% above background or 1275, whichever is >	0.046	0.043
Turbidity	Field Measurement	ntu	< 29 above background	1.4	1.2
Water Elevation (1)	Field Measurement	ft	-	74.74	78.82

Note (1): Surface Water Elevations referenced to NGVD 1929

Table 8

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM WACS FACILITY ID:89455
FIRST SEMI-ANNUAL WATER QUALITY SAMPLING EVENT

Summary of Leachate Field Measurements and Analytical Results

Parameter	Analytical Method	Units	Concentration
Temperature	Field Measurement	°C	28.22
pH	Field Measurement	Std Units	4.88
Conductivity	Field Measurement	mS/cm	0.478
Turbidity	Field Measurement	NTU	0
ORP	Field Measurement	mV	27.2
Dissolved Oxygen	Field Measurement	mg/L	0.99
Bicarbonate Alkalinity as $CaCO_3$	SM2320B	mg/L	37
Ammonia-N	350.3	mg/L	3.9
Chloride	325.3	mg/L	79
Sulfide	376.1	mg/L	4.2
TDS	160.1	mg/L	280
Barium	6010	mg/L	0.083
Iron	6010	mg/L	6.3
Sodium	6010	mg/L	38
Acetone	8260	ug/L	350
Benzene	8260	ug/L	2
Carbon Disulfide	8260	ug/L	1.7
1,1-Dichloroethane	8260	ug/L	1
1,2-Dichloroethane	8260	ug/L	1.9
2-Butanone (MEK)	8260	ug/L	1200
Methylene Chloride (Dichloromethane)	8260	ug/L	7.3
Toluene	8260	ug/L	5.2
Naphthalene	8270	ug/L	12
Cresol, m & p	8270	ug/L	130
Phenol	8270	ug/L	29
Diethylphthalate	8270	ug/L	10

FIGURES

Large Format Drawings

Scanned Separately

OAK HAMMOCK DISPOSAL FACILITY
WACS FACILITY ID 89455
"A"- ZONE (SHALLOW) WELLS - WATER LEVEL CONTOURS
FIGURE 2

LEGEND

MW-7A 81.5	MONITORING WELL GROUNDWATER ELEVATION
DP-13 81.5	PIEZOMETER GROUNDWATER ELEVATION
	WATER LEVEL CONTOURS

* WATER LEVEL MEASUREMENTS FROM 23 JULY 2004 SITE WIDE SURVEY

500 250 0 500 1,000 1,500 Feet

1 inch equals 500 feet

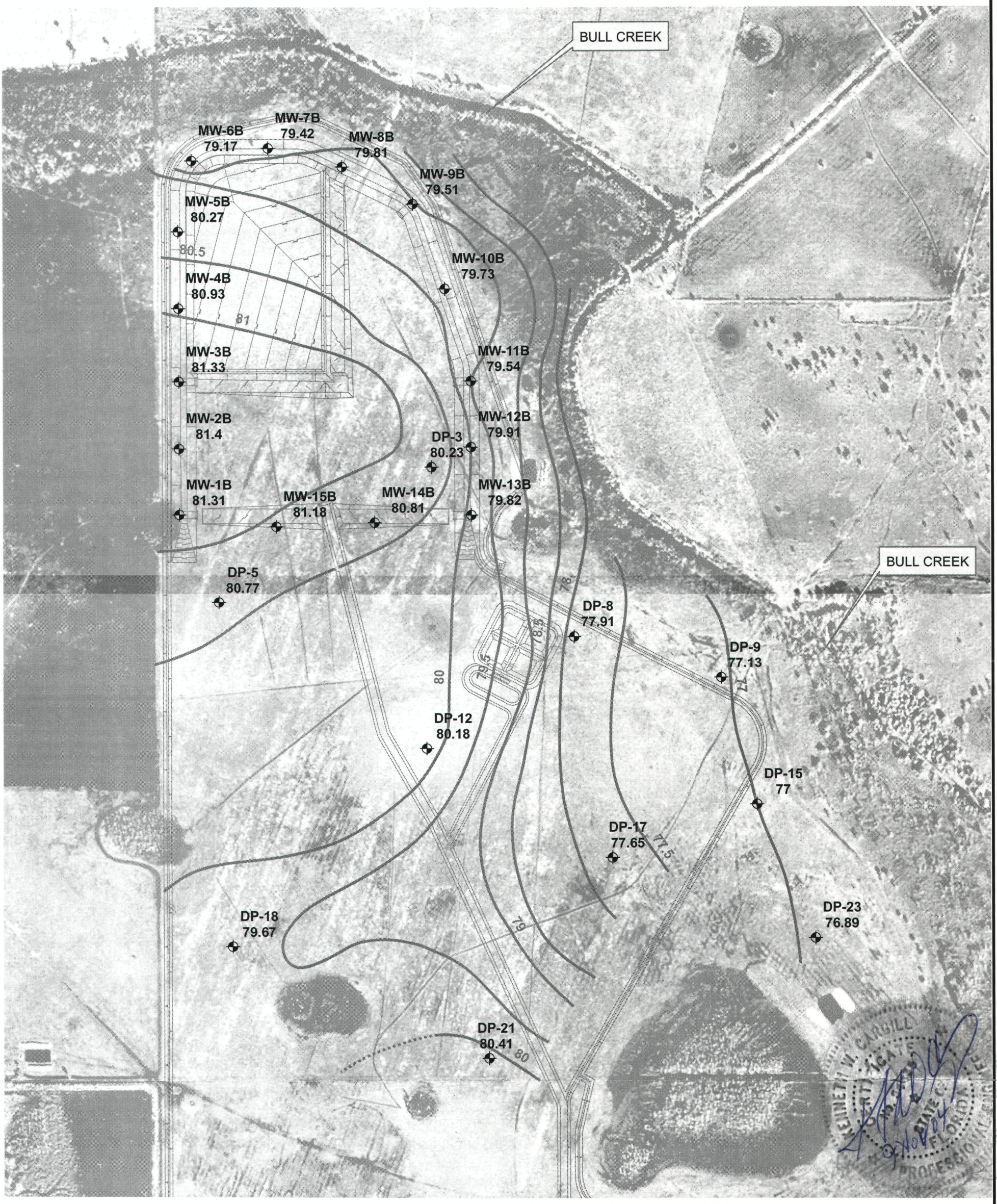
KENNETH W. CARGILL — STATE OF FLORIDA — PROFESSIONAL ENGINEER — NO. 54935

GEOSYNTEC CONSULTANTS

TAMPA, FLORIDA

FIGURE NO.	2
PROJECT NO.	FQ0638
FILE NO.	FQ0638F-0001.MXD

OAK HAMMOCK DISPOSAL FACILITY
WACS FACILITY ID 89455
"B"- ZONE (INTERMEDIATE) WELLS - WATER LEVEL CONTOURS
FIGURE 3



LEGEND

MW-7B 78.4	MONITORING WELL GROUNDWATER ELEVATION
DP-18 80.97	PIEZOMETER GROUNDWATER ELEVATION
	WATER LEVEL CONTOURS

* WATER LEVEL MEASUREMENTS FROM 23 JULY 2004 SITE WIDE SURVEY

500 250 0 500 1,000 1,500 Feet

1 inch equals 500 feet

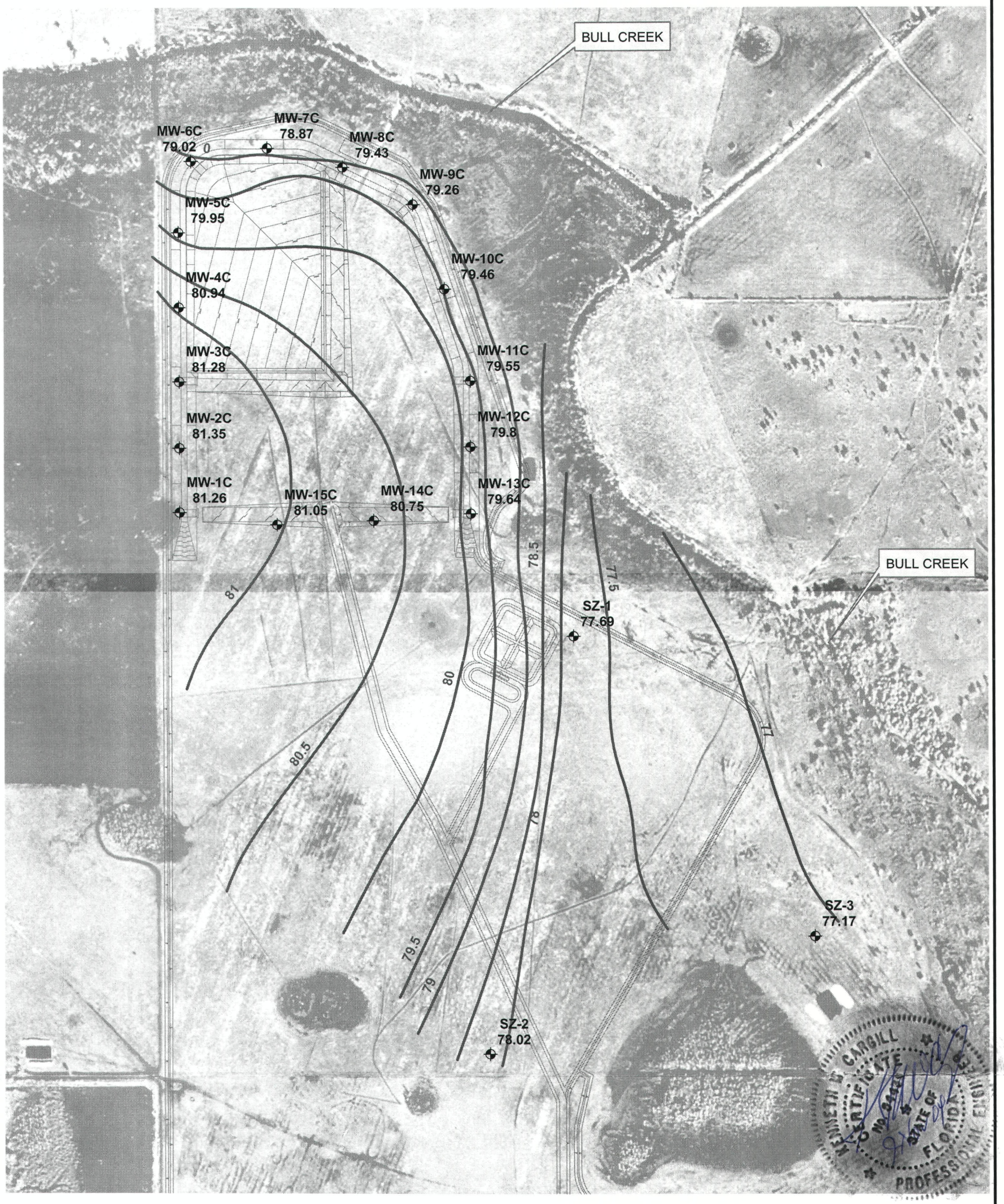
KENNETH W. CARGILL — STATE OF FLORIDA — PROFESSIONAL ENGINEER — 9 NOV 04

GeoSyntec Consultants

TAMPA, FLORIDA

FIGURE NO.	3
PROJECT NO.	FQ0638
FILE NO.	FQ0638F-0002.MXD

OAK HAMMOCK DISPOSAL FACILITY
WACS FACILITY ID 89455
"C"- ZONE (DEEP) WELLS - WATER LEVEL CONTOURS
FIGURE 4



LEGEND

MW-7C 78.30	MONITORING WELL GROUNDWATER ELEVATION
SZ-1 77.08	PIEZOMETER WELL GROUNDWATER ELEVATION
	WATER LEVEL CONTOURS

* WATER LEVEL MEASUREMENTS FROM 23 JULY 2004 SITE WIDE SURVEY

500 250 0 500 1,000 1,500 Feet

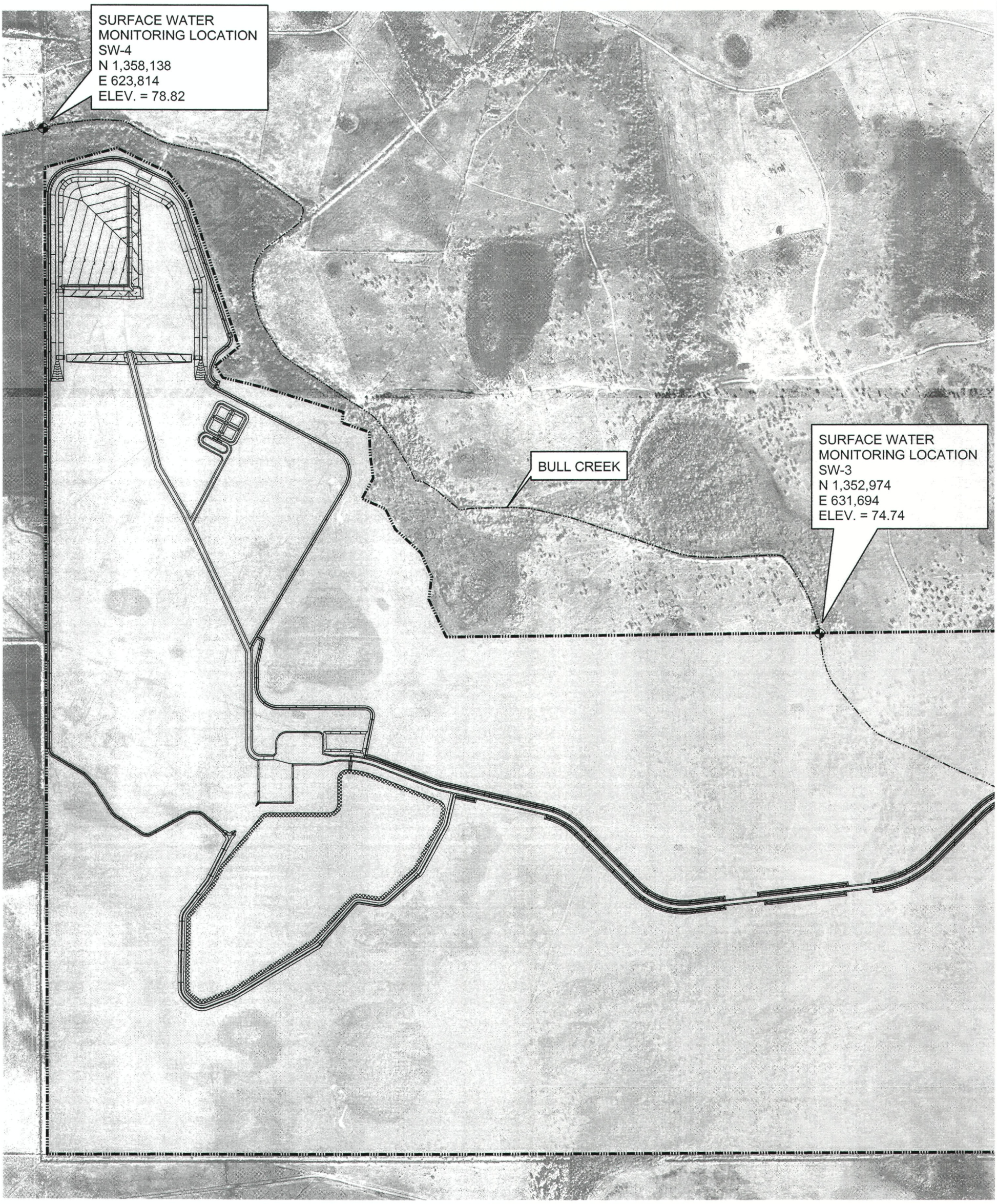
1 inch equals 500 feet

GeoSyntec Consultants

TAMPA, FLORIDA

FIGURE NO.	4
PROJECT NO.	FQ0638
FILE NO.	FQ0638F-0003.MXD

OAK HAMMOCK DISPOSAL FACILITY
WACS FACILITY ID 89455
SURFACE WATER MONITORING LOCATIONS
FIGURE 5



WATER LEVEL MEASUREMENTS FROM 23 JULY 2004 SITE WIDE SURVEY

1,000 500 0 1,000 2,000 3,000 Feet

1 inch equals 1,000 feet

GEOSYNTEC CONSULTANTS

TAMPA, FLORIDA

FIGURE NO.	5
PROJECT NO.	FQ0638
FILE NO.	FQ0638F-0005.MXD

APPENDIX A

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 26 July 2004

Station (Well No.): MW-1A WACS ID: 19900 Performed by: JR, KW

Field Conditions/Observations: P. Cloudy,

Well Inspection:

Well Type: __ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): well locked and Found in good Condition.

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: well Allowed to STABILIZE
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.13 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.98 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 14.20 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: .07 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): 1 ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.98 - 14.13) x .16 = 1.41 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

(5 well Volumes = 7.04 gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* .0625 in. x *(D)* .0625 in. x *(L)* 400 ft.) + *(Fc)* .25 gal = .25 gal

3 Well/Equipment Volumes = 1.77 gallons Purge Method: X Pump ___ Bailer Type: peristaltic

Purge Rate: .10 gpm Purged Volume (actual): 5.5 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: .10 gpm

Sample ID: MW-1A Time Collected: 1245

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: JR, KW

Sample Appearance (color, odor, etc.): none detected, color clear

Final Values: Temp: 26.17 °C pH: 3.51 Conductivity: 0.187 mS/cm ORP: 167.2 mV

Salinity: / % Turbidity: 0.8 NTU DO: .50 mg/L Other:

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: APP I VOAs, EDB, DBCP, APP I METALS NH3, TL, CL, NO3,

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 2 250 ml plastic 2 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH 1

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7/26/04 Sampled By: JR, KW

Station (Well No.): MW-1A WACS ID: 19900 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): Geopump 2 (3938) Purge Rate: .10 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst (0614)

Time @ Start of Purging: 1145 Time @ End of Purging: 1255 Total Purging Time: 1.10 Depth of Pump or Intake Tubing: 18.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1215	3.0	3.0	26.22	3.48	0.194	1.8	117.2	.28	clear	14.31	
1220	.5	3.5	26.14	3.15	0.192	1.6	188.0	.49	clear	14.31	
1225	.5	4	25.83	3.46	0.190	1.9	167.9	.36	clear	14.31	
1230	.5	4.5	26.10	3.49	0.189	1.1	154.8	.38	clear	14.31	
1235	.5	5	26.20	3.47	0.188	1.7	165.6	.37	clear	14.31	
1240	.5	5.5	26.19	3.51	0.187	0.8	167.2	.50	clear	14.31	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-1A Time Collected: 1245 Comments: NO Filter

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7-29- 2004

Station (Well No.): MW-1B WACS ID: 19901 Performed by: C. TONGS

Field Conditions/Observations: SUNNY, TEMP IN MID. 80'S

Well Inspection:

Well Type: __ Flush Mount X Stick Up __ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): LOCKED GOOD CONDITION

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: CAP removed And Allowed to STABILIZE
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 13.50 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 47.89 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 14.50 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 1 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (47.89 - 13.50) x 0.16 = 5.50 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc 5 WELLS VOLUMES = 27.51
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* .0625 in. x *(D)* .0625 in. x *(L)* 55 ft.)+ *(Fc)* .25 gal = .25 gal

3 Well/Equipment Volumes = .77 gallons Purge Method: X Pump __ Bailer Type: GRUNDFOS REDI-PRO

Purge Rate: 1.5 gpm Purged Volume (actual): 54 gallons Purge Water Contained? __ Yes X No

Container Used: __ 55 Gallon Drum ___ Other (_____) Labeled: __ Yes ___ No

Sampling Method: __ Bailer __ Peristaltic Pump X Submersible Pump Sample Rate: 1.5 gpm

Sample ID: MW-1B Time Collected: 1245

QA Sample Collected (i.e., Blind Duplicate) __ Yes X No QA Sample ID: CJ, JR

Sample Appearance (color, odor, etc.): CLOUDY, NONE Detected

Final Values: Temp: 23.70 °C pH: 5.01 Conductivity: 0.062 mS/cm ORP: 51.8 mV

Salinity: ✓ % Turbidity: 258.7 NTU DO: 0.64 mg/L Other: _____

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: APPI VOA'S, APPI METALS NH3, TL, CL, NO3, TDS, EDB, DBCP

Sample Bottles Filled: 6 40 ml vials __ 1 liter amber glass 3 250 ml plastic 3 500 ml plastic __ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH 1

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier __ FedEx (Airbill No. _____) __ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FO 0638 Task: 01 Date: 7-29-04 Sampled By: CLARENCE JONES

Station (Well No.): MW-1B WACS ID: 19901 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) ___ Peristaltic

Pump (Make & Model): GRUNDFOS REDI-FLO (SERIAL # 2416679) Purge Rate: 1.5 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 1205 Time @ End of Purging: 1241 Total Purging Time: 36. min Depth of Pump or Intake Tubing: 42 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1225	30	30	23.68	5.08	0.068	469.7	45.5	0.49	Cloudy	13.50	
1235	15	45	~~28.6~~ 23.69	5.03	0.062	278.2	57.5	0.61	cloudy	13.61	
1238	4.5	49.5	23.67	5.04	0.061	273.8	53.9	0.65	cloudy	13.85	
1241	4.5	54	23.70	5.01	0.062	258.7	51.8	0.64	cloudy	14.50	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-1B Time Collected: 1245 Comments: TURB 1.4 NTUS W/FILTER (CHECKED TURB W/LAMOTTE METER)

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7/29/2004

Station (Well No.): MW-1C WACS ID: 19902 Performed by: James Ramirez

Field Conditions/Observations: SUNNY, ~~GOOD~~ ~~GOOD~~ TEMP. IN MID 80'S

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): LOCKED GOOD CONDITION

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 13.69 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 75.22 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 18.40 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 4.71 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (75.22 - 13.69) x 0.16 = 9.8 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

5 WELL VOLUMES = 49.2

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* .0625 in. x *(D)* .0625 in. x *(L)* 75 ft.)+ *(Fc)* .25 gal = .26 gal

3 Well/Equipment Volumes = .78 gallons Purge Method: X Pump ___ Bailer Type: GROUNDFOS REDI-FLO

Purge Rate: 1.19 gpm Purged Volume (actual): 139.79 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.19 gpm

Sample ID: MW-1C Time Collected: 1410

QA Sample Collected (i.e., Blind Duplicate) ___ Yes ___ No QA Sample ID: JR, CJ

Sample Appearance (color, odor, etc.): CLEAR, NONE Detected

Final Values: Temp: 23.89 °C pH: 5.20 Conductivity: 0.068 mS/cm ORP: 52.7 mV

Salinity: ~~✓~~ % Turbidity: 43.0 NTU DO: 0.17 mg/L Other: _____

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: APPI VOA's, APPI Metals NH3, TL, CL, NO3, TDS, EDB, DBCP

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7/27/04 Sampled By: James Ramirez

Station (Well No.): MW-1C WACS ID: 19902 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): GRUNDFOS RED-FLO Purge Rate: 1.19 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 1205 Time @ End of Purging: 1406 Total Purging Time: 2.01 Depth of Pump or Intake Tubing: 70 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1215	11.9	11.9	23.91	5.25	0.073	101.1	65.5	1.02	Yellow Tint	18.25	
1400	120.75	132.65	23.89	5.20	0.068	45.0	54.6	0.19	Clear	18.40	
1403	3.57	136.22	23.90	5.21	0.068	40.0	54.4	0.19	Clear	18.40	
1406	3.57	139.79	23.89	5.20	0.068	43.0	52.7	0.17	Clear	18.40	
~ Turbidity went to 27 NTU's after 1 Hour, Let Well purge For 20 minutes and Pump/Generator shut OFF (no gas). Turbidity went back up and stayed @ 40.0											
~ Very Small particles in Water!											

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-1C Time Collected: 1410 Comments: Filtered Sample

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7-26- 2004

Station (Well No.): MW-2A WACS ID: ~~19900~~ 19903 Performed by: E. JONES & K. WILLS

Field Conditions/Observations: PARTLY CLOUDY, TEMP. LONGR 90's

Well Inspection:

Well Type: __ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): LOCKED GOOD CONDITION

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 13.92 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 28.60 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 14.03 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.11 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (_____ - 13.92) x 0.16 = _____ gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.0625 in. x *(D)* 0.0625 in. x *(L)* 40 ft.)+ *(Fc)* .25 gal = .25 gal

3 Well/Equipment Volumes = .75 gallons Purge Method: X Pump ___ Bailer Type: PERISTALTIC

Purge Rate: .11 gpm Purged Volume (actual): 6.11 gallons Purge Water Contained? __ Yes X No

Container Used: __ 55 Gallon Drum _____ Other (_____) Labeled: __ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: .11 gpm

Sample ID: MW-2A Time Collected: 13:55

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: E.J.

Sample Appearance (color, odor, etc.): CLEAR

Final Values: Temp: 27.57 °C pH: 2.69 Conductivity: 0.141 mS/cm ORP: 284.6 mV

Salinity: — % Turbidity: 2.4 NTU DO: .88 mg/L Other: APP I VOAS, EDB, DBCP, APPT METALS

Filtered: _____ Yes X No Filter Size: _____ µm Analysis Required: NH3, TL, CL, NO3, TDS

Sample Bottles Filled: 6 40 ml vials 2 1 liter amber glass 2 250 ml plastic 2 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7-26-04 Sampled By: C. JONES & K. WILLS

Station (Well No.): MW-2A WACS ID: 19903 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): Geopump 2 (03143) Purge Rate: .11 gpm Water Quality Meter (Make & Model) YSI (650 MDS (02630) Water Level Meter: Solinst (03548)

Time @ Start of Purging: 12:[illegible] Time @ End of Purging: 13:53 Total Purging Time: 1hr. 20 min Depth of Pump or Intake Tubing: 18 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
12:46	1.43	1.43	28.16	3.15	0.141	1.1	257.0	8.19	CLEAR	14.05	
12:54	0.88	2.31	27.78	2.93	0.140	0.6	258.5	5.06	CLEAR	14.06	
13:01	0.77	3.08	28.60	3.12	0.141	0.8	258.9	2.79	CLEAR	14.06	
13:04	0.33	3.41	29.07	3.11	0.140	0.5	261.5	2.26	CLEAR	14.04	
13:07	0.33	3.74	29.24	3.12	0.141	1.0	262.5	1.90	CLEAR	14.04	
13:10	0.33	4.07	28.98	3.06	0.140	1.8	268.8	1.83	CLEAR	14.04	
13:13	0.33	4.40	29.32	3.10	0.141	0.8	268.1	1.71	CLEAR	14.04	
13:16	0.33	4.73	30.41	3.20	0.141	0.6	271.5	1.69	CLEAR	13.91	
13:18										PUMP PROBLEM, PUMP SHUT OFF FOR APPROXIMATELY 15 MINUTES.	
13:32	.06	~~4.73~~ 4.79	27.38	2.86	0.143	2.6	284.3	1.99	CLEAR	14.02	.06 gpm flow-rate
13:35	.18	~~4.97~~ 4.97	29.45	2.53	0.141	1.5	298.9	1.88	CLEAR	14.05	
13:42	.48	~~5.45~~ 5.45	27.49	2.58	0.142	1.1	275.4	.81	CLEAR	14.05	
13:49	.42	5.87	27.55	2.68	0.140	0.5	282.2	.87	CLEAR	14.05	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-2A Time Collected: 13:55 Comments: SEE PAGE 1 OF 2

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7-26-04 Sampled By: C. JONES

Station (Well No.): MW-2A WACS ID: 19903 Purge Method: Pump Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): GEOPump 2 Purge Rate: .11 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 12:33 Time @ End of Purging: 13:53 Total Purging Time: 1hr. 20min Depth of Pump or Intake Tubing: 18 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
13:53	.24	6.11	27.57	2.69	0.141	2.4	284.6	.88	CLEAR	14.03	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-2A Time Collected: 13:55 Comments: PAGE 2 OF 2

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7-30- 2004

Station (Well No.): MW-2B WACS ID: 19904 Performed by: C. JONES

Field Conditions/Observations: SUNNY TEMP. IN MID 80S

Well Inspection:

Well Type: __ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): LOCKED GOOD CONDITION

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 13.69 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 48.32 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 15.74 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 2.05 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: X Yes ___ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (48.32 - 13.69) x 0.16 = 5.54 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

5 WELL VOLUMES = 27.7 gal

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump ___ Bailer Type: GRUNDFOS

Purge Rate: 1.37 gpm Purged Volume (actual): 67.13 gallons Purge Water Contained? __ Yes X No

Container Used: __ 55 Gallon Drum ___ Other (_____) Labeled: __ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.37 gpm

Sample ID: MW-2B Time Collected: 11:00

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: C.J

Sample Appearance (color, odor, etc.): CLOUDY

Final Values: Temp: 23.61 °C pH: 4.73 Conductivity: 0.056 mS/cm ORP: 99.1 mV

Salinity: — % Turbidity: 85.3 NTU DO: 0.19 mg/L Other: —

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: APPI VOAS, EDB, DBCP APPI METALS
NH3, TL, CL, NO3, TL, DISS APPI MET, DISS TC

Sample Bottles Filled: 6 40 ml vials 2 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7-30-04 Sampled By: CLARENCE JONES

Station (Well No.): MW-2B WACS ID: 19904 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): GRUNDFOS RED1-40 Purge Rate: 1.37 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 10:00 Time @ End of Purging: 10:49 Total Purging Time: 49 min Depth of Pump or Intake Tubing: 43 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
10:14	19.18	19.18	23.58	4.79	0.057	200.2	137.3	0.57	BROWNISH	13.69	
10:32	24.66	43.84	23.61	4.74	0.056	74.0	114.0	0.30	BROWNISH	15.70	
10:40	10.96	54.8	23.58	4.73	0.056	67.8	102.9	0.18	CLOUDY	15.72	
10:45	6.85	61.65	23.58	4.75	0.056	85.0	99.2	0.21	CLOUDY	15.74	TUBE CHERKED W/LAMOTTE METER
10:49	5.48	67.13	23.61	4.73	0.056	85.3	99.1	0.19	CLOUDY	15.74	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-2B Time Collected: 11:00 Comments: 45 NTUs W/FILTER

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7/30/2004

Station (Well No.): mw-2C WACS ID: 19905 Performed by: James Ramirez

Field Conditions/Observations: Mostly Cloudy 80°, Med. Winds

Well Inspection:

Well Type: __ Flush Mount X Stick Up __ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): Found in good Condition

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: Cap removed and Allowed to Stabilize
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 13.86 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 68.42 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 18.29 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 4.43 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water (initial)) x well capacity = (68.42 - 13.86) x .16 = 8.7 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

(5 well Volumes = 43.6 gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = (P) 0 gal + (0.041 x (D) .0625 in. x (D) .0625 in. x (L) 74 ft.)+ (Fc) .25 gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump ___ Bailer Type: GrundFos - ReDi FLO

Purge Rate: 1.45 gpm Purged Volume (actual): _____gallons Purge Water Contained? __ Yes ___No

Container Used: __ 55 Gallon Drum _____ Other (_____) Labeled: __ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.45 gpm

Sample ID: MW - 2C Time Collected: _____

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: J.R, C.J

Sample Appearance (color, odor, etc.): Brown Tint, No odor Detected

Final Values: Temp: 23.88 °C pH: 5.05 Conductivity: 0.065 mS/cm ORP: 80.5 mV

Salinity: / % Turbidity: 65.3 NTU DO: 0.18 mg/L Other: _____

Filtered: X Yes _____ No Filter Size: 1 µm Analysis Required: TL, CL, NH3, NO3 APPI VOAs, EDB, DBCP, APPI METALS, Diss TL, Diss MET

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7/30/04 Sampled By: James Ramirez

Station (Well No.): MW-2C WACS ID: 19905 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): GRUNDFOS REDI-FLO Purge Rate: 1.45 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 10:00 Time @ End of Purging: 1058 Total Purging Time: 58 min Depth of Pump or Intake Tubing: 63.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
10:12	17.4	17.4	23.94	5.25	0.076	166	129.8	1.05	BROWNISH	13.86	
1022	14.5	31.9	23.89	5.18	0.073	250	120.9	0.37	Brown Tint	18.27	
1032	14.5	46.4	23.86	5.13	0.070	134.7	96.1	0.19	Brown Tint	18.29	
1042	14.5	60.9	23.86	5.08	0.068	99.1	87.5	0.20	Brown Tint	18.29	
1052	14.5	75.4	23.87	5.06	0.066	71.4	82.0	0.21	Brown Tint	18.29	
1055	4.35	79.75	23.88	5.06	0.065	67.5	77.9	0.19	Brown Tint	18.29	
1058	4.35	84.1	23.88	5.05	0.065	65.3	80.5	0.18	Brown Tint	18.29	
~	WATER has a Brown tint and is cloudy!										~

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-2C Time Collected: 1100 Comments: Filtered NTU's 1.5

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7/26/ 2004

Station (Well No.): MW-3A WACS ID: 19906 Performed by: JR, CJ

Field Conditions/Observations: P, Cloudy

Well Inspection:

Well Type: __ Flush Mount X Stick Up __ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): well locked And found in good Condition

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: CAP removed and Allowed to STABILIZE
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 13.44 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.77 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 13.56 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: .12 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.77 - 13.44) x .16 = 1.49 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

(5 well Volumes = 7.46 gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* .0625 in. x *(D)* .0625 in. x *(L)* 40. ft.)+ *(Fc)* .25 gal = .25 gal

3 Well/Equipment Volumes = .77 gallons Purge Method: X Pump ___ Bailer Type: Peristaltic

Purge Rate: .13 gpm Purged Volume (actual): 11.05 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: .13 gpm

Sample ID: MW-3A Time Collected: _____

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: JR, CJ

Sample Appearance (color, odor, etc.): None Detected, NO odor

Final Values: Temp: 26.63 °C pH: 3.79 Conductivity: 0.249 mS/cm ORP: 168.1 mV

Salinity: / % Turbidity: 1.0 NTU DO: 0.38 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: APPI VOAS, EDB, DCP, APPI metals NH3, TL, CL, NO3

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 2 250 ml plastic 2 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH 1

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7/26/04 Sampled By: JR, KW, CS.

Station (Well No.): MW-3A WACS ID: 19906 Purge Method: (Pump) Bailer Pump Type: __ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): Geopump 2 (3938) Purge Rate: .13 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst (0614)

Time @ Start of Purging: 1310 Time @ End of Purging: 1435 Total Purging Time: 1.25 Depth of Pump or Intake Tubing: 18.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1400	6.5	6.5	26.50	3.62	0.291	39.8	172.2	2.37	Yellow Tint	13.48	
1405	.65	7.15	26.56	3.41	0.278	4.6	178.8	3.34	Clear	13.53	
1410	.65	7.8	26.62	3.80	0.275	6.7	160.7	3.61	Clear	13.60	
1415	.65	8.45	26.33	3.66	0.270	10.7	164.6	3.51	Clear	13.60	
1420	.65	9.1	26.39	3.65	0.263	2.9	166.9	1.85	Clear	13.60	
1425	.65	9.75	26.48	3.68	0.264	1.4	167.0	0.73	Clear	13.56	
1430	.65	10.4	26.52	3.72	0.255	0.6	167.7	0.55	Clear	13.56	
1435	.65	11.05	26.63	3.79	0.249	1.0	168.1	0.38	Clear	13.56	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-3A Time Collected: 1440 Comments: Vehicle Running while Sample Collected.

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7-30 — 2004

Station (Well No.): MW-3B WACS ID: 19907 Performed by: C JONES

Field Conditions/Observations: SUNNY TEMP. IN MID 80S

Well Inspection:

Well Type: __ Flush Mount X Stick Up __ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): LOCKED, GOOD CONDITION

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 13.27 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 47.62 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 15.34 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 2.07 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: X Yes ___ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (47.62 - 13.27) x 0.16 = 5.49 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc 5 WELL VOLUMES = 27.48 gal.
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump ___ Bailer Type: GRUNDFOS

Purge Rate: 1.37 gpm Purged Volume (actual): 94.53 gallons Purge Water Contained? __ Yes X No

Container Used: __ 55 Gallon Drum ___ Other (_____) Labeled: __ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.37 gpm

Sample ID: MW-3B Time Collected: 13:30

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: C.J.

Sample Appearance (color, odor, etc.): _____

Final Values: Temp: 23.80 °C pH: 5.05 Conductivity: 0.090 mS/cm ORP: 48.8 mV

Salinity: — % Turbidity: 695 NTU DO: 0.20 mg/L Other: _____

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: APPI VOAS, EDB, DBCP, APPI METALS
NH3, TL, CL, NO3, TL, DISS APPI MET, DISS-TL

Sample Bottles Filled: 6 40 ml vials 2 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7-30-04 Sampled By: S. JONES

Station (Well No.): MW-3B WACS ID: 19907 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): GRUNDFOS RE-DI-E20 Purge Rate: 1.37 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 12:20 Time @ End of Purging: 13:27 Total Purging Time: 1h. 7min Depth of Pump or Intake Tubing: 42 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
12:36	21.92	21.92	23.73	5.04	0.088	1000+	60.8	0.46	BROWN	15.20 ~~13.27~~	
12:46	13.7	35.62	23.73	5.02	~~0.39~~ 0.089	865.0	48.0	0.30	BROWN	15.20	
13:18	46.58	82.2	23.79	5.06	0.089	561	67.8	0.31	BROWN	15.33	
13:24	8.22	90.42	23.77	5.04	0.090	566	56.6	0.21	BROWN	15.34	
13:27	4.11	94.53	23.80	5.05	0.090	695.0	48.8	0.20	BROWN	15.34	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-3B Time Collected: 13:30 Comments: TURB. 1.8 NTUS W/ FILTER

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7/30/ 2004

Station (Well No.): MW-3C WACS ID: 19908 Performed by: James Ramirez

Field Conditions/Observations: P. Cloudy, 80° MED. Winds

Well Inspection:

Well Type: __ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): Found in good Condition

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: Cap removed and Allowed to STABILIZE
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 13.27 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 68.68 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 16.50 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 3.23 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (68.68 - 13.27) x .16 = 8.8 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

(5 well Volumes = 44.32 gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump ___ Bailer Type: Grundfos

Purge Rate: 1.24 gpm Purged Volume (actual): 57.04 gallons Purge Water Contained? __ Yes X No

Container Used: __ 55 Gallon Drum ____ Other (_____) Labeled: __ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.24 gpm

Sample ID: MW-3C Time Collected: 1310

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: JR

Sample Appearance (color, odor, etc.): Brown Tint, No odor Detected

Final Values: Temp: 23.96 °C pH: 5.23 Conductivity: 0.095 mS/cm ORP: 32.4 mV

Salinity: ✓ % Turbidity: 129.9 NTU DO: 0.17 mg/L Other:

Filtered: X Yes ____ No Filter Size: 1 µm Analysis Required: APP I VOAs, APP I METALS, Diss TL TL, LL, EAB, DBCP, NH3, NO3, Diss METALS

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7/30/04 Sampled By: James Ramirez

Station (Well No.): MW-3C WACS ID: 19908 Purge Method: Pump Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): YSI Purge Rate: 1.24 gpm Water Quality Meter (Make & Model) 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 1220 Time @ End of Purging: 1306 Total Purging Time: 46 min Depth of Pump or Intake Tubing: 63.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1230	12.4	12.4	23.96	5.26	0.088	199.9	55.5	0.54	Brown Tint	16.45	LAMOTTE (220 NTU)
1240	12.4	24.8	23.99	5.24	0.088	189.0	72.2	0.31	Brown Tint	16.47	
1250	12.4	37.2	23.94	5.25	0.088	215.3	36.1	0.21	Brown Tint	16.50	
1300	12.4	49.6	23.94	5.24	0.087	183.3	33.0	0.18	Brown Tint	16.50	
1303	3.72	53.32	23.95	5.23	0.085	162.1	32.7	0.13	Brown Tint	16.50	
1306	3.72	57.04	23.96	5.23	0.085	129.9	32.4	0.17	Brown Tint	16.50	
~		Verified Turbidity with LAMOTTE METER					~	~			
~		WATER has a Brown tint and Cloudy					~	~			

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-3C Time Collected: 1310 Comments: Filtered NTUs 3.1

Well Inspection & Sampling Log

Site: ~~ASGROW~~ OAK Hammock Project No.: FQ0638 Task: 01 Date: 8/5/~~July~~ 2004

Station (Well No.): MW-4A(R) Performed by: James Ramirez

Field Conditions/Observations: Mostly cloudy, 75°

Well Inspection:

Well Type: X Flush Mount ___ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): well found in good Condition

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: Cap removed And Allowed to STABilize
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.13 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 23.13 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 14.69 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: .56 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (23.13 - 14.13) x .16 = 1.44 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

(5 well Volumes = 7.2 gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump ___ Bailer Type: Peristaltic

Purge Rate: _____ gpm Purged Volume (actual): 15.25 gallons Purge Water Contained? ~~X~~ Yes V No

Container Used: ~~X~~ 55 Gallon Drum ___ Other (_____) Labeled: ~~X~~ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: .25 gpm

Sample ID: MW-4A(R) Time Collected: 1110

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: DR

Sample Appearance (color, odor, etc.): Brown Tint, No odor Detected

Final Values: Temp: 25.18 °C pH: 4.87 Conductivity: 0.188 mS/cm ORP: 17.7 mV

Salinity: ___ % Turbidity: 32.7 NTU DO: 0.36 mg/L Other: _____

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: APPI VOAS, EDB, DBCP, APPI METALS NH3, TL, CL, NO3, Diss APPI MET, Diss-TL

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: OAK Hammock Disposal Facility Project No.: FQ0638 Task: 01 Date: 8/5/04 Sampled By: James Ramirez

WACS ID: 19909

Station (Well No.): MW-4 A(R) Purge Method: Pump [X] Bailer [ ] Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Geopump 2 Purge Rate: .25 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 1005 Time @ End of Purging: _____ Total Purging Time: _____ Depth of Pump or Intake Tubing: _____ ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	Eh (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
									Brown Tint		
1100	13.75	13.75	25.02	5.02	0.202	27.8	25.3	1.40	~~14.69~~ SR	14.69	
1103	.75	14.50	25.11	4.86	0.196	54.1	23.0	0.45	Brown Tint	14.69	
1106	.75	15.25	25.18	4.87	0.188	32.7	17.7	0.36	Brown Tint	14.69	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-4A(R) Time Collected: 1110 Comments: Filtered Sample NTUs

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7-30- 2004

Station (Well No.): MW-4B WACS ID: 19910 Performed by: C. JONES

Field Conditions/Observations: SUNNY TEMP. IN MID 80'S

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): LOCKED, GOOD CONDITION

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.02 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 47.43 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 15.49 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 1.47 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: X Yes ___ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (47.43 - 14.02) x 0.16 = 5.34 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

5 WELL VOLUMES = 26.7 gal.

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: _X_ Pump ___ Bailer Type: GRUNDFOS

Purge Rate: 1.38 gpm Purged Volume (actual): 74.51 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.38 gpm

Sample ID: MW-4B Time Collected: 1612

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: C.J

Sample Appearance (color, odor, etc.): CLOUDY

Final Values: Temp: 24.11 °C pH: 4.69 Conductivity: 0.140 mS/cm ORP: 56.1 mV

Salinity: — % Turbidity: 27.9 NTU DO: 0.12 mg/L Other: _____

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: APPI VOAS, EDB, DBCP, APPI METALS, NH3, TL, CL, NO3, TDS, DISS APPL MET, DISS-TL

Sample Bottles Filled: 6 40 ml vials 2 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7-30-04 Sampled By: C. JONES

Station (Well No.): MW-4B WACS ID: 19910 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) ___ Peristaltic

Pump (Make & Model): GRUNDFOS REDI-FLO Purge Rate: 1.38 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 15:15 Time @ End of Purging: 16:09 Total Purging Time: 1 hr 55 min Depth of Pump or Intake Tubing: 42 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume ((gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
15:23	11.04	11.04	24.19	4.70	0.141	65.5	93.7	0.92	CLOUDY	15.47	
15:30	9.66	20.7	24.14	4.69	0.141	66.9	92.2	0.35	CLOUDY	15.45	
15:40	13.8	34.5	24.12	4.70	0.140	35.5	64.9	0.25	CLOUDY	15.45	
16:02	30.36	64.85	24.09	4.70	0.140	27.2	48.0	0.20	CLOUDY	15.49	
16:05	4.14	68.99	24.09	4.70	0.140	28.1	54.7	0.12	CLEAR	15.49	
16:09	5.52	74.51	24.11	4.69	0.140	29.9	56.1	0.12	CLEAR	15.49	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-4B Time Collected: 16:12 Comments: TURB 2.1 NTUS W/FILTER

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7/30/ 2004

Station (Well No.): MW-4C WACS ID: 19911 Performed by: James Ramirez

Field Conditions/Observations: P. Cloudy, Med. winds 82°F

Well Inspection:

Well Type: __ Flush Mount X Stick Up __ Other Well Size (ID): 2 in. __ Steel X PVC

Condition (locked, damaged, etc.): Found in good condition

Well Labeled: X Yes __ No Well Cap: X Yes __ No Well Cap: X Tight __ Loose

Comments: Cap removed and Allowed to stabilize
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.30 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 62.23 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 19.30 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 5 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: __ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (62.23 - 14.30) x .16 = 7.6 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

(5 well Volumes = 38.39gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump __ Bailer Type: GrundFos

Purge Rate: 1.37 gpm Purged Volume (actual): _____gallons Purge Water Contained? __ Yes ___No

Container Used:__ 55 Gallon Drum _____ Other (_____) Labeled: __ Yes ____ No

Sampling Method: ___ Bailer ___ Peristaltic Pump ___ Submersible Pump Sample Rate: 1.37 gpm

Sample ID: MW-4C Time Collected: _____

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: JR, CJ

Sample Appearance (color, odor, etc.): Brown and Cloudy, NO ODOR Detected

Final Values: Temp: 24.53 °C pH: 5.56 Conductivity: 0.143 mS/cm ORP: 7.2 mV

Salinity: / % Turbidity: 1,129.7 NTU DO: 0.22 mg/L Other: _____

Filtered: X Yes _____ No Filter Size: 1 µm Analysis Required: APP IVOAS, APP I METALS, Diss, TL TL, EDB, DBCP, CL, NH3, NO3 Diss METALS

Sample Bottles Filled: 6 40 ml vials __ 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7/30/04 Sampled By: James Ramirez

Station (Well No.): MW-4C WACS ID: 19911 Purge Method: Pump Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ___ Peristaltic

Pump (Make & Model): _____ Purge Rate: 1.37 gpm Water Quality Meter (Make & Model) _____ Water Level Meter: _____

Time @ Start of Purging: 1515 Time @ End of Purging: _____ Total Purging Time: _____ Depth of Pump or Intake Tubing: _____ ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1525	13.7	13.7	28.44	5.43	0.140	1,099.8	55.9	0.36	Brown/cloudy	19.91	
1535	13.7	27.4	24.53	5.54	0.143	1,093.2	45.7	0.25	Brown/cloudy	19.20	
1545	13.7	41.1	24.53	5.57	0.143	1122.0	7.3	0.22	Brown/cloudy	19.26	
1548			24.53	5.57	0.143	1,131.3	7.3	0.22	Brown/cloudy	19.30	
1551			24.53	5.56	0.143	1,129.7	7.2	0.22	Brown/cloudy	19.30	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-14C Time Collected: 1555 Comments: Filtered NTU's 6.6

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7/27/2004

Station (Well No.): MW-5A WACS ID: 19912 Performed by: James Ramirez

Field Conditions/Observations: P, cloudy, light winds

Well Inspection:

Well Type: __ Flush Mount X Stick Up __ Other Well Size (ID): 2 in. __ Steel X PVC

Condition (locked, damaged, etc.): well found in good condition

Well Labeled: X Yes __ No Well Cap: X Yes __ No Well Cap: X Tight __ Loose

Comments: CAP removed and well allowed to stabilize.
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.45 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: ~~22.98~~ 22.48 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 15.49 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: .03 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: __ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.48 - 15.45) x .16 = 1.12 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

(5 well volumes = 5.6 gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = (P) 0 gal + (0.041 x (D) .0625 in. x (D) .0625 in. x (L) 40 ft.)+ (Fc) .25 gal = 0.25 gal

3 Well/Equipment Volumes = .76 gallons Purge Method: X Pump __ Bailer Type: peristaltic

Purge Rate: .052 gpm Purged Volume (actual): 6.5 gallons Purge Water Contained? __ Yes X No

Container Used: __ 55 Gallon Drum ____ Other (_____) Labeled: __ Yes __ No

Sampling Method: __ Bailer X Peristaltic Pump __ Submersible Pump Sample Rate: .052 gpm

Sample ID: MW-5A Time Collected: 1005

QA Sample Collected (i.e., Blind Duplicate) __ Yes X No QA Sample ID: JR

Sample Appearance (color, odor, etc.): Brown Tint, NO ODOR Detected

Final Values: Temp: 26.12 °C pH: 4.40 Conductivity: 0.138 mS/cm ORP: 180.7 mV

Salinity: ✓ % Turbidity: 51.5 NTU DO: 1.23 mg/L Other:

Filtered: X Yes __ No Filter Size: 1m µm Analysis Required: APPI Metals, VOA's, EDB, DBCP, APPI METALS, NH3, TL, CL, NO3, Diss-MET, Diss-TL

Sample Bottles Filled: 6 40 ml vials __ 1 liter amber glass 3 250 ml plastic 3 500 ml plastic __ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH 1

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier __ FedEx (Airbill No. _____) __ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7-27-04 Sampled By: C. JONES, J. RAMIREZ

Station (Well No.): MW-5A WACS ID: 19912 Purge Method: Pump Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ___ Peristaltic

Pump (Make & Model): GeoPump 2 Purge Rate: .052 gpm Water Quality Meter (Make & Model) YSI 650 Water Level Meter: Solinst

Time @ Start of Purging: 07:55 Time @ End of Purging: 1015 Total Purging Time: _____ Depth of Pump or Intake Tubing: 18 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
0840	2.34	2.34	25.32	4.80	0.163	80.1	114.8	7.39	yellow Tint	15.37	
0850	.52	2.86	25.41	4.76	0.158	77.5	117.4	5.27	Brown Tint	15.37	
0900	.52	3.38	25.56	4.73	0.154	69.6	124.1	3.92	Brown Tint	15.40	
0910	.52	3.9	25.71	4.66	0.148	65.7	137.8	3.22	Brown Tint	15.41	
0920	.52	4.42	25.74	4.59	0.147	62.1	146.8	3.48	Brown tint	15.41	
0930	.52	4.94	26.11	4.62	0.141	58.8	156.0	3.83	Brown tint	15.41	Verified NTU's with LaMotte (60 NTU's)
0940	.52	5.46	26.10	4.57	0.142	57.3	160.0	2.44	Brown tint	15.41	
0950	.52	5.98	26.16	4.50	0.142	55.5	165.3	1.56	Brown tint	15.41	
0955	.26	6.24	26.03	4.48	0.137	52.8	176.9	~~1.18~~	Brown tint	15.41	
*1000	.26	6.50	26.12	4.40	0.138	51.5	180.7	1.23	Brown tint	15.48	
* WATER COLOR BROWN tint with FINE particles observed! (very Fine particles)											
* Filtered NTU (6.3) — still has light Brown tint AFter Filtered.											

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-5A Time Collected: 1005 Comments: Filtered

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 8/2/2004

Station (Well No.): MW-5B WACS ID: 19913 Performed by: James Ramirez

Field Conditions/Observations: Heavy Rain, 72° MEDWinds

Well Inspection:

Well Type: __ Flush Mount X Stick Up __ Other Well Size (ID): 2 in. __ Steel X PVC

Condition (locked, damaged, etc.): Found in good Condition

Well Labeled: X Yes __ No Well Cap: __ Yes __ No Well Cap: X Tight __ Loose

Comments: CAP removed and Allowed to STAbilize
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.81 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 47.10 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 17.48 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 2.67 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: __ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (47.10 - 14.81) x .16 = 5.16 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

(5 well Volumes = 25.83 gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* ____ in. x *(D)* ____ in. x *(L)* 50 ft.)+ *(Fc)* ____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump __ Bailer Type: Grundfos

Purge Rate: 1.48 gpm Purged Volume (actual): 90.28 gallons Purge Water Contained? __ Yes X No

Container Used: __ 55 Gallon Drum ____ Other (_____) Labeled: __ Yes __ No

Sampling Method: __ Bailer __ Peristaltic Pump X Submersible Pump Sample Rate: 1.48 gpm

Sample ID: MW-5B Time Collected: 1150

QA Sample Collected (i.e., Blind Duplicate) __ Yes X No QA Sample ID: JR

Sample Appearance (color, odor, etc.): Clear, NO ODOR Detected

Final Values: Temp: 24.22 °C pH: 4.53 Conductivity: 0.062 mS/cm ORP: 29.1 mV

Salinity: / % Turbidity: 5.4 NTU DO: 0.15 mg/L Other: _____

Filtered: ____ Yes X No Filter Size: _____ µm Analysis Required: APPI VOA's, EDB, DBCP, APPI METALS NH3, TZ, CL, NO3, TDS

Sample Bottles Filled: 6 40 ml vials __ 1 liter amber glass 2 250 ml plastic 2 500 ml plastic __ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier __ FedEx (Airbill No. _____) __ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 8/2/04 Sampled By: James Ramirez

Station (Well No.): MW-5B WACS ID: 19913 Purge Method: (Pump) Bailer Pump Type: (Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): YSI (Grundfos Redi-Flo) Purge Rate: 1.48 gpm Water Quality Meter (Make & Model) 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 1045 Time @ End of Purging: 1146 Total Purging Time: 1.01 Depth of Pump or Intake Tubing: 42.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	*Temp* (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1120	51.8	51.8	24.18	4.63	0.062	8.9	81.8	1.17	clear	17.38	
1140	29.6	81.4	24.21	4.53	0.062	7.0	74.1	0.79	clear	17.43	Turned pump off to check YSI (2 minutes)
1143	4.44	85.84	24.22	4.53	0.063	9.4	31.4	0.18	clear	17.48	
1146	4.44	90.28	24.22	4.53	0.062	5.4	29.1	0.15	clear	17.48	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-5B Time Collected: 1150 Comments: No Filter (verified Turbidity w/ Lamotte)

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 8/2/2004

Station (Well No.): MW-5C WACS ID: 19914 Performed by: James Ramirez

Field Conditions/Observations: Heavy Rain, 82°, MED. Winds

Well Inspection:

Well Type: __ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): Found in good Condition

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: Cap removed and allowed to Stabilize.
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.20 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 73.0 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 19.03 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 3.83 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (73.0 - 15.20) x .16 = 9.2 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

(5 well volumes = 46.24 gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump ___ Bailer Type: GRUNDFOS

Purge Rate: 1.24 gpm Purged Volume (actual): 100.44 gallons Purge Water Contained? __ Yes X No

Container Used:___ 55 Gallon Drum _____ Other (_____) Labeled: __ Yes ____ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.24 gpm

Sample ID: MW-5C Time Collected: 1210

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: JR

Sample Appearance (color, odor, etc.): clear, No Odor Detected

Final Values: Temp: 24.34 °C pH: 5.04 Conductivity: 0.097 mS/cm ORP: 27.4 mV

Salinity: / % Turbidity: 14.4 NTU DO: 0.20 mg/L Other:

Filtered: _____ Yes X No Filter Size: _____ µm Analysis Required: APPI VOAs, EDB, DBCP, APPI METALS NH3, TL, CL, NO3, TDS

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 2 250 ml plastic 2 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 8/2/04 Sampled By: James Ramirez

Station (Well No.): MW-5C WACS ID: 19914 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): YSI (GRUNDFOS Redi-Flo) Purge Rate: 1.24 gpm Water Quality Meter (Make & Model) 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 1045 Time @ End of Purging: 1206 Total Purging Time: 1.21 Depth of Pump or Intake Tubing: 68.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1130	55.8	55.8	24.32	5.36	0.097	25.0	48.9	1.05	Clear	18.95	
1200	37.2	93.0	24.35	5.24	0.097	14.9	38.1	0.99	Clear	19.03	
1203	3.72	96.72	24.34	5.04	0.097	15.5	27.8	0.20	Clear	19.03	
1206	3.72	100.44	24.34	5.04	0.097	14.4	27.4	0.20	Clear	19.03	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

): MW-5C Time Collected: 1210 Comments: NO Filter

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7-27- 2004

Station (Well No.): MW-6A WACS ID: 19915 Performed by: E. JONES

Field Conditions/Observations: SUNNY, TEMP IN LOWER 90's, DUSTY CONDITIONS

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): LOCKED GOOD CONDITION

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: WRONG LABEL PLACED ON MW-6A. TD WAS CHECKED WELL HAS MW-6C LABEL.
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.88 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.56 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 16.0 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: .12 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: X Yes ___ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.56 - 15.88) x .16 = 1.06 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

(5 well Volumes = 5.34 gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.625 in. x *(D)* 0.625 in. x *(L)* 40 ft.)+ *(Fc)* .25 gal = .25 gal

3 Well/Equipment Volumes = .75 gallons Purge Method: X Pump ___ Bailer Type: PERISTALTIC GEOPUMP 2

Purge Rate: .074 gpm Purged Volume (actual): 9.85 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (___) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: .074 gpm

Sample ID: MW-6A Time Collected: 10:45

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: 05.

Sample Appearance (color, odor, etc.): CLEAR

Final Values: Temp: 30.90 °C pH: 5.07 Conductivity: 0.090 mS/cm ORP: 43.6 mV

Salinity: — % Turbidity: 1.5 NTU DO: 0.34 mg/L Other: ___

Filtered: ___ Yes X No Filter Size: ___ µm Analysis Required: APPI VOAS, EDB, DBCP, APPI METALS NH_3, TL, CL, NO_3, TDS

Sample Bottles Filled: 6 40 ml vials X 1 liter amber glass 2 250 ml plastic 2 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH ___

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. ___) ___ Other (___)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7-27-04 Sampled By: C. JONES

Station (Well No.): MW-6A WACS ID: 19915 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): GEOPUMP 2 Purge Rate: .074 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 08:30 Time @ End of Purging: 10:42 Total Purging Time: 2h. 12min Depth of Pump or Intake Tubing: 18 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
10:25	8.51	8.51	30.[illegible]	5.06	0.096	12.6	80.3	1.30	CLEAR	15.88	
10:29	0.30	8.81	30.95	5.09	0.093	1.7	84.2	0.62	CLEAR	[illegible]	
10:35	0.44	9.25	30.80	5.08	0.098	1.6	50.1	0.42	CLEAR	[illegible]	
10:38	.22	9.55	30.85	5.08	0.091	1.5	46.9	0.40	CLEAR	16.0	
10:42	.30	9.85	30.90	5.07	0.090	1.5	43.6	0.34	CLEAR	16.0	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-6A Time Collected: 10:45 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 8/2/2004

Station (Well No.): MW-6B WACS ID: 19916 Performed by: James Ramirez

Field Conditions/Observations: Mostly cloudy, med winds

Well Inspection:

Well Type: __ Flush Mount X Stick Up __ Other Well Size (ID): 2 in. __ Steel X PVC

Condition (locked, damaged, etc.): well found in good condition

Well Labeled: X Yes __ No Well Cap: X Yes __ No Well Cap: X Tight __ Loose

Comments: Cap removed and well allowed to stabilize
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.96 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 47.40 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 19.58 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 4.62 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: __ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (47.40 - 14.96) x .16 = 5.19 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88
(5 well Volumes = 25.95 gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump __ Bailer Type: GRUNDFOS

Purge Rate: .36 gpm Purged Volume (actual): 30.96 gallons Purge Water Contained? __ Yes X No

Container Used: __ 55 Gallon Drum _____ Other (_____) Labeled: __ Yes __ No

Sampling Method: __ Bailer __ Peristaltic Pump X Submersible Pump Sample Rate: .36 gpm

Sample ID: MW-6B Time Collected: 1510

QA Sample Collected (i.e., Blind Duplicate) __ Yes X No QA Sample ID: DR

Sample Appearance (color, odor, etc.): Brown Tint with silt (cloudy)

Final Values: Temp: 24.76 °C pH: 5.27 Conductivity: 0.084 mS/cm ORP: -11.1 mV

Salinity: / % Turbidity: 378 NTU DO: 0.16 mg/L Other: _____

Filtered: X Yes __ No Filter Size: 1 µm Analysis Required: APPI VOA's, EDB, DBCP, APPI METALS NH3, TL, Cl, NO3, TDS

Sample Bottles Filled: 6 40 ml vials __ 1 liter amber glass 3 250 ml plastic 3 500 ml plastic __ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier __ FedEx (Airbill No. _____) __ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 8/2/04 Sampled By: James Ramirez

Station (Well No.): MW-6B WACS ID: 19916 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): YSI (GRUNDFOS) Redi-Flo2 Purge Rate: .36 gpm Water Quality Meter (Make & Model) 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 1340 Time @ End of Purging: 1506 Total Purging Time: 1.26 Depth of Pump or Intake Tubing: 42.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1400	7.2	7.2	24.80	5.19	0.102	827.5	13.2	0.40	Brown/cloudy	19.61	Checked NTUs WIT LAMOTTE
1410	3.6	10.8	24.73	5.29	0.097	605.1	33.3	0.33	Brown/cloudy	19.54	
1420	3.6	14.4	24.79	5.32	0.094	488.6	11.3	0.21	Brown/cloudy	19.56	
1440	7.2	21.6	24.73	5.29	0.090	396.8	-1.1	0.17	Brown/cloudy	19.60	
1450	3.6	25.2	24.72	5.28	0.088	334.2	-7.8	0.16	Brown/cloudy	19.58	
1500	3.6	28.8	24.75	5.27	0.087	370	-10.3	0.16	Brown/cloudy	19.56	
1503	1.08	29.88	24.76	5.28	0.087	370	-11.1	0.16	Brown/cloudy	19.58	
1506	1.08	30.96	24.76	5.27	0.088	378	-11.1	0.16	Brown/cloudy	19.58	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-6B Time Collected: 1510 Comments: Filtered NTUs 2.7

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 8/2/2004

Station (Well No.): MW-6C WACS ID: 19917 Performed by: James Ramirez

Field Conditions/Observations: Mostly cloudy, med. winds

Well Inspection:

Well Type: ___ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): Wells labeled wrong (6A = 6C 6 = C = 6A — marked wells with A Sharpie.

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: Cap removed and Allowed well to STABILIZE
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.10 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 73.16 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 17.54 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 2.44 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (73.16 - 15.10) x .16 = 9.28 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc (5 well Volumes = 46.44 gal)
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump ___ Bailer Type: Grundfos

Purge Rate: 1.24 gpm Purged Volume (actual): 57.04 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.24 gpm

Sample ID: MW-6C Time Collected: 1430

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: JR

Sample Appearance (color, odor, etc.): Cloudy, None Detected

Final Values: Temp: 23.99 °C pH: 4.90 Conductivity: 0.060 mS/cm ORP: 58.5 mV

Salinity: ___ % Turbidity: 35. NTU DO: 0.23 mg/L Other: _____

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: APPI VOA's, EDB, DBCP, APPI METALS NH3, TL, CL, NO3, TAS

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 8/2/04 Sampled By: James Ramirez

Station (Well No.): MW-6C WACS ID: 19917 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): YSI (GRUNDFOS Redi-FLO) Purge Rate: 1.24 gpm Water Quality Meter (Make & Model) 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 1340 Time @ End of Purging: 1426 Total Purging Time: 46 min Depth of Pump or Intake Tubing: 68.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1405	31	31	24.01	4.77	0.060	138.1	68.4	0.38	Cloudy	17.48	
1420	18.6	49.6	23.99	4.89	0.060	35.0	90.9	0.22	cloudy	17.60	
1423	3.72	53.32	23.99	4.90	0.060	33.0	47.5	0.26	cloudy	17.55	
1426	3.72	57.04	23.99	4.90	0.060	35.0	58.5	0.23	Cloudy	17.54	
~	Very Small particles observed in WATER									~	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-6C Time Collected: 1430 Comments: Filtered NTUs 1.1

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7/27/ 2004

Station (Well No.): MW-7A WACS ID: 19918 Performed by: James Ramirez

Field Conditions/Observations: Sunny with light wind (Sampled down Wind of landfill (* STRONG ODORS).

Well Inspection:

Well Type: __ Flush Mount X Stick Up __ Other Well Size (ID): 2 in. __ Steel X PVC

Condition (locked, damaged, etc.): Well Found in good Condition

Well Labeled: X Yes __ No Well Cap: X Yes __ No Well Cap: X Tight __ Loose

Comments: Well Cap Removed to Allow water to STABILIZE
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.99 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: JR ~~15.94~~ 23.31 JR ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 16.29 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: .3 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: __ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (23.31 - 15.99) x .16 = 1.17 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

(5 well Volumes = 5.85gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* X gal + (0.041 x *(D)* .0625 in. x *(D)* .0625 in. x *(L)* 40 ft.)+ *(Fc)* .25 gal = .25 gal

3 Well/Equipment Volumes = .77 gallons Purge Method: X Pump __ Bailer Type: Peristaltic

Purge Rate: .11 gpm Purged Volume (actual): 9.84 gallons Purge Water Contained? __ Yes X No

Container Used: __ 55 Gallon Drum ____ Other (_____) Labeled: __ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: .11 gpm

Sample ID: MW-7A Time Collected: 1235

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: JR

Sample Appearance (color, odor, etc.): Very Dark Brown WATER, NO ODOR Detected

Final Values: Temp: 29.41 °C pH: 4.78 Conductivity: 0.120 mS/cm ORP: 196.7 mV

Salinity: ~~/~~ % Turbidity: 1,321.0 NTU DO: 1.17 mg/L Other: _____

Filtered: X Yes ____ No Filter Size: 1 m µm Analysis Required: APP I METALS, TL, CL, NH3, NO3, Diss-Met Diss-TL EDB, DBCP, APPI VOAS

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH 1

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7/27/04 Sampled By: James Ramirez

Station (Well No.): MW-7A WACS ID: 19918 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): Geopump 2 (03143) Purge Rate: .11 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 1050 Time @ End of Purging: 1230 Total Purging Time: 1.40 Depth of Pump or Intake Tubing: 18.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	START W/T BROWN TINT Color	Depth to Water (ft) BTOC	Comments
1055	.55	.55	26.36	5.38	0.144	145.9	115.7	5.55	Brown tint	16.20	
1120	2.75	3.3	25.66	4.72	0.141	132.3	168.2	3.73	Cloudy	16.26	Water Color Cloudy (Very Fine Particles)
1150	3.3	6.6	26.05	4.54	0.141	135.5	181.2	2.45	Cloudy	16.28	Verified NTUs with LaMotte (130.0 NTU)
1200	1.1	7.7	26.61	4.51	0.118	430.0	193.3	1.94	Brown	16.28	
1210	1.1	8.8	26.74	4.63	0.117	1,298.2	194.7	1.49	Brown	16.28	Decreased Flow Rate to .052
~	Decreased Flow RATE to .052 because of increase in Turbidity.									~	
1220	.52	9.32	29.18	4.63	0.120	1,340.6	195.0	1.26	Brown	16.29	
1225	.26	9.58	29.29	4.73	0.128	1,338.6	193.2	1.19	Brown	16.29	
1230	.26	9.84	29.41	4.78	0.120	1,321.0	196.7	1.17	Brown	16.29	
~	Purged 10 well Volumes and Turbidity did not change.									~	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-7A Time Collected: 1235 Comments: Well located down Wind of Landfill (Strong Odors)

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 8/3/2004

Station (Well No.): MW-7B WACS ID: 19919 Performed by: James Ramirez

Field Conditions/Observations: Strong ODORS From Land Fill, well located down wind.

Well Inspection:

Well Type: __ Flush Mount _X_ Stick Up __ Other Well Size (ID): 2 in. __ Steel _X_ PVC

Condition (locked, damaged, etc.): well found in good condition

Well Labeled: _X_ Yes __ No Well Cap: _X_ Yes __ No Well Cap: _X_ Tight __ Loose

Comments: Cap removed and allowed well to stabilize
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.63 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 47.46 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 23.81 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 8.18 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: __ Yes _X_ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (47.46 - 15.63) x .16 = 5.09 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

(5 well Volumes = 25.46gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: _X_ Pump __ Bailer Type: Grundfos

Purge Rate: 1.03 gpm Purged Volume (actual): 31.93 gallons Purge Water Contained? __ Yes _X_ No

Container Used: __ 55 Gallon Drum _____ Other (_____) Labeled: __ Yes __ No

Sampling Method: __ Bailer __ Peristaltic Pump _X_ Submersible Pump Sample Rate: 1.03 gpm

Sample ID: MW-7B Time Collected: 1050

QA Sample Collected (i.e., Blind Duplicate) __ Yes _X_ No QA Sample ID: JR

Sample Appearance (color, odor, etc.): Brown Tint and Cloudy

Final Values: Temp: 23.87 °C pH: 5.23 Conductivity: 0.106 mS/cm ORP: -7.3 mV

Salinity: / % Turbidity: 1183.8 NTU DO: 0.09 mg/L Other:

Filtered: _X_ Yes __ No Filter Size: 1 µm Analysis Required: APPI VOAs, EDB, DBCP, APPI METALS NH3, TL, CL, NO3, TDS

Sample Bottles Filled: 6 40 ml vials __ 1 liter amber glass 3 250 ml plastic 3 500 ml plastic __ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: _X_ Courier __ FedEx (Airbill No. _____) __ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 8/3/04 Sampled By: James Ramirez

Station (Well No.): MW-7B WACS ID: 19919 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): YSI (GRUNDFOS Redi-FLO) Purge Rate: 1.03 gpm Water Quality Meter (Make & Model) 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 1015 Time @ End of Purging: 1046 Total Purging Time: 31 Depth of Pump or Intake Tubing: 42.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Initial color (clear) Color	Depth to Water (ft) BTOC	Comments
1030	15.45	15.45	23.90	5.41	0.115	1184.1	42.3	1.12	Brown/cloudy	15.63	
1040	10.30	25.75	23.87	5.20	0.109	1183.7	9.9	0.25	Brown/cloudy	18.83	
1043	3.09	28.84	23.87	5.22	0.106	1183.7	-6.4	0.09	Brown/cloudy	23.34	
1046	3.09	31.93	23.87	5.23	0.106	1183.8	-7.3	0.09	Brown/cloudy	23.81	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-7B Time Collected: 1050 Comments: Filtered NTU's 450

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 8/3/2004

Station (Well No.): MW-7C WACS ID: 19920 Performed by: James Ramirez

Field Conditions/Observations: Strong odors from landfill, well located down wind.

Well Inspection:

Well Type: __ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): well found in good condition

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: Cap removed and allowed well to stabilize
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): ~~15.85~~ 15.46 JR ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 73.33 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 18.25 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 2.79 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (73.33 - ~~15.85~~ 15.46 JR) x .16 = 9.25 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

5 well Volumes = 46.29 gal

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump ___ Bailer Type: GRUNDFOS

Purge Rate: 1.58 gpm Purged Volume (actual): 56.88 gallons Purge Water Contained? __ Yes X No

Container Used: __ 55 Gallon Drum _____ Other (_____) Labeled: __ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.58 gpm

Sample ID: MW-7C Time Collected: 1055

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: JR

Sample Appearance (color, odor, etc.): Brown tint and cloudy

Final Values: Temp: 23.86 °C pH: 5.29 Conductivity: 0.103 mS/cm ORP: -4.2 mV

Salinity: / % Turbidity: 1183.6 NTU DO: 0.10 mg/L Other:

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: APPI VOA's, EDB, DBCP, APPI METALS NH3, TL, CL, NO3, TDS

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 8/3/04 Sampled By: James Ramirez

Station (Well No.): MW-7C WACS ID: 19920 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): YSI (Grundfos) Redi-Flo (4981) Purge Rate: 1.58 gpm Water Quality Meter (Make & Model) 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 1015 Time @ End of Purging: 1051 Total Purging Time: 36 min Depth of Pump or Intake Tubing: 68.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Initial Color Brown Color	Depth to Water (ft) BTOC	Comments
1035	31.6	31.6	23.86	5.15	0.107	1183.8	49.9	0.46	Brown/Cloudy	17.39	
1045	15.8	47.4	23.87	5.21	0.105	1183.8	19.0	0.15	Brown/Cloudy	18.11	
1048	4.74	52.14	23.85	5.28	0.104	1183.5	-0.1	0.11	Brown/Cloudy	18.30	
1051	4.74	56.88	23.86	5.29	0.103	1183.6	-4.2	0.10	Brown/Cloudy	18.25	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-7C Time Collected: 1055 Comments: Filtered NTU's 120

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7-27 2004

Station (Well No.): MW-8A WACS ID: 1992 Performed by: C. JONES

Field Conditions/Observations: SUNNY, TEMP IN LOWER 90'S

Well Inspection:

Well Type: __ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): LOCKED, GOOD CONDITION

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.34 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.50 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 15.42 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: .08 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: X Yes ___ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.5 - 15.34) x .16 = 1.14 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

(5 well Volumes = 5.7 gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = (P) 0 gal + (0.041 x (D) 0.0625 in. x (D) 0.0625 in. x (L) 40 ft.)+ (Fc) .25 gal = .25 gal

3 Well/Equipment Volumes = .75 gallons Purge Method: X Pump ___ Bailer Type: PERISTALTIC GEOPUMP 2

Purge Rate: .05 gpm Purged Volume (actual): 3.6 gallons Purge Water Contained? __ Yes X No

Container Used: __ 55 Gallon Drum ___ Other (_____) Labeled: __ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: .05 gpm

Sample ID: MW-8A Time Collected: 12:45

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: C. J

Sample Appearance (color, odor, etc.): CLEAR

Final Values: Temp: 29.40 °C pH: 4.71 Conductivity: 0.159 mS/cm ORP: C.J. -44 -48 mV

Salinity: — % Turbidity: 5.6 NTU DO: 0.56 mg/L Other: APPI VOAS, GDB, DBCP, APPI METALS

Filtered: ___ Yes X No Filter Size: NA µm Analysis Required: NH3, TL, CL, NO3, TDS

Sample Bottles Filled: 6 40 ml vials X 1 liter amber glass 2 250 ml plastic 2 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL-Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7-27-04 Sampled By: C. JONES

Station (Well No.): MW-8A WACS ID: 19921 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): GeoPump 2 Purge Rate: .05 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 11:30 Time @ End of Purging: 12:42 Total Purging Time: 1 hr. 12 min Depth of Pump or Intake Tubing: 18 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
11:35	.25	.25	29.01	4.61	0.159	65	41.5	1.00	CLOUDY CLEARER	15.58	
11:47	.60	0.85	28.02	4.64	0.160	55	[illegible]	1.10	CLOUDY CLEARER	15.58	
11:51	.20	1.05	28.71	4.65	0.160	55	[illegible]	1.17	CLOUDY	15.57	
12:20	~~1.40~~ 1.45	~~2.0~~ 2.5	28.38	4.69	0.159	53.4	[illegible]	0.76	CLOUDY	15.59	
12:24	~~2.2~~ 2.2	~~2.5~~ 2.7	29.25	4.69	0.158	30.0	9.9	0.65	CLEAR	15.55	
12:32	.40	3.1	29.30	4.70	0.159	4.8	3.0	0.58	CLEAR	15.48	
12:42	.5	3.6	29.40	4.71	0.159	5.6	-1.1	0.56	CLEAR	15.42	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-8A Time Collected: 12:45 Comments: SAMPLED DOWN WIND OF LANDFILL NORTH [illegible] SITE DRY CONDITIONS

Well Inspection & Sampling Log

Site: C.J. ASGROW OAK HAMMOCK Project No. FQ0638 Task: 01 Date: 8-5-2004

Station (Well No.): MW-88(R) Performed by: C. JONES

Field Conditions/Observations: PARTLY CLOUDY, TEMP. IN MID 80'S

Well Inspection:

Well Type: X Flush Mount ___ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): LOCKED GOOD CONDITION

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.84 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: ~~49.58~~ 49.58 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 34.84 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 20. ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: X Yes ___ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (49.58 - 14.84 x 0.16 = 5.55 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc 5 WELL VOLUMES 27.7 gal.
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump ___ Bailer Type: GRUNDFOS

Purge Rate: 1.10 gpm Purged Volume (actual): 35.2 gallons Purge Water Contained? X Yes ___ No

Container Used: X 55 Gallon Drum ___ Other (_____) Labeled: X Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.10 gpm

Sample ID: MW-88(R) Time Collected: 12:00

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: C.J

Sample Appearance (color, odor, etc.): BROWNISH

Final Values: Temp: 24.25 °C pH: 3.34 Conductivity: 0.086 mS/cm ORP: 228 mV

Salinity: — % Turbidity: T20 NTU DO: 0.34 mg/L Other:

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: TL, CL, NO3, TDS, DISS APPI MET, DISS-TC, APPI VOAS, EDB, DBCP, APPI METALS, NH3

Sample Bottles Filled: 6 40 ml vials 8 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: OAK HAMMOCK Project No.: FQ0638 Task: 01 Date: 8-5-04 Sampled By: C. JONES

Station (Well No.): MW-8B(R) Purge Method: Pump [X] Bailer [ ] Pump Type: [X] Submersible (__ Teflon __ SS __ Other) __ Peristaltic __ Centrifugal __ Bladder

Pump (Make & Model): GRUNDFOS REDI-FLO Purge Rate: 1.10 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 11:28 Time @ End of Purging: 11:57 Total Purging Time: 29 min Depth of Pump or Intake Tubing: 43 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	Eh (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
11:43	16.5	16.5	24.29	3.25	0.087	975	215.0	0.46	BROWNISH	14.84	
11:46	3.3	19.8	24.30	3.29	0.087	475	217.0	0.41	BROWNISH	31.84	INCREASED FLOW RATE TO 1.4 gpm
11:54	11.2	31	24.28	3.30	0.086	439	225.0	0.44	BROWNISH	34.95	
11:57	4.2	35.2	24.25	3.34	0.086	720	228.0	0.34	BROWNISH	34.84	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-8B(R) Time Collected: 12:00 Comments: TURBIDITY 22 NTUS W/ FILTER

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 8/3/2004

Station (Well No.): MW-8C WACS ID: 19923 Performed by: James Ramirez

Field Conditions/Observations: P. Cloudy, SCATTERED RAIN STORMS

Well Inspection:

Well Type: __ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): well found in good condition

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: Cap removed and allowed well to stabilize
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.95 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 73.90 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 17.12 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 2.17 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (73.90 - 14.95) x .16 = 9.43 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc (5 well Volumes = 47.16 gal)
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump ___ Bailer Type: GRUNDFOS

Purge Rate: 1.21 gpm Purged Volume (actual): 55.66 gallons Purge Water Contained? __ Yes X No

Container Used: __ 55 Gallon Drum ___ Other (_____) Labeled: __ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.21 gpm

Sample ID: MW-8C Time Collected: 1305

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: JR

Sample Appearance (color, odor, etc.): CLEAR, NO ODOR DETECTED

Final Values: Temp: 24.09 °C pH: 4.90 Conductivity: 0.068 mS/cm ORP: 78.2 mV

Salinity: / % Turbidity: 7.0 NTU DO: 0.19 mg/L Other:

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: APP I VOA'S, EDB, DBCP, APPI METALS NH3, TL, CL, NO3, TDS

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 2 250 ml plastic 2 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 8/3/04 Sampled By: James Ramirez

Station (Well No.): MW-8C WACS ID: 19923 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos Redi-Flo Purge Rate: 1.21 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 1215 Time @ End of Purging: 1301 Total Purging Time: 46 min Depth of Pump or Intake Tubing: 68.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1225	12.1	12.1	24.15	4.91	0.067	24.2	102.5	2.20	clear	17.06	
1235	12.1	24.2	24.14	4.87	0.067	20.0	113.7	0.43	clear	17.12	
1245	12.1	36.3	24.14	4.88	0.068	15.0	89.9	0.28	clear	17.12	
1255	12.1	48.4	24.11	4.88	0.069	11	103.0	0.35	clear	17.12	
1258	3.63	52.03	24.09	4.89	0.068	8.3	77.8	0.20	clear	17.12	
1301	3.63	55.66	24.09	4.90	0.068	7.0	78.2	0.19	clear	17.12	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-8C Time Collected: 1305 Comments: NO Filter

A lot of dust from vehicles going to Landfill.

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7/27/ 2004

Station (Well No.): MW-9A WACS ID: 19924 Performed by: James Ramirez

Field Conditions/Observations: P. Cloudy

Well Inspection:

Well Type: ___ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): Well found in Good Condition

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: Cap removed And Allowed to STAbilize
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.34 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.37 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 15.40 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: .06 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.37 - 15.34) x .16 = 1.12 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc (5 well Volumes = 5.69gal)
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* .0625 in. x *(D)* .0625 in. x *(L)* 40 ft.)+ *(Fc)* .25 gal = .25 gal

3 Well/Equipment Volumes = .77 gallons Purge Method: X Pump ___ Bailer Type: peristaltic

Purge Rate: .07 gpm Purged Volume (actual): 3.19 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: .07 gpm

Sample ID: MW-9A Time Collected: 1440

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: JR

Sample Appearance (color, odor, etc.): Light Yellow Tint

Final Values: Temp: 29.17 °C pH: 3.59 Conductivity: 0.120 mS/cm ORP: 258.1 mV

Salinity: / % Turbidity: 14.0 NTU DO: 1.03 mg/L Other:

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: APPI metal, APPI VOAs, EDB, DBCP NH3, NO3, TL, CL

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 2 250 ml plastic 2 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH 1

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7/27/04 Sampled By: James Ramirez

Station (Well No.): MW-9A WACS ID: 19924 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): Geopump 2 (03938) Purge Rate: .07 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 1350 Time @ End of Purging: 1435 Total Purging Time: 45 min Depth of Pump or Intake Tubing: 18 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1355	.39	.39	28.37	3.20	0.124	14.8	249.6	4.60	Yellow Tint	15.40	
1405	.7	1.09	28.43	3.34	0.123	16.5	250.0	3.93	Yellow Tint	15.40	
1415	.7	1.79	29.10	3.60	0.123	13.0	242.4	3.03	Yellow Tint	15.40	Verified NTU's with LA MOTTE (18.6)
1425	.7	2.49	29.02	3.56	0.121	8.0	248.8	1.05	Yellow Tint	15.40	
1430	.35	2.84	29.12	3.61	0.120	12.8	252.4	1.09	Light yell. Tint	15.40	
1435	.35	3.19	29.17	3.59	0.120	14.0	258.1	1.03	Light yell. Tint	15.40	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-9A Time Collected: 1440 Comments: NO Filter

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 8/3/2004

Station (Well No.): MW-9B WACS ID: 19925 Performed by: James Ramirez

Field Conditions/Observations: Light to Heavy RainFall. med. Winds.

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): Well Found in good Condition

Well Labeled: _X_ Yes ___ No Well Cap: _X_ Yes ___ No Well Cap: _X_ Tight ___ Loose

Comments: Cap removed And Allowed well To STABILIZE
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.05 ~~15.05~~ ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 49.11 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 31.94 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 16.89 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: ___ Yes _X_ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (49.11 - 15.05) x .16 = 5.44 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

(5 well Volumes = 27.24 gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: _X_ Pump ___ Bailer Type: Grundfos

Purge Rate: 1.29 gpm Purged Volume (actual): 39.99 gallons Purge Water Contained? ___ Yes _X_ No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump _X_ Submersible Pump Sample Rate: 1.29 gpm

Sample ID: MW-9B Time Collected: 1500

QA Sample Collected (i.e., Blind Duplicate) ___ Yes _X_ No QA Sample ID: JR

Sample Appearance (color, odor, etc.): Cloudy, NO ODOR Detected.

Final Values: Temp: 24.19 °C pH: 4.91 Conductivity: 0.082 mS/cm ORP: 86.6 mV

Salinity: / % Turbidity: 130 NTU DO: 0.27 mg/L Other:

Filtered: _X_ Yes ___ No Filter Size: 1 µm Analysis Required: APPI VOA's, EDB, DBCP, APPI METALS NH3, TL, CL, NO3, TDS

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: _X_ Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 8/3/04 Sampled By: C. Jones

Station (Well No.): MW-9B WACS ID: 19925 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): YSI (GRUNDFOS RED1-F10) Purge Rate: 1.29 gpm Water Quality Meter (Make & Model) 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 1425 Time @ End of Purging: 1456 Total Purging Time: 31min Depth of Pump or Intake Tubing: 44.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
				4.73							
1435	12.9	12.9	24.[illegible]19	4.73	0.082	205.3	109.9	0.36	Cloudy	23.19	
1445	12.9	25.8	24.18	4.82	0.082	173.7	99.2	0.31	Cloudy	29.22	
1450	6.45	32.25	24.18	4.87	0.082	130.2	91.4	0.26	Cloudy	31.75	
1453	3.87	36.12	24.17	4.91	0.082	100.0	87.9	0.30	Cloudy	31.90	
1456	3.87	39.99	24.19	4.91	0.082	130.0	86.6	0.27	Cloudy	31.94	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-9B Time Collected: 1500 Comments: Filter 12 NTU's

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 8/3/2004

Station (Well No.): MW-9c WACS ID: 19926 Performed by: James Ramirez

Field Conditions/Observations: Mostly Cloudy, scattered Rain Storms

Well Inspection:

Well Type: __ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): well found in good Condition

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: CAP removed And allowed well to STABILIZE
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.10 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 73.76 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 17.40 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 2.3 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (73.76 - 15.10) x .16 = 9.38 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc (5 well Volumes = 46.92 gal)
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump ___ Bailer Type: GRUNDFOS

Purge Rate: 1.58 gpm Purged Volume (actual): 56.88 gallons Purge Water Contained? __ Yes X No

Container Used:___ 55 Gallon Drum _____ Other (_____) Labeled: __ Yes ____ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.58 gpm

Sample ID: MW-9c Time Collected: 1505

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: JR

Sample Appearance (color, odor, etc.): clear, NO ODOR Detected

Final Values: Temp: 24.16 °C pH: 4.96 Conductivity: 0.078 mS/cm ORP: 72.4 mV

Salinity: / % Turbidity: 0 NTU DO: 0.22 mg/L Other:

Filtered: ____ Yes X No Filter Size: _____ µm Analysis Required: APPI VOA'S, EDB, DBCP, APPI METALS NH3, TL, CL, NO3, TDS

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 2 250 ml plastic 2 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 8/3/04 Sampled By: James Ramirez

Station (Well No.): MW-9C WACS ID: 19926 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos Redi-Flo Purge Rate: 1.58 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 1425 Time @ End of Purging: 1501 Total Purging Time: 36 min Depth of Pump or Intake Tubing: 68.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1435	15.8	15.8	24.07	5.00	0.074	19	96.9	0.75	Yellow Tint	16.32	
1445	15.8	31.6	24.13	4.80	0.078	6.6	100.8	0.36	Clear	17.40	
1455	15.8	47.4	24.14	4.92	0.078	4.1	83.6	0.28	Clear	17.48	
1458	4.74	52.14	24.16	4.96	0.078	0	74.6	0.26	Clear	17.40	
1501	4.74	56.88	24.16	4.96	0.078	0	72.4	0.22	Clear	17.40	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-9C Time Collected: 1505 Comments: No Filter

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7-27 2004

Station (Well No.): MW-10A WACS ID: 19927 Performed by: C. JONES

Field Conditions/Observations: SUNNY, TEMP. IN LOWER 90's

Well Inspection:

Well Type: __ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): LOCKED, GOOD CONDITION

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 16.63 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.14 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 16.88 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: .28 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water (initial)) x well capacity = (22.14 - 16.63) x .16 = ~~.551~~ .88 JR gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc (5 well Volumes = 4.40 gal) 2755 gal JR
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = (P) 0 gal + (0.041 x (D) 0.065 in. x (D) 0.065 in. x (L) 40 ft.)+ (Fc) .25 gal = .25 gal

3 Well/Equipment Volumes = .75 gallons Purge Method: X Pump ___ Bailer Type: PERISTALTIC GeoPump 2

Purge Rate: .11 gpm Purged Volume (actual): 4.29 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: .11 gpm

Sample ID: MW-10A Time Collected: 14:25

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: C.J

Sample Appearance (color, odor, etc.): YELLOWISH TINT W/ ODOR

Final Values: Temp: 27.74 °C pH: 4.166 Conductivity: 0.147 mS/cm ORP: 68.4 mV

Salinity: — % Turbidity: 12.5 NTU DO: 0.40 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: NH3, TL, CL, NO3, TDS APPI VOAS EDB, DBCP, APPI METALS

Sample Bottles Filled: 6 40 ml vials 0 1 liter amber glass 2 250 ml plastic 2 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH 1

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7-27-04 Sampled By: C JONES

Station (Well No.): MW-10A WACS ID: 19927 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): GeoPump 2 Purge Rate: ~1 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 13:42 Time @ End of Purging: 14:21 Total Purging Time: 39 min Depth of Pump or Intake Tubing: 18 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
13:50	.88	.88	27.33	4.62	0.161	21.5	73.4	0.77	YELLOWISH TINT	16.90	
13:53	.33	1.21	27.66	4.63	0.161	14.5	71.4	0.73	"	16.86	
14:08	1.65	2.86	27.44	4.65	0.156	16.5	64.5	0.48	"	16.89	
14:13	.55	3.41	27.64	4.66	0.151	13.4	66.0	0.43	"	16.88	
14:18	.55	3.96	27.60	4.65	0.148	13.2	65.1	0.39	"	16.88	
14:21	.33	4.29	27.74	4.66	0.147	12.5	68.4	0.40	"	16.88	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-10A Time Collected: 14:25 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 8-4 – 2004

Station (Well No.): MW-10B WACS ID: 19928 Performed by: C. JONES

Field Conditions/Observations: PARTLY SUNNY, TEMP. IN MID 80's

Well Inspection:

Well Type: __ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): LOCKED, GOOD CONDITION

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: ___ Tight X Loose

Comments:
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 16.40 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 48.26 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 18.63 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 2.23 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (48.26 - 16.40) x 0.16 = 5.09 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

5 WELL VOLUMES = 25.4 gal

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: _X_ Pump ___ Bailer Type: GRUNDFOS

Purge Rate: 1.48 gpm Purged Volume (actual): 71.04 gallons Purge Water Contained? ___ Yes ___ No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.48 gpm

Sample ID: MW-10B Time Collected: 08:55

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: C.J

Sample Appearance (color, odor, etc.): CLOUDY

Final Values: Temp: 27.95 °C pH: 4.56 Conductivity: 0.068 mS/cm ORP: 67.8 mV

Salinity: ~ % Turbidity: 26.3 NTU DO: 0.71 mg/L Other:

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: NH3, TC, CL, NO3, TDS, DISS APPI MET, DISS-TC
APPI VOAS, EDB, DBCP, APPI METALS

Sample Bottles Filled: 6 40 ml vials 2 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 8-4-04 Sampled By: C. JONES

Station (Well No.): MW-10B WACS ID: 19928 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): GRUNDFOS- RED/FLO Purge Rate: 1.48 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 08:00 Time @ End of Purging: 08:43 Total Purging Time: 43 min Depth of Pump or Intake Tubing: 43 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
08:05	7.4	7.4	23.94	4.55	0.068	89.1	105.2	0.64	CLOUDY	16.40	
08:15	22.2	29.6	24.04	4.43	0.068	46.2	108.1	0.62	CLOUDY	16.93	
08:30	22.2	51.80	23.94	4.54	0.068	30.7	68.5	0.22	CLOUDY	18.60	
08:40	14.80	66.60	23.92	4.56	0.067	26.6	68.0	0.29	CLOUDY	18.60	
08:43	4.44	71.04	23.95	4.56	0.068	26.3	67.8	0.31	CLOUDY	18.63	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-10B Time Collected: 08:55 Comments: TURBIDITY 0.0 NTU W/ FILTER

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 8/4/2004

Station (Well No.): MW-10c WACS ID: 19929 Performed by: James Ramirez

Field Conditions/Observations: P. Cloudy, Med Wind 76°

Well Inspection:

Well Type: ___ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): well Found in good Condition

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: Cap removed And Allowed well to Stabilize
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 16.76 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 73.71 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 18.39 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 1.63 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (73.71 - 16.76) x .16 = 9.11 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc (5 well Volumes = 45.56 gal)
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump ___ Bailer Type: Grundfos

Purge Rate: 1.19 gpm Purged Volume (actual): 54.74 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.19 gpm

Sample ID: MW-10c Time Collected: 0855

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: JR

Sample Appearance (color, odor, etc.): Brown Tint

Final Values: Temp: 24.01 °C pH: 4.84 Conductivity: 0.075 mS/cm ORP: 59.1 mV

Salinity: / % Turbidity: 486 NTU DO: 0.27 mg/L Other:

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: APPI VOAs, EDB, DBCP, APPI METALS NH3, TL, CL, NO3, Diss. MET, Diss. TL

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 8/4/04 Sampled By: James Ramirez

Station (Well No.): MW-10C WACS ID: 19929 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos RedI-Flo Purge Rate: 1.19 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 0805 Time @ End of Purging: 0851 Total Purging Time: 46 min Depth of Pump or Intake Tubing: 68.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
0815	11.9	11.9	24.02	4.65	0.074	224.8	81.6	0.39	Brown Tint	18.30	
0825	11.9	23.8	24.02	4.75	0.074	172.1	78.8	0.36	Brown Tint	18.36	
0835	11.9	35.7	24.01	4.82	0.075	97.5	62.3	0.24	Brown Tint	18.41	
0845	11.9	47.6	24.02	4.83	0.074	66.4	59.7	0.20	Brown Tint	18.38	
0848	3.57	51.17	24.02	4.83	0.074	55.1	59.2	0.25	Brown Tint	18.39	
0851	3.57	54.74	24.01	4.84	0.075	48.6	59.1	0.27	Brown Tint	18.39	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-10C Time Collected: 0855 Comments: Filtered Sample (NTU's with Filter Using YSI = 1.8)

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7/27/ 2004

Station (Well No.): MW 11A WACS ID: 19930 Performed by: JAMES RAMIREZ

Field Conditions/Observations: Very Cloudy 78°

Well Inspection:

Well Type: __ Flush Mount X Stick Up __ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): Well found in good Condition

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: Well Cap removed and Allowed to Stabilize
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.18 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.84 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 14.23 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: .05 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.84 - 14.18) x .16 = 1.38 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

(5 well Volumes = 6.9 gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* .0625 in. x *(D)* .0625 in. x *(L)* 40 ft.)+ *(Fc)* .25 gal = .25 gal

3 Well/Equipment Volumes = .76 gallons Purge Method: X Pump ___ Bailer Type: Peristaltic

Purge Rate: .08 gpm Purged Volume (actual): 4.4 gallons Purge Water Contained? __ Yes X No

Container Used:__ 55 Gallon Drum ____ Other (_____) Labeled: __ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: .08 gpm

Sample ID: MW-11A Time Collected: 1630

QA Sample Collected (i.e., Blind Duplicate) __ Yes X No QA Sample ID: JR

Sample Appearance (color, odor, etc.): Light Yellow Tint, No Odor Detected

Final Values: Temp: 26.93 °C pH: 4.58 Conductivity: 0.271 mS/cm ORP: 153.4 mV

Salinity: / % Turbidity: 8.1 NTU DO: 1.41 mg/L Other:

Filtered: ____ Yes X No Filter Size: _____ µm Analysis Required: APPI VOAS, EDB, DBCP, APPI METALS NH3, TL, CL, NO3, Diss.

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 2 250 ml plastic 2 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7/27/04 Sampled By: James Ramirez

Station (Well No.): MW-11A WACS ID: 19930 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): Geopump 2 (03938) Purge Rate: .08 gpm Water Quality Meter (Make & Model) YSI 650 MBS Water Level Meter: Solinst

Time @ Start of Purging: 1530 Time @ End of Purging: 1625 Total Purging Time: 55 min Depth of Pump or Intake Tubing: 18.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1540	.8	.8	28.08	4.11	0.284	9.2	166.6	3.69	Light yell. Tint	14.22	
1550	.8	1.6	28.06	4.48	0.280	6.3	153.0	2.42	Light yell. Tint	14.22	
1600	.8	2.4	27.63	4.39	0.278	6.5	159.7	2.17	Light yell. Tint	14.23	
1610	.8	3.2	27.21	4.55	0.274	7.8	154.1	1.35	Light yell. Tint	14.23	
1620	.8	4	27.00	4.57	0.271	8.0	154.0	1.43	Light yell. Tint	14.23	
1625	.4	4.4	26.93	4.58	0.271	8.1	153.4	1.41	Light yell. Tint	14.23	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-11A Time Collected: 1630 Comments: No Filter

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: B-4 — 2004

Station (Well No.): MW-11B (B) WACS ID: 19931 Performed by: C. JONES

Field Conditions/Observations: CLOUDY

Well Inspection:

Well Type: __ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): LOCKED GOOD CONDITION

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments:
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 13.95 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 47.86 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 22.65 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 8.70 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: X Yes ___ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (47.86 - 13.95) x 0.16 = 5.43 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc 5 WELL VOLUMES = 27.15 gal
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump ___ Bailer Type: GRUNDFOS

Purge Rate: 1.48 gpm Purged Volume (actual): 63.64 gallons Purge Water Contained? __ Yes ___ No

Container Used: __ 55 Gallon Drum ___ Other (_____) Labeled: __ Yes X No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: _____ gpm

Sample ID: MW-11B Time Collected: 14:55

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: C.J

Sample Appearance (color, odor, etc.): BROWNISH GREY

Final Values: Temp: 23.70 °C pH: 5.47 Conductivity: 0.225 mS/cm ORP: -3.3 mV

Salinity: — % Turbidity: 625.3 NTU DO: 0.24 mg/L Other:

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: APP.I VOAS, EDB, DBCP APP.I METALS NH3, TL, CL, NO3, TL, DISS APP.I MET, DISS-TL

Sample Bottles Filled: 6 40 ml vials X 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 8-04-04 Sampled By: C. JONES

Station (Well No.): MW-11B(R) WACS ID: 19931 Purge Method: Pump Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): GRUNDFOS REDI-FLO Purge Rate: 1.48 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 1405 Time @ End of Purging: 14:48 Total Purging Time: 43 min Depth of Pump or Intake Tubing: 42 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
14:15	14.8	14.8	23.93	6.09	0.381	1174	-2.7	1.21	BROWNISH GREY	12.95	~~13.95~~
14:25	14.8	29.6	23.76	5.59	0.255	1175	17.8	0.39	BROWNISH GREY	22.73	
14:35	14.8	44.4	23.80	5.57	0.249	1175	1.4	0.37	"	22.76	
14:45	14.8	59.20	23.75	5.49	0.229	7342	9.3	0.27	"	22.65	
14:48	4.44	63.64	23.70	5.47	0.225	625.3	-3.3	0.24	"	22.65	
									•		

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-11B Time Collected: 14:55 Comments: TURBIDITY 0.0 NTUS w/ FILTER

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 8/4/2004

Station (Well No.): MW-11c WACS ID: 199 Performed by: James Ramirez

Field Conditions/Observations: mostly cloudy Med. winds - Some Dust

Well Inspection:

Well Type: __ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): Well Found in good Condition

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: Cap Removed And Allowed well to Stabilize
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.05 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 73.35 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 17.07 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 3.02 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (73.35 - 14.05) x .16 = 9.48 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88
(5 well Volumes = 47.44 gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump ___ Bailer Type: Grundfos

Purge Rate: 1.50 gpm Purged Volume (actual): 61.5 gallons Purge Water Contained? __ Yes X No

Container Used:__ 55 Gallon Drum ____ Other (_____) Labeled: __ Yes ____ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.50 gpm

Sample ID: MW-11C Time Collected: 1450

QA Sample Collected (i.e., Blind Duplicate) ___ Yes ___ No QA Sample ID: JR

Sample Appearance (color, odor, etc.): clear, NO ODOR Detected

Final Values: Temp: 23.91 °C pH: 5.26 Conductivity: 0.161 mS/cm ORP: 17.4 mV

Salinity: / % Turbidity: 15.5 NTU DO: 0.27 mg/L Other: _____

Filtered: ____ Yes X No Filter Size: _____ µm Analysis Required: APPI VOAS, EDB, DBCP, APPI METALS NH3, TL, CL, NO3,

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 2 250 ml plastic 2 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 8/4/04 Sampled By: James Ramirez

Station (Well No.): MW-11C WACS ID: 19932 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos - Redi-Flo Purge Rate: 1.50 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: SolinST

Time @ Start of Purging: 1405 Time @ End of Purging: _____ Total Purging Time: _____ Depth of Pump or Intake Tubing: 68.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1420	22.5	22.5	23.96	5.18	0.162	195.6	40.7	0.73	Cloudy	16.95	
1430	15	37.5	23.96	5.22	0.161	60.3	53.4	0.53	Cloudy	17.06	
1440	15	52.5	23.95	5.23	0.161	30.0	29.8	0.30	Clear	17.07	
1443	4.5	57	23.91	5.24	0.160	19.5	18.1	0.29	Clear	17.07	
1446	4.5	61.5	23.91	5.26	0.161	15.7	17.4	0.27	Clear	17.07	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-11C Time Collected: 1450 Comments: No filter needed

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7-27-2004

Station (Well No.): MW-12A WACS ID: 19933 Performed by: E. JONES

Field Conditions/Observations: SUNNY, TEMP. IN LOWER 90's

Well Inspection:

Well Type: ___ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): LOCKED

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments:
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.40 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 23.0 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 15.46 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.06 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (23.0 - 15.40) x .16 = 1.21 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88
(5 well Volumes = 6.08 gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = (P) 0 gal + (0.041 x (D) 0.0625 in. x (D) 0.0625 in. x (L) 40 ft.)+ (Fc) .25 gal = .25 gal

3 Well/Equipment Volumes = .75 gallons Purge Method: X Pump ___ Bailer Type: PERISTALTIC GEOPUMP 2

Purge Rate: .079 gpm Purged Volume (actual): 2.92 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (___) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: .079 gpm

Sample ID: MW-12A Time Collected: 16:30

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: D.S

Sample Appearance (color, odor, etc.): CLEAR

Final Values: Temp: 28.70 °C pH: 4.32 Conductivity: 0.115 mS/cm ORP: 184.7 mV

Salinity: — % Turbidity: 1.5 NTU DO: 0.09 mg/L Other:

Filtered: ___ Yes X No Filter Size: ___ µm Analysis Required: NH3, TL, CL, NO3, TDS APP I, VOCS, EDB, DRCP, APP I METALS

Sample Bottles Filled: 6 40 ml vials 0 1 liter amber glass 2 250 ml plastic 2 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH ___

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. ___) ___ Other (___)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7-27-04 Sampled By: C. JONES

Station (Well No.): MW-12A WACS ID: 19933 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): GEOPUMP 2 Purge Rate: .079 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 15:50 Time @ End of Purging: 16:27 Total Purging Time: 37 min Depth of Pump or Intake Tubing: 18 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
16:00	.79	.79	29.69	4.31	0.116	0.0	205.0	0.17	CLEAR	15.40	
16:20	1.58	2.37	28.88	4.32	0.115	1.2	209.1	0.10	CLEAR	15.45	
16:24	.31	2.69	28.80	4.32	0.115	0.6	197.8	0.11	CLEAR	15.45	
16:27	.24	2.92	28.70	4.32	0.115	1.5	184.7	0.09	CLEAR	15.46	checked w/ [illegible]

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-12A Time Collected: 16:30 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 8-4- 2004

Station (Well No.): mw-12B WACS ID: 19934 Performed by: E. JONES

Field Conditions/Observations: PARTLY CLOUDY - TEMP IN MID 80'S

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): LOCKED, GOOD CONDITION

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.05 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 48.96 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 21.42 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 6.37 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: X Yes ___ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (48.96 - 15.05) x 0.16 = 5.43 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

5 WELL VOLUMES = 27.15

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump ___ Bailer Type: GRUNDFOS

Purge Rate: 1.32 gpm Purged Volume (actual): 54.12 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.32 gpm

Sample ID: mw-12B Time Collected: 1035

QA Sample Collected (i.e., Blind Duplicate) ___ Yes ___ No QA Sample ID: mw-12B

Sample Appearance (color, odor, etc.): BROWNISH

Final Values: Temp: 24.05 °C pH: 5.29 Conductivity: 0.112 mS/cm ORP: 30.8 mV

Salinity: — % Turbidity: 11777 NTU DO: 0.17 mg/L Other: APPI VOAS, EDB, DBCP, APPI METALS NH3, TL

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: CL, NO3, TDS, DISS APPI MET, DISS-TL

Sample Bottles Filled: 6 40 ml vials 9 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 8-4-04 Sampled By: C. JONES

Station (Well No.): MW-12B WACS ID: 19934 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): GRUNDFOS-REDI-flo Purge Rate: 1.32 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 09:50 Time @ End of Purging: 1031 Total Purging Time: 41 min Depth of Pump or Intake Tubing: 44 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1000	13.20	13.20	24.17	5.40	0.141	1177	59.8	0.48	BROWN	15.05	
1010	13.20	26.40	24.11	5.34	0.125	1178	40.6	0.24	BROWN	21.59	
1025	19.80	46.20	24.09	5.32	0.115	1177	41.0	0.20	BROWN	21.40	
1028	3.96	50.16	24.05	5.30	0.114	1177.5	33.8	0.18	BROWNISH	21.41	
1031	3.96	54.12	24.05	5.29	0.112	1177.7	30.8	0.17	BROWNISH	21.42	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

MW-12B Time Collected: 1035 Comments: TURB. 65.5 NTUs w/ FILTER

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 8/4/2004

Station (Well No.): MW-12c WACS ID: 19935 Performed by: James Ramirez

Field Conditions/Observations: P. Cloudy, med winds, 85°

Well Inspection:

Well Type: __ Flush Mount X Stick Up __ Other Well Size (ID): 2 in. __ Steel X PVC

Condition (locked, damaged, etc.): well found in good condition

Well Labeled: X Yes __ No Well Cap: X Yes __ No Well Cap: X Tight __ Loose

Comments: Cap removed and allowed well to stabilize
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.26 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 73.57 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 17.61 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 2.35 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: __ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (73.57 - 15.26) x .16 = 9.32 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

(5 well Volumes = 46.64 gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump __ Bailer Type: GrundFos

Purge Rate: 1.51 gpm Purged Volume (actual): 54.36 gallons Purge Water Contained? __ Yes X No

Container Used: __ 55 Gallon Drum _____ Other (_____) Labeled: __ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.51 gpm

Sample ID: MW.12c Time Collected: 1030

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: JR

Sample Appearance (color, odor, etc.): clear, no odor detected

Final Values: Temp: 24.07 °C pH: 4.71 Conductivity: 0.065 mS/cm ORP: 74.6 mV

Salinity: ____ % Turbidity: 8.5 NTU DO: 0.21 mg/L Other:

Filtered: ____ Yes X No Filter Size: _____ µm Analysis Required: APPI VOAs, EDB, DBCP, APPI METALS NH3, TL, CL, NO3

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 2 250 ml plastic 2 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 8/4/04 Sampled By: James Ramirez

Station (Well No.): ~~MW-12~~ MW-12C WACS ID: 19935 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos Redi-Flo Purge Rate: 1.51 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 0950 Time @ End of Purging: 1026 Total Purging Time: 36 min Depth of Pump or Intake Tubing: 68.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Initial Color	Depth to Water (ft) BTOC	Comments
1000	15.1	15.1	24.11	4.52	0.064	5.2	99.7	0.73	Clear	15.26	
1010	15.1	30.2	24.11	4.55	0.064	10.7	86.8	0.35	Clear	17.52	
1020	15.1	45.3	24.07	4.68	0.065	12.6	75.4	0.26	Clear	17.56	
1023	4.53	49.83	24.07	4.69	0.065	12.9	76.1	0.23	Clear	17.60	
1026	4.53	54.36	24.07	4.71	0.065	8.5	74.6	0.21	Clear	17.61	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-12C Time Collected: 1030 Comments: NO Filter needed.

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 8/5/2004

Station (Well No.): MW-13A WACS ID: 19936 Performed by: James Ramirez

Field Conditions/Observations: P.Cloudy, Light winds, 76°

Well Inspection:

Well Type: __ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): Well found in good Condition

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: Cap removed and allowed well to Stabilize
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.25 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.53 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 15.60 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: .35 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.53 - 15.25) x .16 = 1.16 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88
(5 well Volumes = 5.82 gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump ___ Bailer Type: peristaltic

Purge Rate: .13 gpm Purged Volume (actual): 6.63 gallons Purge Water Contained? __ Yes X No

Container Used: __ 55 Gallon Drum ____ Other (_____) Labeled: __ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: .13 gpm

Sample ID: MW-13A Time Collected: 1020

QA Sample Collected (i.e., Blind Duplicate) __ Yes X No QA Sample ID: JR

Sample Appearance (color, odor, etc.): Clear, NO ODOR Detected

Final Values: Temp: 27.32 °C pH: 4.79 Conductivity: 0.164 mS/cm ORP: 111.9 mV

Salinity: / % Turbidity: ~5.5 NTU DO: 0.24 mg/L Other: _____

Filtered: ____ Yes X No Filter Size: 1 µm Analysis Required: NH3, TL, CL, NO3, APPI VOAs, EDB, DBCP, APPI METALS

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 2 250 ml plastic 2 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: OAK Hammock Disposal Facility WACS ID: 19936 Project No.: FQ0638 Task: 01 Date: 8/5/04 Sampled By: James Ramirez

Station (Well No.): MW-13A(R) Purge Method: Pump X Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Grapump 2 Purge Rate: .13 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 0925 Time @ End of Purging: 1016 Total Purging Time: 51 min Depth of Pump or Intake Tubing: 18.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	Eh (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
0935	1.3	1.3	26.67	486	0.158	-0.5	115.0	0.67	Clear	16.20	
0955	2.6	3.9	27.38	4.78	0.162	-2.7	110.1	0.25	Clear	15.58	
1010	1.95	5.85	27.33	4.79	0.163	-3.5	101.5	0.26	Clear	15.60	
1013	.39	6.24	27.35	4.79	0.163	-2.9	105.8	0.25	Clear	15.60	
1016	.39	6.63	27.32	4.79	0.164	-3.5	111.9	0.24	Clear	15.60	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-13A(R) Time Collected: 1020 Comments: No Filter needed

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 8-4- 2004

Station (Well No.): MW-13B WACS ID: 19937 Performed by: C. JONES

Field Conditions/Observations: PARTLY SUNNY, TEMP. IN MID 80'S

Well Inspection:

Well Type: __ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): LOCKED, GOOD CONDITION

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.27 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 47.17 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 16.98 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 1.71 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: X Yes ___ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (47.17 - 15.27) x 0.16 = 5.10 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc 5 WELL VOLUMES = 25.50 gal
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump ___ Bailer Type: GRUNDFOS

Purge Rate: 1.34 gpm Purged Volume (actual): 48.14 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum _____ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.34 gpm

Sample ID: MW-13B Time Collected: 1225

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: C.J

Sample Appearance (color, odor, etc.): BROWNISH

Final Values: Temp: 23.68 °C pH: 7.69 Conductivity: 0.077 mS/cm ORP: 66.2 mV

Salinity: — % Turbidity: 161.5 NTU DO: 0.21 mg/L Other: APP I VOAS, EDB, DBCP, APP I METALS, NH3

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: TL, CL, NO3, TDS, DISS APP I MET, DISS TL

Sample Bottles Filled: 6 40 ml vials 2 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 8-4-04 Sampled By: C. JONES

Station (Well No.): MW-13B WACS ID: 19937 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): GRUNDFOS RED1-FLO Purge Rate: 1.34 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 1145 Time @ End of Purging: 1221 Total Purging Time: 36 min Depth of Pump or Intake Tubing: 42 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1155	13.4	13.4	23.81	4.73	0.077	592	108.3	0.95	BROWNISH	15.27	
1205	13.4	26.8	23.71	4.52	0.078	396.8	100.5	0.36	BROWNISH	16.85	
1215	13.4	40.1	23.73	4.64	0.078	220.6	86.2	0.26	BROWNISH	16.88	
1218	4.02	44.12	23.74	4.67	0.078	196.5	77.8	0.20	BROWNISH	16.93	
1221	4.02	48.14	23.68	4.69	0.077	161.5	66.2	0.21	BROWNISH	16.98	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-13B Time Collected: 1225 Comments: TURB. 3.5 NTUS W/ FILTER

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 8/4/ 2004

Station (Well No.): MW-13c WACS ID: 199 Performed by: James Ramirez

Field Conditions/Observations: Well Area getting very Cloudy, scattered Rain

Well Inspection: *Very Strong Wind when sampling.

Well Type: __ Flush Mount X Stick Up __ Other Well Size (ID): 2 in. __ Steel X PVC

Condition (locked, damaged, etc.): Well found in good Condition

Well Labeled: X Yes __ No Well Cap: X Yes __ No Well Cap: X Tight __ Loose

Comments: Cap removed and Allowed well to STABilize
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.32 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 72.99 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 17.96 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 2.64 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: __ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water (initial)) x well capacity = (72.99 - 15.32) x .16 = 9.22 gal
Well Capacity (gal/ft): 0.75"=0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

(5 well Volumes = 46.13gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump __ Bailer Type: Grundfos

Purge Rate: 1.58 gpm Purged Volume (actual): 56.88 gallons Purge Water Contained? __ Yes X No

Container Used: __ 55 Gallon Drum _____ Other (_____) Labeled: __ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.58 gpm

Sample ID: MW-13c Time Collected: 1225

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: JR

Sample Appearance (color, odor, etc.): Clear, No ODOR Detected

Final Values: Temp: 23.87 °C pH: 4.72 Conductivity: 0.079 mS/cm ORP: 65.8 mV

Salinity: ____ % Turbidity: 5.0 NTU DO: 0.21 mg/L Other:

Filtered: ____ Yes X No Filter Size: _____ µm Analysis Required: APP I VOAS, EDB, DBCP, APPI METALS NH3, TL, L, NO3

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 2 250 ml plastic 2 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 8/4/04 Sampled By: James Ramirez

Station (Well No.): MW-13C WACS ID: 19938 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos. RedFlo Purge Rate: 1.58 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: SolinST

Time @ Start of Purging: 1145 Time @ End of Purging: 1221 Total Purging Time: 36 min Depth of Pump or Intake Tubing: 68.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1205	31.6	31.6	23.92	4.46	0.079	18.9	127.0	0.53	Clear	17.91	
1215	15.8	47.4	23.92	4.63	0.079	9.2	93.5	0.22	Clear	18.02	
1218	4.74	52.14	23.87	4.72	0.079	5.2	68.1	0.22	Clear	17.95	
1221	4.74	56.88	23.87	4.72	0.079	5.0	65.8	0.21	Clear	17.96	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-13C Time Collected: 1225 Comments: NO Filter needed

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 26 JULY 2004

Station (Well No.): MW-14A WACS ID: 19939 Performed by: E. JONES & K. WILLS

Field Conditions/Observations: P.CLOUDY 88°F

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): FOUND IN GOOD CONDITION

Well Labeled: ✓ Yes ___ No Well Cap: ✓ Yes ___ No Well Cap: ✓ Tight ___ Loose

Comments: CAP Removed And Allowed Well to Stabilize
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 5.15 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 15.42 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 5.22 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: .07 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: X Yes ___ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (15.42 - 5.15) x .16 = 1.64 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88
(5 well Volumes = 8.21 gal)

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.0625 in. x *(D)* 0.0625 in. x *(L)* 40 ft.)+ *(Fc)* .25 gal = .25 gal

3 Well/Equipment Volumes = .75 gallons Purge Method: X Pump ___ Bailer Type: PERISTALTIC

Purge Rate: .11 gpm Purged Volume (actual): 6.05 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: .11 gpm

Sample ID: MW-14A Time Collected: 1110

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: JR, KW

Sample Appearance (color, odor, etc.): YELLOWISH TINT

Final Values: Temp: 27.00 °C pH: 4.24 Conductivity: 0.201 mS/cm ORP: 97.1 mV

Salinity: ✓ % Turbidity: 4.9 NTU DO: .27 mg/L Other: APPI VOAS, EDB, DBCP, APPI METALS

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: NH3, TL, CL, NO3, TL, [illegible]

Sample Bottles Filled: 6 40 ml vials 0 1 liter amber glass 2 250 ml plastic 2 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 26 July 04 Sampled By: C. JONES, K. WELLS

Station (Well No.): MW-14A WACS ID: 19939 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): Geopump 2(3938) Purge Rate: .11 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 10:10 Time @ End of Purging: 1120 Total Purging Time: 1.10 Depth of Pump or Intake Tubing: 11 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	YELLOW TINT @START Color	Depth to Water (ft) BTOC	Comments
1040	3.3	3.3	26.87	4.27	0.207	22.5	109.8	.73	yellow Tint	5.36	
1045	.55	3.85	26.63	4.05	0.206	12.4	106.5	.60	yellow Tint	5.38	
1050	.55	4.4	26.91	1.17	0.203	12.4	97.6	.25	yellow Tint	5.38	
1055	.55	4.95	27.02	4.39	0.204	6.6	85.0	.27	yellow Tint	5.38	
1100	.55	5.5	26.89	4.29	0.202	4.2	74.0	.25	yellow Tint	5.38	
1105	.55	6.05	27.00	4.24	0.201	4.8	97.1	.27	yellow Tint	5.38	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-14A Time Collected: 1110 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7-29 – 2004

Station (Well No.): MW-14B WACS ID: 19940 Performed by: C. JONES

Field Conditions/Observations: SUNNY, CLEAR, TEMP. MID 80'S

Well Inspection:

Well Type: __ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): LOCKED, GOOD CONDITION

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: CAP removed and Allowed well to STABILIZE
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 4.85 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 37.76 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 6.0 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 1.15 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): _____ft. OVM/PID Reading (if applicable): _____ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (37.76 - 4.85) x 0.16 = 5.26 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc 5 WELL VOLUMES = 26.3 gal
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* .0625 in. x *(D)* .0625 in. x *(L)* 70 ft.)+ *(Fc)* .25 gal = .26 gal

3 Well/Equipment Volumes = .78 gallons Purge Method: X Pump ___ Bailer Type: GRUNDFOS-REDI-FLO

Purge Rate: 1.32 gpm Purged Volume (actual): 73.92 gallons Purge Water Contained? __ Yes X No

Container Used: __ 55 Gallon Drum ___ Other (_____) Labeled: __ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.32 gpm

Sample ID: MW-14B Time Collected: 0945

QA Sample Collected (i.e., Blind Duplicate) X Yes ___ No (DUP-01) QA Sample ID: CJ, JR

Sample Appearance (color, odor, etc.): Cloudy, None Detected

Final Values: Temp: 23.73 °C pH: 4.77 Conductivity: 0.056 mS/cm ORP: 120.3 mV

Salinity: / % Turbidity: 66.4 NTU DO: 1.32 mg/L Other: _____

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: APPI VOA's, APPI METALS NH3, TL, Cl, NO3, TDS, EDB, DBCP

Sample Bottles Filled: 12 40 ml vials ___ 1 liter amber glass 6 250 ml plastic 6 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH 1

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7-29-04 Sampled By: C. JONES

Station (Well No.): MW-14B WACS ID: 19940 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) ___ Peristaltic

Pump (Make & Model): GRUNDFOS REDI-FLO (SN# 2411667) Purge Rate: 1.32 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 08:45 Time @ End of Purging: 0941 Total Purging Time: 56 MIN Depth of Pump or Intake Tubing: 30 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
0920	46.2	46.2	23.71	4.82	0.055	63.0	145.3	1.49	Cloudy	5.89	
09:35	19.8	66	23.77	4.82	0.055	60.2	133.4	1.40	CLOUDY	5.93	
0938	3.96	69.96	23.71	4.76	0.055	60.8	123.7	1.40	CLOUDY	5.98	
0941	3.96	73.92	23.73	4.77	0.056	66.4	120.3	1.32	CLOUDY	6.0	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

D: MW-14B Time Collected: 09:45 Comments: DUPLICATE SAMPLE TAKEN (DUP-01)
TURB 5.4 NTU'S W/ FILTER

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7/29/ 2004

Station (Well No.): MW-14C WACS ID: 19941 Performed by: James Ramirez

Field Conditions/Observations: Med. Winds, P. Cloudy, 80's

Well Inspection:

Well Type: __ Flush Mount _X_ Stick Up __ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): Well Found in good Condition

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: Cap removed and allowed to Stabilize
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 5.02 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 62.23 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 7.48 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 2.46 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (62.23 - 5.02) x .16 = 9.15 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc (5 well Volumes = 45.7 gal)
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* .0625 in. x *(D)* .0625 in. x *(L)* 70 ft.)+ *(Fc)* .25 gal = .26 gal

3 Well/Equipment Volumes = .78 gallons Purge Method: X Pump ___ Bailer Type: GRUNDFOS REDI-FLO

Purge Rate: 1.26 gpm Purged Volume (actual): 120.96 gallons Purge Water Contained? __ Yes X No

Container Used: __ 55 Gallon Drum ___ Other (_____) Labeled: __ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.26 gpm

Sample ID: MW-14C Time Collected: 1025

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: ___

Sample Appearance (color, odor, etc.): Cloudy, NONE Detected

Final Values: Temp: 23.82 °C pH: 5.35 Conductivity: 0.100 mS/cm ORP: 67.1 mV

Salinity: ___ % Turbidity: 155.9 NTU DO: 0.34 mg/L Other: ___

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: APPI VOAs, APPI Metals NH3, TL, CL, NO3, TDS, EDB, DBCP

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH 1

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7/29/04 Sampled By: James Ramirez

Station (Well No.): MW-14C WACS ID: 19941 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): GRUNDFOS-Redi-Flo (49915) Purge Rate: 1.26 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 0845 Time @ End of Purging: 1021 Total Purging Time: 1.36 Depth of Pump or Intake Tubing: 57 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
0915	37.8	37.8	24.04	5.34	0.112	400.0	108.5	2.21	Brown Tint	7.59	
1015	75.6	113.4	23.86	5.35	0.101	151.0	77.9	0.66	cloudy	7.48	
1018	3.78	117.18	23.86	5.33	0.100	153.7	71.6	0.44	cloudy	7.48	
1021	3.78	120.96	23.82	5.35	0.100	155.9	67.1	0.34	cloudy	7.48	
					~	Observed Particles in the WATER					~
~		Filtered	NTU's	1.3		~	WATER	Clear!			

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-14C Time Collected: 1025 Comments: Filtered Sample

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7-26-2004

Station (Well No.): MW-15A WACS ID: 19942 Performed by: C. JONES & K. WILLS

Field Conditions/Observations: PARTLY CLOUDY, TEMP. NEAR 88°F

Well Inspection:

Well Type: __ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): LOCKED GOOD CONDITION

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: CAP REMOVED AND ALLOWED WELL TO STABILIZE
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 4.83 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.99 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 4.93 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: .10 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.99 - 4.83) x .16 = 2.9 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = (P) 0 gal + (0.041 x (D) 0.625 in. x (D) 0.625 in. x (L) 40 ft.)+ (Fc) .25 gal = .25 gal

3 Well/Equipment Volumes = .75 gallons Purge Method: X Pump ___ Bailer Type: PERISTALTIC GEOPUMP 2

Purge Rate: .11 gpm Purged Volume (actual): 4.16 gallons Purge Water Contained? __ Yes X No

Container Used: __ 55 Gallon Drum ___ Other (_____) Labeled: __ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: .08 gpm

Sample ID: MW-15A Time Collected: 12:05

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: C.5

Sample Appearance (color, odor, etc.): CLEAR

Final Values: Temp: 28.30 °C pH: 4.27 Conductivity: 0.109 mS/cm ORP: 142.4 mV

Salinity: — % Turbidity: 4.5 NTU DO: 0.37 mg/L Other:

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: APP I VOAS, EDB, DBCP, APP I METALS NH3, TL, CL, NO3, TDS

Sample Bottles Filled: 6 40 ml vials 2 1 liter amber glass 2 250 ml plastic 2 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7-26-04 Sampled By: C. JONES

Station (Well No.): MW-15A WACS ID: 19941 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): Geopump 2 Purge Rate: .08 gpm Water Quality Meter (Make & Model) YSI Water Level Meter: Solinst

Time @ Start of Purging: 11:10 Time @ End of Purging: 12:03 Total Purging Time: 53 min Depth of Pump or Intake Tubing: 16 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
11:31	.08	1.68	29.76	4.61	0.116	3.7	118.5	0.98	CLEAR	4.83	
11:38	.56	~~1.56~~ 2.24	30.01	4.52	0.109	5.9	123.9	1.54	CLEAR	4.90	
11:41	.24	2.48	30.29	4.51	0.108	6.1	126.4	0.67	CLEAR	4.90	
11:44	.24	2.72	30.44	4.52	0.109	6.2	128.4	0.89	CLEAR	4.90	
11:47	.24	2.96	30.28	4.46	0.109	5.6	130.9	0.26	CLEAR	4.90	
11:51	.24	3.20	28.70	4.27	0.108	5.4	137.1	0.28	CLEAR	4.90	
11:54	.24	3.44	28.90	4.22	0.108	5.3	142.4	0.27	CLEAR	4.91	
11:57	.24	3.68	28.44	4.22	0.108	5.1	141.4	0.26	CLEAR	4.93	
12:00	.24	3.92	28.34	4.29	0.108	4.8	140.6	0.93	CLEAR	4.93	
12:03	.24	4.16	28.30	4.27	0.109	4.5	142.4	0.37	CLEAR	4.93	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-15A Time Collected: 12:05 Comments: _____

Well Inspection & Sampling Log

Site: [redacted] OAK HAMMOCK Project No.: FRD1638 Task: 01 Date: 8-5 [redacted] 2004

Station (Well No.): MW-15B(R) Performed by: C. JONES
WACS # 19943

Field Conditions/Observations: PARTY SUNNY TEMP IN MID 80's

Well Inspection:

Well Type: X Flush Mount ___ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): LOCKED, GOOD CONDITION

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 4.44 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 48.40 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 6.94 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 2.50 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: X Yes ___ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (48.40-4.44) x 0.16 = 7.0 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

5 WELL Volumes = 35.1 gal

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = _____ gallons Purge Method: X Pump ___ Bailer Type: GRUNDFOS

Purge Rate: 1.42 gpm Purged Volume (actual): 115.02 gallons Purge Water Contained? X Yes ___ No

Container Used: X 55 Gallon Drum ___ Other (_____) Labeled: X Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.42 gpm

Sample ID: MW-15B(R) Time Collected: 10:55

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: C.T

Sample Appearance (color, odor, etc.): CLOUDY

Final Values: Temp: 23.83 °C pH: 3.21 Conductivity: 0.078 mS/cm ORP: 207.0 mV

Salinity: — % Turbidity: 207 NTU DO: 0.26 mg/L Other:

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: APPI VOAS, EDB, DBCP, APPI METALS
NH3, TL, CL, NO3, TL, DISS APPI METS DISS-TL

Sample Bottles Filled: 6 40 ml vials 0 1 liter amber glass 3 250 ml plastic 3 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: OAK HAMMOCK Project No.: FQ0638 Task: 01 Date: 8-5-04 Sampled By: E. JONES

Station (Well No.): MW-15B(R) Purge Method: Pump X Bailer ☐ Pump Type: X Submersible (__ Teflon __ SS __ Other) ___ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): GRUNDFOS - REDI-FLO Purge Rate: 1.42 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 09:30 Time @ End of Purging: 10:51 Total Purging Time: 1hr 21 min Depth of Pump or Intake Tubing: 43 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	Eh (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
09:50	28.4	28.4	23.85	3.85	0.090	139.0	130.0	0.46	CLOUDY	4.44	
10:04	19.88	48.28	23.83	3.85	0.085	205.3	135.0	0.31	CLOUDY	6.94	
10:08	5.68	53.96	23.83	3.71	0.085	104.0	139.0	0.29	CLOUDY	6.92	
10:45	52.54	106.5	23.83	3.13	0.079	201.	193.0	0.26	CLOUDY	6.92	
10:48	4.26	110.76	23.79	3.20	0.078	200	197.0	0.26	CLOUDY	6.94	
10:51	4.26	115.02	23.83	3.21	0.078	207	207.0	0.26	CLOUDY	6.94	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-15B Time Collected: 10:55 Comments: TURBIDITY 24.2 NTUS W/FILTER

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0638 Task: 01 Date: 7/29/2004

Station (Well No.): MW-15C WACS ID: 19944 Performed by: S. JONES

Field Conditions/Observations: SUNNY TEMP. IN HIGH 80S

Well Inspection:

Well Type: __ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): LOCKED, GOOD CONDITION

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: CAP removed And Allowed to STABILIZE
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 4.66 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 72.57 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 19.72 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 15.06 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (72.57 - 4.66) x .16 = 10.8 gal
Well Capacity (gal/ft): 0.75" = 0.02; 1"=0.04; 1.25"=0.06; 2"=0.16; 3"=0.37; 4"=0.65; 5"=1.02; 6"=1.47; 12"=5.88

5 WELL VOLUMES = 54.3 gal

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* .0625 in. x *(D)* .0625 in. x *(L)* 75 ft.)+ *(Fc)* .25 gal = .26 gal

3 Well/Equipment Volumes = .78 gallons Purge Method: X Pump ___ Bailer Type: GRUNDFOS Redi-Flo

Purge Rate: 1.79 gpm Purged Volume (actual): 64.44 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 1.79 gpm

Sample ID: MW-15C Time Collected: 1555

QA Sample Collected (i.e., Blind Duplicate) X Yes ___ No QA Sample ID: JR, CJ

Sample Appearance (color, odor, etc.): CLEAR, NO Detectable ODOR

Final Values: Temp: 24.05 °C pH: 5.37 Conductivity: 0.095 mS/cm ORP: 37.5 mV

Salinity: ✓ % Turbidity: 10.9 NTU DO: 0.15 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: APPI VOAs, APPI Metals NH3, TL, CL, NO3, TDS, EDB, DBCP

Sample Bottles Filled: 12 40 ml vials 0 1 liter amber glass 4 250 ml plastic 4 500 ml plastic ___ ( )

pH Verification of Preserved Samples: Analysis 7470 / 6010 Required pH <2 Measured pH _____

Laboratory Performing Analysis: STL- Tampa West

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 7/29/04 Sampled By: C. Jones, J. Ramirez

Station (Well No.): MW-15C WACS ID: 19944 Purge Method: (Pump) Bailer Pump Type: X Submersible (__ Teflon __ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos RedI-Flo Purge Rate: 1.79 gpm Water Quality Meter (Make & Model) - YSI 650 MDS Water Level Meter: Solinst

Time @ Start of Purging: 1515 Time @ End of Purging: 1551 Total Purging Time: 36 min Depth of Pump or Intake Tubing: 68 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1525	17.9	17.9	24.10	5.32	0.090	30.7	64.8	0.63	clear	4.66	
1535	17.9	35.8	24.07	5.32	0.090	14.6	53.4	0.20	clear	19.57	
1545	17.9	53.7	24.08	5.35	0.093	11.2	42.6	0.15	clear	19.68	
1548	5.37	59.07	24.05	5.36	0.094	10.8	39.5	0.15	clear	19.70	
1551	5.37	64.44	24.05	5.37	0.095	10.9	37.5	0.15	clear	19.72	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above ~~the screened zone, purge minimum of one~~ well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-15C Time Collected: 1555 Comments: Duplicate (Dup-02) collected with Sample, No Filter

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0638 Task: 01 Date: 8/5/04 Sampled By: James Ramirez

Station (Well No.): Pond-3 LEACHATE POND WACS ID: _____ Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): Geopump 2 Purge Rate: .13 gpm Water Quality Meter (Make & Model) YSI 650 MDS Water Level Meter: SolinST

Time @ Start of Purging: 1340 Time @ End of Purging: 1343 ~~minor~~ Total Purging Time: 3 min Depth of Pump or Intake Tubing: 15 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1343	.39	.39	28.22	4.88	0.478	0	27.2	0.99	Yellow Tint	—	
~	Very Cloudy with Strong Winds From the West										~

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the ~~screened zone, purge minimum of one well volume~~ prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: LEA-Pond-3 Time Collected: 1345 Comments: _____

APPENDIX B

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID 89544) Project No.: F Q 0638 Task: 01 Date: 7/26/04

Instrument Make: YSI Instrument Model Number: 650 MDS Instrument Serial Number: 02630

Rental Company: Pine Environmental

Time: 1000

Calibration Standard			Instrument Response		Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value							
3390	11-24-05	pH = 4.0	4.83	3.99			yes	C F JR	JR
3472	2-6-05	pH = 7.0	6.68	7.00			yes	C F	JR
0.5 8939-24	2-6	pH = 10.0	10.31	10.00			yes	C F	JR
3081	3-28-05	Turbidity = 0.0 NTU	0.2	0			yes	C F	JR
		Turbidity = 1.0 NTU							
4250	10/23/04	Turbidity = 200 NTU	198.6	200.0			yes	C F	JR
		Turbidity = 50 NTU							
4066	9-4-05	Conductivity = mS	1.404	1.412			yes	C F	JR
		Conductivity = mS							
	Per Table →	D.O. = 7.57 mg/L @ 29.9 °C	7.5	100%			yes	C F	JR
443	8/06	ORP (240 mv)	230.3	200			yes	C F	JR

Time: 10:40 LAMOTTE MODEL NO: 2020 INSTRUMENT SERIAL NO. - 00635 7/26/04

Calibration Standard			Instrument Response		Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value							
		pH = 4.0							
		pH = 7.0							
		pH = 10.0							
	—	Turbidity = 0.0 NTU	0.8	0			yes	C F	C5
		Turbidity = 1.0 NTU	~~3.0~~	~~1.0~~ JR					
	—	Turbidity = 10 NTU	9.70	10			yes	C F	C5
		Turbidity = 50 NTU							
		Conductivity = mS							
		Conductivity = mS							
	Per Table →	D.O. = mg/L @ °C							

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100
Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L
Note (3): Initial, Continual, Final

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID 89544) Project No.: F.Q.0638 Task: 01 Date: 7/27/04

Instrument Make: YSI 650 MDS Instrument Model Number: YST 650 MDS Instrument Serial Number: 02630

Rental Company: PINE Environmental

Time: 0745

Calibration Standard			Instrument Response		Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value							
3390	11-24-05	pH = 4.0	3.73	4.0			yes	F	JR
3472	2-6-05	pH = 7.0	7.15	7.03			yes	F	JR
038939-24	2-6	pH = 10.0	10.34	10.06			yes	F	JR
3081	3-28-05	Turbidity = 0.0 NTU	-0.2	0			yes	F	JR
		Turbidity = 1.0 NTU							
4250	10-23-04	Turbidity = 200 NTU	196.6	199.9			yes	F	JR
		Turbidity = 50 NTU							
4066	9-4-05	Conductivity = 1.413 mS/cm	1.377	1.413			yes	F	JR
		Conductivity = mS							
	Per Table →	D.O. = 1.555 mg/L @ 28.4 °C	7.76	100%			yes	F	JR
6167	7-05	ORP (240 mV)	181.6	200			yes	F	JR

Time: 09:55 Instr Make YSI Intrument model Number 650 MDS Instro Serial Number 03342 7/27/04

Calibration Standard			Instrument Response		Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value	Initial Cal.						
3390	11-24-05	pH = 4.0	4.15	4.0			yes	F	CJ
3472	2-6-05	pH = 7.0	6.87	7.0			yes	F	CJ
38939-24	2-6	pH = 10.0	10.17	10.02			yes	F	CJ
		Turbidity = 0.0 NTU							
3081	3-28-05	Turbidity = 0.0 NTU	-0.9	0.0			yes	F	CJ
4250	10-23-05	Turbidity = 200 NTU	179.0	199.9			yes	F	CJ
		Turbidity = 50 NTU							
4066	9-4-05	Conductivity = 1413 mS/cm	1.398	1.415			yes	F	CJ
		Conductivity = mS							
	Per Table →	D.O. = 7.99 mg/L @ 26.8 °C	100%	100%			yes	F	CJ
6167	7-05	ORP 240 mV	204.6	240.1			yes	F	CJ

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100

Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L

Note (3): Initial, Continual, Final

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID 89544) Project No.: F Q 0638 Task: 01 Date: 7/28/04

Instrument Make: YSI 650 MDS Instrument Model Number: YSI 650 MDS Instrument Serial Number: 02630

Rental Company: Pine Environmental

Time: 7:40

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
3390	11-24-05	pH = 4.0	4.14 | 3.99			Yes	F	JR
3472	2-6-05	pH = 7.0	6.86 | 7.00			Yes	F	JR
038939-24	2-6	pH = 10.0	10.09 | 10.06			Yes	F	JR
3081	3-28-05	Turbidity = 0.0 NTU	0.2 | 0			Yes	F	JR
		Turbidity = 1.0 NTU						
4250	10-23-04	Turbidity = 200 NTU	1950 | 200			yes	F	JR
		Turbidity = 50 NTU						
4066	9-4-05	Conductivity = 1.413 mS	1.389 | 1.414			yes	F	JR
		Conductivity = mS						
	Per Table →	D.O. = 8.28 mg/L @ 24.87 °C	100%			yes	F	JR
443	08/06	ORP (240 mv)	202.2 | 200			yes	F	JR

Time:

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
		pH = 4.0						
		pH = 7.0						
		pH = 10.0						
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
		Conductivity = mS						
		Conductivity = mS						
	Per Table →	D.O. = mg/L @ °C						

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100

Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L

Note (3): Initial, Continual, Final

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID 89544) Project No.: F Q 0638 Task: 01 Date: 7-28-04

Instrument Make: YSI Instrument Model Number: 650 MDS Instrument Serial Number: 03342

Rental Company: PINE ENVIRO.

Time: 07:45

Calibration Standard			Instrument Response		Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value							
3390	11-24-05	pH = 4.0	3.98	4.00			YES		C.J
3477	2-6-05	pH = 7.0	7.01	7.00			YES		C.J
038939-24	2-6	pH = 10.0	10.07	10.00			YES		C.J
3081	3-28-05	Turbidity = 0.0 NTU	-2.3	0.0			YES		C.J
		Turbidity = 1.0 NTU	206	200			YES		C.J
4250	10-23-04	Turbidity = 200 NTU C.J	~~196~~	~~190~~			YES		C.J
		Turbidity = 50 NTU							
4066	9-4-05	Conductivity = mS	1.405	1.414			YES		C.J
		Conductivity = mS							
	Per Table →	D.O. = 7.35 mg/L @ 21.62°C	100% →				~~NO~~ YES		C.J
6167	7-05	ORP 240mV	238.5	240.1			NO		

Comments: ~~WAS NOT ABLE TO CALIBRATE~~ THE DO READING WERE OUT OF RANGE.

Time:

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
		pH = 4.0						
		pH = 7.0						
		pH = 10.0						
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
		Conductivity = mS						
		Conductivity = mS						
	Per Table →	D.O. = mg/L @ °C						

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100
Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L
Note (3): Initial, Continual, Final

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID 89544) Project No.: F Q 0638 Task: 01 Date: 7/29/04

Instrument Make: YSI 650 MDS Instrument Model Number: YSI 650 MDS Instrument Serial Number: 02630

Rental Company: PINE ENVIRONMENTAL

Time: 0900

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
3390	11-24-05	pH = 4.0	4.01 | 4.0			yes	F	JR
3472	2-6-05	pH = 7.0	6.95 | 7.0			yes	F	JR
03639-24	2-6	pH = 10.0	10.07 | 10.01			yes	F	JR
3081	3-28-05	Turbidity = 0.0 NTU	0.1 | 0.0			yes	F	JR
4250		Turbidity = 1.0 NTU						
↓	10-23-04	Turbidity = 200 NTU	194.1 | 200			yes	F	JR
4066		Turbidity = 50 NTU						
↓	9-4-05	Conductivity = 1.413 mS/cm	1.395 | 1.413			yes	F	JR
		Conductivity = mS						
	Per Table →	D.O. = ~~8.25~~ mg/L @ ~~24.8~~ °C	100%			yes	F	JR
6167		ORP (240 mV)	212.3 | 200			yes	F	JR

Time: 0925 TURBIDITY METER — (LAMOTTE) 7/29/04 - INSTRUMENT SERIAL: 00635

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
		pH = 4.0						
		pH = 7.0						
		pH = 10.0						
		Turbidity = 0.0 NTU	0.3 0			yes	F	JR
	—	Turbidity = 1.0 NTU	~~1.1 | 0~~			~~yes~~		
	—	Turbidity = 10 NTU	7.89 | 10			yes	F	JR
		Turbidity = 50 NTU						
		Conductivity = mS						
		Conductivity = mS						
	Per Table →	D.O. = mg/L @ °C						

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100
Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L
Note (3): Initial, Continual, Final

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID 89544) Project No.: F Q 0638 Task: 01 Date: 7/30/04

Instrument Make: YSI Instrument Model Number: 650 MDS Instrument Serial Number: 05305/03342

Rental Company: Dive Environmental

Time: 0930

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
3390	11-24-05	pH = 4.0	4.06 | 4.0			yes	F	JR
3472	2-6-05	pH = 7.0	6.98 | 7.0			yes	F	JR
03893924	2-06	pH = 10.0	10.08 | 10.01			yes	F	JR
3081	3-05	Turbidity = 0.0 NTU	2.8 | 0.0			yes	F	JR
		Turbidity = 1.0 NTU						
4250	10/23-04	Turbidity = 200 NTU	198.3 | 200			yes	F	JR
		Turbidity = 50 NTU						
4066	9-4-05	Conductivity = 1.413 mS/cm	1.438 | 1.413			yes	F	JR
		Conductivity = mS						
	Per Table →	D.O. = 7.82 mg/L @ 28.02 °C	100%			yes	F	JR
691	12-06	ORP (240 mV)	191.9 | 200			yes		JR

Time: 0940 LA-MOTTE - 2020 - Turbidity Meter Serial Number: 00635 7/30/04

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
		pH = 4.0						
		pH = 7.0						
		pH = 10.0						
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU	1.1 | 1.0			yes	F	JR
		Turbidity = 10 NTU	9.8 | 10			yes	F	JR
		Turbidity = 50 NTU						
		Conductivity = mS						
		Conductivity = mS						
	Per Table →	D.O. = mg/L @ °C						

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100
Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L
Note (3): Initial, Continual, Final

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID 89544) Project No.: F Q 0638 Task: 01 Date: 8/2/04

Instrument Make: YSI Instrument Model Number: 650 MDS Instrument Serial Number: 05305/03342

Rental Company: Pine Environmental

Time: 1000

Calibration Standard			Instrument Response		Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value							
3390	11-24-05	pH = 4.0	3.96	4.0			yes	F	JR
3472	2-6-05	pH = 7.0	7.0	7.0			yes	F	JR
038939-24	2-06	pH = 10.0	10.08	10.01			yes	F	JR
3081	3-28-05	Turbidity = 0.0 NTU	-0.3	0.0			yes	F	JR
		Turbidity = 1.0 NTU							
4250	10-23-04	Turbidity = 10 NTU	193.6	200			yes	F	JR
		Turbidity = 50 NTU							
4066	9-4-05	Conductivity = 1.413 mS/cm	1.331	1.413			yes	F	JR
		Conductivity = mS							
	Per Table →	D.O. = 7.96 mg/L @ 27.05°C	100%				yes	F	JR
691	12-06	ORP (240 mv)	198.5	200.2			yes	F	JR

Time: 1030 LA MOTTE - 2020 - TURBIDITY METER Serial: 00635 8/2/04

Calibration Standard			Instrument Response		Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value							
		pH = 4.0							
		pH = 7.0							
		pH = 10.0							
		Turbidity = 0.0 NTU							
		Turbidity = 1.0 NTU	1.0	1.0			yes	F	JR
		Turbidity = 10 NTU	11.4	10.0			yes	F	JR
		Turbidity = 50 NTU							
		Conductivity = mS							
		Conductivity = mS							
	Per Table →	D.O. = mg/L @ °C							

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100
Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L
Note (3): Initial, Continual, Final

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID 89544) Project No.: F Q 0638 Task: 01 Date: 8/3/04

Instrument Make: YSI Instrument Model Number: 650 MDS Instrument Serial Number: 05305 / 03342

Rental Company: Pine Environmental

Time: 0900

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
3390	11-24-05	pH = 4.0	4.02 | 4.0			Yes	F	JR
3472	2-6-05	pH = 7.0	6.97 | 7.0			Yes	F	JR
0389 39-24	2-06	pH = 10.0	10.08 | 10.01			Yes	F	JR
3081	3-28-05	Turbidity = 0.0 NTU	0.0 | 0.0			Yes	F	JR
		Turbidity = 1.0 NTU						
4250	10-23-05	Turbidity = 200 NTU	196.6 | 200			Yes	F	JR
		Turbidity = 50 NTU						
4066	9-4-05	Conductivity = 1.413 mS/cm	1.420 | 1.413			Yes	F	JR
		Conductivity = mS						
	Per Table →	D.O. = 8.11 mg/L @ 26.1 °C	100%			Yes	F	JR
691	12-06	ORP (240 MV)	196.9 | 200.4			Yes	F	JR

Time: 0930 LA - MOTTE - 2020 Turbidity meter Serial: 00635 8/3/04

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
		pH = 4.0						
		pH = 7.0						
		pH = 10.0						
		Turbidity = 0.0 NTU						
—		Turbidity = 1.0 NTU	1.4 | 1.1			Yes	F	JR
—		Turbidity = 10 NTU	9.8 | 10			Yes	F	JR
		Turbidity = 50 NTU						
		Conductivity = mS						
		Conductivity = mS						
	Per Table →	D.O. = mg/L @ °C						

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100

Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L

Note (3): Initial, Continual, Final

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID 89544) Project No.: F Q 0638 Task: 01 Date: 8/4/04

Instrument Make: YSI Instrument Model Number: 650 MDS Instrument Serial Number: 05305/03342

Rental Company: PINE ENVIRONMENTAL

Time: 0700

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
3390	11-24-05	pH = 4.0	4.10 / 4.0			yes	F	JR
3472	2-6-05	pH = 7.0	6.96 / 7.0			yes	F	JR
038939-24	2-06	pH = 10.0	10.08 / 10.01			yes	F	JR
3081	3-28-05	Turbidity = 0.0 NTU	0.1 / 0.0			yes	F	JR
		Turbidity = 1.0 NTU						
4250	10-23-04	Turbidity = 200 NTU	206 / 200			yes	F	JR
		Turbidity = 50 NTU						
4066	9-4-05	Conductivity = 1.413 mS/cm	1.387 / 1.413			yes	F	JR
		Conductivity = mS						
	Per Table →	D.O. = 8.25 mg/L @ 25.0 °C	100%			yes	F	JR
691	12-06	ORP (240 mV)	201.4 / 200.2			yes	F	JR

Time: 0725 LA-MOTTE-2020-TURBidity METER Serial: 00635 8/4/04

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
		pH = 4.0						
		pH = 7.0						
		pH = 10.0						
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU		LA MOTTE NOT WORKING				
		Turbidity = 50 NTU						
		Conductivity = mS						
		Conductivity = mS						
	Per Table →	D.O. = mg/L @ °C						

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100
Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L
Note (3): Initial, Continual, Final

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID 89544) Project No.: F Q 0638 Task: 01 Date: 8-5-04

Instrument Make: YSI Instrument Model Number: 650 MDS Instrument Serial Number: 03342

Rental Company: PING ENVIR.

Time: 06:30

Calibration Standard			Instrument Response		Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value							
3390	11-24-05	pH = 4.0	4.07	4.00					
3472	2-06-05	pH = 7.0	6.90	7.00					
038939-24	2-06	pH = 10.0	10.14	10.02					
3081	3-28-05	Turbidity = 0.0 NTU	0.2	0.0					
4250	10-23-04	Turbidity = 200 NTU	197.5	200					
		Turbidity = 10 NTU							
		Turbidity = 50 NTU							
4066	9-4-05	Conductivity = 1.413 mS	1.383	[illegible]					
		Conductivity = mS							
—	Per Table →	D.O. = 8.40 mg/L @ 24.0 °C	[illegible]	[illegible]					
691	12-06	ORP (200 mV)	[illegible]						

Time: YSI 650 MDS SERIAL NUMBER 02630

Calibration Standard			Instrument Response		Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value							
3390	11-24-05	pH = 4.0	4.08	4.01					
3472	2-06-05	pH = 7.0	6.76	7.00					
038939-24	2-06	pH = 10.0	10.13	10.00					
3081	3-28-05	Turbidity = 0.0 NTU	1.4	0.0					
	10-23-04	Turbidity = 200 NTU	178	200					
		Turbidity = 10 NTU							
		Turbidity = 50 NTU							
4066	9-4-05	Conductivity = mS	1.283	1.413					
		Conductivity = mS							
—	Per Table →	D.O. = 8.12 mg/L @ 25.9 °C	100%	100%					
691	12-06	ORP (200 mV)	216	200					

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100

Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L

Note (3): Initial, Continual, Final

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID 89544) Project No.: F Q 0638 Task: 01 Date: 8/9/04

Instrument Make: YSI Instrument Model Number: 650 MDS Instrument Serial Number: 02 680

Rental Company: Pine Environmental

Time: 1030

Calibration Standard			Instrument Response		Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value							
3390	11-24-05	pH = 4.0	4.06	4.00			yes	F	JR
3472	2-6-05	pH = 7.0	6.99	7.00			yes	F	JR
03 8939-24	2-06	pH = 10.0	10.26	10.05			yes	F	JR
3081	3-28-05	Turbidity = 0.0 NTU	-1.6	0.0			yes	F	JR
		Turbidity = 1.0 NTU							
4250	10-23-04	Turbidity = 200 NTU	1928	200			yes	F	JR
		Turbidity = 50 NTU							
4066	9-7-05	Conductivity = 1.413 mS/cm	1.392	1.415			yes	F	JR
		Conductivity = mS							
	Per Table →	D.O. = 7.85 mg/L @ 27.8°C	100%				yes	F	JR
691	12-06	ORP (240 mv)	184.9	200			yes	F	JR

Time:

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
		pH = 4.0						
		pH = 7.0						
		pH = 10.0						
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
		Conductivity = mS						
		Conductivity = mS						
	Per Table →	D.O. = mg/L @ °C						

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100
Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L
Note (3): Initial, Continual, Final

APPENDIX C

Serial Number 14770

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

STL Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.stl-inc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
OHDF	FQ0638	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KIRK WILLS	(813) 558-0990	(813) 558-9726
CLIENT NAME	CLIENT E-MAIL	
GEOSYNTEC	KWILLS@GEOSYNTEC.COM	
CLIENT ADDRESS		
14055 RIVEREDGE DR. SUITE 300 TAMPA FL 33637		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ☒
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: APP I VOAs	EDB, DBCP	APP I METALS	NH3	TL	CL, NO3, TDS	DISS(FE, MG, NA, APP I MET)	DISS-TL	REMARKS
								HCl	1	HNO3	H2SO4	HNO3	1			
7-26-04	~~16:05~~ 11:10	MW-14A	G	X				3	3	1	1	1	1	X	X	
7-26-04	12:05	MW-15A	G	X				3	3	1	1	1	1			
7-26-04	12:45	MW-1A	G	X				3	3	1	1	1	1			
7-26-04	13:55	MW-2A	G	X				3	3	1	1	1	1			
7-26-04	14:40	MW-3A	G	X				3	3	1	1	1	1			
7-26-04	16:05	MW-4A	G	X				3	3	1	1	1	1	1	1	
7-26-04		TRIP BLANK	G	X				3	6							

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	7-19-04	1508		7-26-04	17:22			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	7-20-04	1200		7/26/04	17:22			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	STL TAMPA LOG NO.	LABORATORY REMARKS

Serial Number 14772

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

STL Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.stl-inc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location

Phone:
Fax:

(3)

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
OHDF	FR0638	FL	1	1

SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
Clarence Jones		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KIRK WILLS	(813) 558-0970	(813) 558-9726

CLIENT NAME	CLIENT E-MAIL
GEOSYNTEC	KWILLS@GEOSYNTEC.com

CLIENT ADDRESS
14055 RIVEREDGE DR. SUITE 300 TAMPA. FL. 33637

COMPANY CONTRACTING THIS WORK (if applicable)

STANDARD REPORT DELIVERY ☒

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: APPT VOAS HCl	EDB, DBCP 1	APPT METALS HNO3	NH_3 H_2SO_4	TL HNO3	Cl, NO_3, TDS 1	Dissolved Mg, Na HNO3	Appt Metals (Mn, Fe) HNO3	Diss Fe		NUMBER OF CONTAINERS SUBMITTED								REMARKS
7-27-04	10:05	MW-5A	G	X				3	3	1	1	1	1	1	1										
7-27-04	10:45	MW-6A	G	X				3	3	1	1	1	1												
7-27-04	12:35	MW-7A	G	X				3	3	1	1	1	1	1	1										
1-27-04	12:45	MW-8A	G	X				3	3	1	1	1	1												
1-27-04	14:40	MW-9A	G	X				3	3	1	1	1	1												
7-27-04	14:25	MW-10A	G	X				3	3	1	1	1	1												
7-27-04	15:20	EB-01	G	X				3	3	1	1	1	1												
7-27-04	16:30	MW-11A	G	X				3	3	1	1	1	1												
7-27-04	16:30	MW-12A	G	X				3	3	1	1	1	1												

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	7/19/04	1510	Clarence Jones	7-27-04	17:19			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
Clarence Jones	7-27-04	09:00	[signature]	7/27/04	17:19			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	STL TAMPA LOG NO.	LABORATORY REMARKS

STL8240-660 (12/02)

Serial Number 14780

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

STL Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.stl-inc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
OHDT	FQ0638	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
Clarence Jones		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KIRK WILLS	(813) 558-9990	(813) 558-9726
CLIENT NAME	CLIENT E-MAIL	
GEOSYNTEC	KWILLS@GEOSYNTEC.com	
CLIENT ADDRESS		
14055 RIVEREDGE DR. SUITE 300 TAMPA FL. 33637		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ⊗

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE 2

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: APPI VOA's	EDB, DBCP	APPI METALS	NH3	TL	CL, NO3, TDS	DISSOLVED IC, NA APPI MET)	DISS TL			REMARKS
								HCl	1	HNO3	H2SO4	HNO3	1	HNO3	HNO3			
								NUMBER OF CONTAINERS SUBMITTED										
7-28-04	11:15	MW-13A	G	X				3	3	1	1	1	1					
7-28-04	12:20	MW-11B	G	X				3	3	1	1	1	1	1	1			
7-28-04	14:35	MW-4A	G	X				3	3	1	1	1	1	1	1			
7-28-04	17:30	MW-15B	G	X				3	3	1	1	1	1	1	1			

RESAMPLE NEEDED BECAUSE SAMPLES WERE LOST BY UPS

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
			Clarence Jones	7-28-04	1806			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
Clarence Jones	7-29-04	09:00	Jim Beard	7/28/04	1806			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	STL TAMPA LOG NO.	LABORATORY REMARKS

STL8240-660 (12/02)

Serial Number 14782

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

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6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.stl-inc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
DHDF	FQ0638	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KIRK WILLS	(813) 558-0990	(813) 558-9726
CLIENT NAME	CLIENT E-MAIL	
GEOSYNTEC	KWILLS@GEOSYNTEC.com	
CLIENT ADDRESS		
14055 RIVEREDGE DR. SUITE 300 TAMPA FL 33637		
COMPANY CONTRACTING THIS WORK (if applicable)		

MATRIX TYPE (COMPOSITE (C) OR GRAB (G) INDICATE): AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT,...)

REQUIRED ANALYSIS: 8081, 8082 PCB; 8151, 8270 BNA, 2,4D, 2,4,5-TP LEAD; BTEX/8260 TOC; CYANIDE; NH3; TL; TCL METALS; AS, HG, NA, AL, SB, CR, FE, MG, MN, NI, K, SE, V, ZN; CLP VOA; EDB, DBCP; SULFIDE

NUMBER OF CONTAINERS SUBMITTED: 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 1

PAGE 1 OF 1

STANDARD REPORT DELIVERY ☒
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1 TWB 7/28/04

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
7-28-04	16:00	LEA - POND-CT-3	G	X				12 1 1 1 1 1 3 3 1	

RC SAMPLES NEEDED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
				7-28-04	18:00			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	7-28-04	09:00		7/28/04	18:00			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	STL TAMPA LOG NO.	LABORATORY REMARKS

STL8240-660 (12/02)

Serial Number 14778

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

STL Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.stl-inc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
OHDF	FQ0638	FL.	1	1

SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
Clarence Jones Jim Beck		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KIRK WILLS	(813)558-0990	(813)558-9776

CLIENT NAME	CLIENT E-MAIL
GEOSYNTEC	KWILLS@GEOSYNTEC.COM

CLIENT ADDRESS
14055 RIVEREDGE DR SUITE 300 TAMPA. FL. 33637

COMPANY CONTRACTING THIS WORK (if applicable)

STANDARD REPORT DELIVERY ⊗
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: APP I VOAS (HCl)	EOB, OBCD (1)	APP I METALS (HNO3)	NH3 (H_2SO_4)	TL (HNO3)	CL, NO3, TDS (1)	DISS(FE, HG, NA, APP I MET.) (HNO3)	OIST-TL (HNO3)	REMARKS
7-29-04	09:45	MW-14B	G	X				3	3	1	1	1	1	1	1	
7-29-04	—	DUP-01	G	X				3	3	1	1	1	1	1	1	
7-29-04	12:45	MW-1B	G	X				3	3	1	1	1	1	1	1	
7-29-04	14:10	MW-1C	G	X				3	3	1	1	1	1	1	1	
7-29-04	1025	MW-14C	G	X				3	3	1	1	1	1	1	1	
7-29-04	1555	MW-15C	G	X				3	3	1	1	1	1			
7-29-04	—	DUP-02	G	X				3	3	1	1	1	1			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
C			Clarence Jones	7-29-04	17:00			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
Clarence Jones	7-28-04	09:00	Jim Beck	7/29/04	17:00			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	STL TAMPA LOG NO.	LABORATORY REMARKS

Serial Number 14781

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

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6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.stl-inc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
OHDF	FEQ0638	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
Clarence Ogne		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KIRK WILLS	(813)558-0990	(813)5589726
CLIENT NAME	CLIENT E-MAIL	
GEOSYNTEC	KWILLS@GEOSYNTEC.COM	
CLIENT ADDRESS		
14055 RIVEREDGE DR. SUITE 300 TAMPA. FL		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX TYPE: AQUEOUS (WATER)	MATRIX TYPE: SOLID OR SEMISOLID	MATRIX TYPE: AIR	MATRIX TYPE: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: APPI VOAs (HCl)	EDB, DBCP (1 HNO3)	APPI metals (HNO3)	NH3 (H2SO4)	TL (HNO3)	Cl, NO3, TDS (1 HNO3)	Diss (Fe, Mn, Na, Appl. Met.) (HNO3)	Diss-TL (HNO3)	REMARKS
7-30-04	11:00	mw-2B	G	X				3	3	1	1	1	1	1	1	
7-30-04	11:00	mw-2C	G	X				3	3	1	1	1	1	1	1	
7-30-04	13:30	mw-3B	G	X				3	3	1	1	1	1	1	1	
7-30-04	12:10	mw-3C	G	X				3	3	1	1	1	1	1	1	
7-30-04	16:12	mw-4B	G	X				3	3	1	1	1	1	1	1	
7-30-04	15:55	mw-4C	G	X				3	3	1	1	1	1	1	1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
			Clarence Ogne	7-30-04	17:45			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
Clarence Ogne	7-29-04	08:45	Jim Brooks	7-30-04	17:45			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	STL TAMPA LOG NO.	LABORATORY REMARKS

STL8240-660 (12/02)

Serial Number 14616

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

STL Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

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Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
OHDF	FQ0638	FL.
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KIRK WILLS	813-558-0990	813-558-9726
CLIENT NAME	CLIENT E-MAIL	
GeoSyntec	KWills@GeoSyntec.com	
CLIENT ADDRESS		
14055 Riveredge DR. Suite 300, TAMPA, FL.		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ⊗
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: HCL APPI VOA'S	EDB, DACO	APPI METALS	NH3	TL	CL, NO3, TDS	Diss (FE, Mg, Mn, APPI METALS).	Diss - TL	NUMBER OF CONTAINERS SUBMITTED: HCL	HNO3	REMARKS
								HCL	1	HNO3	H2SO4	HNO3	1	HNO3	HNO3			
8-2-04	1150	MW-5B	G	X				3	3	1	1	1	1	1	1	1	1	NO DISS TAKEN
8-2-04	1210	MW-5C	G	X				3	3	1	1	1	1	1	1	1	1	NO DISS TAKEN
8-2-04	1510	MW-6B	G	X				3	3	1	1	1	1	1	1			
8-2-04	1430	MW-6C	G	X				3	3	1	1	1	1	1	1			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	7-12-04	1410		8-2-04	1656			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	7-29-04	0845		8/2/04	1656			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	STL TAMPA LOG NO.	LABORATORY REMARKS

STL8240-660 (12/02)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

STL Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.stl-inc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
OHDF	FQ0638	FL.
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
Clarence Jones		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KIRK WILLS	(813)558-0990	(813)558-9726
CLIENT NAME	CLIENT E-MAIL	
GEOSYNTEC	KWILLS@GEOSYNTEC.com	
CLIENT ADDRESS		
14055 RIVEREDGE DR. SUITE 300 TAMPA FL. 33637		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ☒
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: NUMBER OF CONTAINERS SUBMITTED — APP I VOAS (HCl)	EDB, DBCP (1)	APP I METALS (HNO3)	NH3 (H2SO4)	TL (HNO3)	Cl, NO3, TDS (1)	DISS (FE, MN, NA APP I MET) (HNO3)	DISS-TL (HNO3)			REMARKS
8-3-04	1310	MW-8B	G	X				3	3	1	1	1	1	1	1			
8-3-04	1305	MW-8C	G	X				3	3	1	1	1	1					
8-3-04	1500	MW-9B	G	X				3	3	1	1	1	1	1	1			
8-3-04	1505	MW-9C	G	X				3	3	1	1	1	1					
8-3-04	1050	MW-7B	G	X				3	3	1	1	1	1	1	1			
8-3-04	1055	MW-7C	G	X				3	3	1	1	1	1	1	1			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
			Clarence Jones	8-3-04	17:01			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
Clarence Jones	8-3-04	10:00	Tim Beals	8/3/04	5:01 p			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL TAMPA LOG NO.	LABORATORY REMARKS
			YES ○ NO ○			

STL8240-660 (12/02)

Serial Number 14784

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

STL Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.stl-inc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
OHDT	FQ0638	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
Clarence Jones		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KIRK WILLS	(813)558-9990	(813/558-9726
CLIENT NAME	CLIENT E-MAIL	
GEOSYNTEC	KWILLS@GEOSYNTEC.com	
CLIENT ADDRESS		
14055 RIVERREDGE DR. SUITE 300 TAMPA FL 33637		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ⊗
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX TYPE: AQUEOUS (WATER)	MATRIX TYPE: SOLID OR SEMISOLID	MATRIX TYPE: AIR	MATRIX TYPE: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: NUMBER OF CONTAINERS SUBMITTED — HCl: AFFL VOAS	EDB, DBCP	AFFL METALS	NH3	TL	Cl, NO3, TDS	DISS(FE, MG, NA AFFL ONLY)	DISS. TL	REMARKS
								HCl		HNO3	H2SO4	HNO3		HNO3	HNO3	
8-4-04	08:55	MW-10B	G	X				3	3	1	1	1	1	1	1	
8-4-04	08:55	MW-10C	G	X				3	3	1	1	1	1	1	1	
8-4-04	1035	MW-12B	G	X				3	3	1	1	1	1	1	1	
8-4-04	1030	MW-12C	G	X				3	3	1	1	1	1			
8-4-04	1225	MW-13B	G	X				3	3	1	1	1	1	1	1	
8-4-04	1225	MW-13C	G	X				3	3	1	1	1	1			
8-4-04	1455	MW-11B	G	X				3	3	1	1	1	1	1	1	
8-4-04	1450	MW-11C	G	X				3	3	1	1	1	1			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
C			Clarence Jones	8-4-04	1718			
RECEIVED BY: (SIGNATURE)	~~DATE~~ TIME	~~TIME~~ DATE	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
Clarence Jones	0847	~~8-4-04~~		8/4/04	1718			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	STL TAMPA LOG NO.	LABORATORY REMARKS

STL8240-660 (12/02)

Serial Number 06079

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

(X) STL Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.stl-inc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

( ) Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: DHDF	PROJECT NO.: FQ0638	PROJECT LOCATION (STATE): FL	PAGE 1 OF 1
SAMPLER'S SIGNATURE: Clarence Ames	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY (X)
CLIENT (SITE) PM: KIRK WILLS	CLIENT PHONE: (813)558-0990	CLIENT FAX: (813)558-9726	DATE DUE
CLIENT NAME: GEOSYNTEC	CLIENT E-MAIL: KWILLS@GEOSYNTEC.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ( )
CLIENT ADDRESS: 14055 RIVEREDGE DR. SUITE 300 TAMPA FL 33637			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: NUMBER OF CONTAINERS SUBMITTED	8081, 8082, 8141, 8151, 8270, BNA, 8270 LL PAH	BICARB, CL, NO3	TDS	CYANIDE	NH3	TL	FE, MG, MN	APPI METALS	APPI VOA	EDB; DBCP	SULFIDE	REMARKS
									1		1	1	1	1	1	1	3	3	1	
									Sodium Hydroxide			Sulfuric Acid	Nitric Acid		HNO3		HCl		Zinc Acetate / Sodium Hydroxide	
									PRESERVATIVE											
8-5-04	13:45	LEA-POND-3						12	1	1	1	1	1	1	1	1	3	3	1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Tim Bleh	8/4/04	1501	Clarence Ames	8-5-04	1711			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
Clarence Ames	8/4/04	17:15	Tim Bleh	8-5-04	1711			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ( ) NO ( )	CUSTODY SEAL NO.	STL TAMPA LOG NO.	LABORATORY REMARKS

STL8240-660 (12/02)

Serial Number 06080

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

STL Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.stl-inc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
OHDF	FQ0638	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
Clarissa Jones		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KIRK WILLS	(813)558-0990	(813)558-9726
CLIENT NAME	CLIENT E-MAIL	
GEOSYNTEC	KWILLS@GEOSYNTEC.com	
CLIENT ADDRESS		
14045 RIVERDGE DR SUITE 300 TAMPA FL 33637		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ☒
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: NUMBER OF CONTAINERS SUBMITTED: APPI VOAS	EDB, DBCP	APPI METALS	NH3	TL	CL, NO3, TDS	DISS(FE, HG, NA APPI MET)	DISS-TL			REMARKS
		PRESERVATIVE						HCl										
8-5-04	10:55	MW-15B(R)	G	X				3	3	1	1	1	1	1	1			
8-5-04	10:20	MW-13A(R)	G	X				3	3	1	1	1	1					
8-5-04	11:10	MW-4A(R)	G	X				3	3	1	1	1	1	1	1			
8-5-04	12:00	MW-8B(R)	G	X				3	3	1	1	1	1	1	1			
8-5-04	07:45	EB-2	G	X				3	3	1	1	1	1					

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Clarissa Jones	8-5-04	1711			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS	8-5-04	17:15		8/5/04	1711			
Clarissa Jones								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL TAMPA LOG NO.	LABORATORY REMARKS
			YES ○ NO ○			

STL8240-660 (12/02)

Serial Number 14773

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

STL Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.stl-inc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
OHAF	FQ0638	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Kirk Wills	813-558-0990	813-558-9726
CLIENT NAME	CLIENT E-MAIL	
GeoSyntec	Kwills@GeoSyntec.com	
CLIENT ADDRESS		
14055 RiverEdge Dr. Suite 300 Tampa, FL 33637		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ✓
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: TDS, TSS, BOD, NO3	T-Nitrogen, TKN, TP, Unionized NH3	TOC	TL	CHLOR A	HARDNESS, Fe, Hg APP I METALS	APP I VOA	EDB, DBCP	COD	Temp. C	PH
								1				1			1			
									H_2SO_4	H_2SO_4	HNO_3		HNO_3	HCL		H_2SO_4		
								NUMBER OF CONTAINERS SUBMITTED									REMARKS	
8-9-04	1145	SW-3	G	X				2	1	1	1	1	1	3	3	1	27.65	3.99
8-9-04	1255	SW-4	G	X				2	1	1	1	1	1	3	3	1	27.70	3.43
		TRIP BLANK		X										3				
		TRIP BLANK		X											3			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
CC				8-9-04	1715			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
CC	8-9-04			8-9-04	1715			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	STL TAMPA LOG NO.	LABORATORY REMARKS

STL8240-660 (12/02)

APPENDIX D

FLORIDA DEPARTMENT OF

HEALTH

State of Florida
Department of Health, Bureau of Laboratories

This is to certify that

E84282

STL Tampa

6712 Benjamin Road - Suite 100

Tampa, FL 33634

has complied with Florida Administrative Code 64E-1, for the examination of Environmental samples in the following categories:

Drinking Water

Group II Unregulated Contaminants, Microbiology, Other Regulated Contaminants, Primary Inorganic Contaminants, Secondary Inorganic Contaminants, Synthetic Organic Contaminants

Non-Potable Water

Extractable Organics, General Chemistry, Metals, Microbiology, Pesticides-Herbicides-PCB's, Volatile Organics

Solid and Chemical Materials

Extractable Organics, General Chemistry, Metals, Pesticides-Herbicides-PCB's, Volatile Organics

Continued certification is contingent upon successful on-going compliance with the NELAC Standards and FAC Rule 64E-1 regulations. Specific methods and analytes certified are cited on the Laboratory Scope of Accreditation for this laboratory and are on file at the Bureau of Laboratories, P. O. Box 210, Jacksonville, Florida 32231. Clients and customers are urged to verify with this agency the laboratory's certification status in Florida for particular methods and analytes.

EFFECTIVE JULY 1, 2004 THROUGH JUNE 30, 2005

Ming S. Chan, Ph.D.
Bureau Chief, Bureau of Laboratories
Florida Department of Health
DH Form 1697, 7/03
NON-TRANSFERABLE 05/20/2004-E84282

Laboratory Scope of Accreditation

THIS LISTING OF ACCREDITED ANALYTES SHOULD BE USED ONLY WHEN ASSOCIATED WITH A VALID CERTIFICATE

State Laboratory ID: E84282 **EPA Lab Code: FL00497** **(813) 885-7427**

E84282
STL Tampa
6712 Benjamin Road - Suite 100
Tampa, FL 33634

Matrix: Drinking Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,1,1,2-Tetrachloroethane	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/21/2001
1,1,1-Trichloroethane	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
1,1,2,2-Tetrachloroethane	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/21/2001
1,1,2-Trichloroethane	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
1,1-Dichloroethane	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/21/2001
1,1-Dichloroethylene	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
1,1-Dichloropropene	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/21/2001
1,2,3-Trichlorobenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	10/22/2003
1,2,3-Trichloropropane	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/21/2001
1,2,4-Trichlorobenzene	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
1,2,4-Trimethylbenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	10/22/2003
1,2-Dibromo-3-chloropropane (DBCP)	EPA 504.1	Synthetic Organic Contaminants	NELAP	8/21/2001
1,2-Dibromo-3-chloropropane (DBCP)	EPA 524.2	Group II Unregulated Contaminants	NELAP	10/22/2003
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 504.1	Synthetic Organic Contaminants	NELAP	8/21/2001
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 524.2	Group II Unregulated Contaminants	NELAP	10/22/2003
1,2-Dichlorobenzene	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
1,2-Dichloroethane	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
1,2-Dichloropropane	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
1,3,5-Trimethylbenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	10/22/2003
1,3-Dichlorobenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	2/4/2002
1,3-Dichloropropane	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/21/2001
1,4-Dichlorobenzene	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
2,2-Dichloropropane	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/21/2001
2-Chlorotoluene	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/21/2001
4-Chlorotoluene	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/21/2001
4-Isopropyltoluene	EPA 524.2	Group II Unregulated Contaminants	NELAP	10/22/2003
Alkalinity as CaCO3	SM 2320 B	Primary Inorganic Contaminants	NELAP	8/21/2001
Aluminum	EPA 200.7	Secondary Inorganic Contaminants	NELAP	2/4/2002
Antimony	SM 3113 B	Primary Inorganic Contaminants	NELAP	8/21/2001
Arsenic	EPA 200.7	Primary Inorganic Contaminants	NELAP	8/21/2001
Barium	EPA 200.7	Primary Inorganic Contaminants	NELAP	8/21/2001
Benzene	EPA 502.2	Other Regulated Contaminants	NELAP	8/21/2001
Benzene	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
Beryllium	EPA 200.7	Primary Inorganic Contaminants	NELAP	8/21/2001
Bromobenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/21/2001
Bromochloromethane	EPA 524.2	Group II Unregulated Contaminants	NELAP	10/22/2003

THIS LISTING OF ACCREDITED ANALYTES SHOULD BE USED ONLY WHEN ASSOCIATED WITH A VALID CERTIFICATE

State Laboratory ID: E84282 **EPA Lab Code: FL00497** **(813) 885-7427**

E84282
STL Tampa
6712 Benjamin Road - Suite 100
Tampa, FL 33634

Matrix: Drinking Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Bromodichloromethane	EPA 502.2	Group II Unregulated Contaminants,Other Regulated Contaminants	NELAP	8/21/2001
Bromodichloromethane	EPA 524.2	Group II Unregulated Contaminants,Other Regulated Contaminants	NELAP	8/21/2001
Bromoform	EPA 502.2	Group II Unregulated Contaminants,Other Regulated Contaminants	NELAP	8/21/2001
Bromoform	EPA 524.2	Group II Unregulated Contaminants,Other Regulated Contaminants	NELAP	8/21/2001
Cadmium	EPA 200.7	Primary Inorganic Contaminants	NELAP	8/21/2001
Calcium	EPA 200.7	Primary Inorganic Contaminants	NELAP	8/21/2001
Carbon tetrachloride	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
Chloride	EPA 325.3	Secondary Inorganic Contaminants	NELAP	8/21/2001
Chlorobenzene	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
Chloroethane	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/21/2001
Chloroform	EPA 502.2	Group II Unregulated Contaminants,Other Regulated Contaminants	NELAP	8/21/2001
Chloroform	EPA 524.2	Other Regulated Contaminants,Group II Unregulated Contaminants	NELAP	8/21/2001
Chromium	EPA 200.7	Primary Inorganic Contaminants	NELAP	8/21/2001
cis-1,2-Dichloroethylene	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
cis-1,3-Dichloropropene	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/21/2001
Color	EPA 110.2	Secondary Inorganic Contaminants	NELAP	8/21/2001
Conductivity	SM 2510 B	Primary Inorganic Contaminants	NELAP	8/21/2001
Copper	EPA 200.7	Secondary Inorganic Contaminants,Primary Inorganic Contaminants	NELAP	8/21/2001
Dibromochloromethane	EPA 502.2	Group II Unregulated Contaminants,Other Regulated Contaminants	NELAP	8/21/2001
Dibromochloromethane	EPA 524.2	Group II Unregulated Contaminants,Other Regulated Contaminants	NELAP	8/21/2001
Dibromomethane	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/21/2001
Dichlorodifluoromethane	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/21/2001
Dichloromethane (DCM, Methylene chloride)	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
Ethylbenzene	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
Fecal coliforms	SM 9221 E	Microbiology	NELAP	8/21/2001

THIS LISTING OF ACCREDITED ANALYTES SHOULD BE USED ONLY WHEN ASSOCIATED WITH A VALID CERTIFICATE

State Laboratory ID: E84282 **EPA Lab Code: FL00497** **(813) 885-7427**

E84282
STL Tampa
6712 Benjamin Road - Suite 100
Tampa, FL 33634

Matrix: Drinking Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Fluoride	SM 4500 F-C	Secondary Inorganic Contaminants,Primary Inorganic Contaminants	NELAP	8/21/2001
Hexachlorobutadiene	EPA 524.2	Group II Unregulated Contaminants	NELAP	10/22/2003
Iron	EPA 200.7	Secondary Inorganic Contaminants	NELAP	2/4/2002
Isopropylbenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	10/22/2003
Lead	SM 3113 B	Primary Inorganic Contaminants	NELAP	8/21/2001
Magnesium	EPA 200.7	Primary Inorganic Contaminants	NELAP	8/21/2001
Manganese	EPA 200.7	Secondary Inorganic Contaminants	NELAP	8/21/2001
Mercury	EPA 245.1	Primary Inorganic Contaminants	NELAP	8/21/2001
Methyl bromide (Bromomethane)	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/21/2001
Methyl chloride (Chloromethane)	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/21/2001
Methyl tert-butyl ether (MTBE)	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/21/2001
Naphthalene	EPA 524.2	Group II Unregulated Contaminants	NELAP	10/22/2003
n-Butylbenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	10/22/2003
Nickel	EPA 200.7	Primary Inorganic Contaminants	NELAP	8/21/2001
Nitrate	EPA 353.2	Primary Inorganic Contaminants	NELAP	2/4/2002
Nitrite	EPA 353.2	Primary Inorganic Contaminants	NELAP	8/21/2001
n-Propylbenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	10/22/2003
Odor	EPA 140.1	Secondary Inorganic Contaminants	NELAP	8/21/2001
Orthophosphate as P	SM 4500-P E	Primary Inorganic Contaminants	NELAP	8/21/2001
pH	EPA 150.1	Secondary Inorganic Contaminants,Primary Inorganic Contaminants	NELAP	8/21/2001
Potassium	EPA 200.7	Secondary Inorganic Contaminants	NELAP	10/22/2003
sec-Butylbenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	10/22/2003
Selenium	SM 3113 B	Primary Inorganic Contaminants	NELAP	8/21/2001
Silver	EPA 200.7	Secondary Inorganic Contaminants	NELAP	8/21/2001
Sodium	EPA 200.7	Primary Inorganic Contaminants	NELAP	8/21/2001
Styrene	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
Sulfate	EPA 375.4	Secondary Inorganic Contaminants	NELAP	8/21/2001
Surfactants - MBAS	EPA 425.1	Secondary Inorganic Contaminants	NELAP	8/21/2001
tert-Butylbenzene	EPA 524.2	Group II Unregulated Contaminants	NELAP	10/22/2003
Tetrachloroethylene (Perchloroethylene)	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
Thallium	EPA 200.9	Primary Inorganic Contaminants	NELAP	8/21/2001
Toluene	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
Total coliforms	SM 9221 B	Microbiology	NELAP	8/21/2001
Total coliforms	SM 9222 B	Microbiology	NELAP	8/21/2001

Laboratory Scope of Accreditation

THIS LISTING OF ACCREDITED ANALYTES SHOULD BE USED ONLY WHEN ASSOCIATED WITH A VALID CERTIFICATE

State Laboratory ID: E84282 **EPA Lab Code: FL00497** **(813) 885-7427**

E84282
STL Tampa
6712 Benjamin Road - Suite 100
Tampa, FL 33634

Matrix: Drinking Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Total coliforms & E. coli	SM 9223 B	Microbiology	NELAP	8/21/2001
Total dissolved solids	EPA 160.1	Secondary Inorganic Contaminants	NELAP	8/21/2001
Total nitrate-nitrite	EPA 353.2	Primary Inorganic Contaminants	NELAP	2/4/2002
Total trihalomethanes	EPA 502.2	Other Regulated Contaminants	NELAP	8/21/2001
Total trihalomethanes	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
trans-1,2-Dichloroethylene	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
trans-1,3-Dichloropropylene	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/21/2001
Trichloroethene (Trichloroethylene)	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
Trichlorofluoromethane	EPA 524.2	Group II Unregulated Contaminants	NELAP	8/21/2001
Turbidity	EPA 180.1	Secondary Inorganic Contaminants	NELAP	8/21/2001
Vinyl chloride	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
Xylene (total)	EPA 524.2	Other Regulated Contaminants	NELAP	8/21/2001
Zinc	EPA 200.7	Secondary Inorganic Contaminants	NELAP	8/21/2001

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State Laboratory ID: E84282 EPA Lab Code: FL00497 (813) 885-7427

E84282
STL Tampa
6712 Benjamin Road - Suite 100
Tampa, FL 33634

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,1,1,2-Tetrachloroethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,1,1,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1,1-Trichloroethane	EPA 601	Volatile Organics	NELAP	8/21/2001
1,1,1-Trichloroethane	EPA 624	Volatile Organics	NELAP	8/21/2001
1,1,1-Trichloroethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,1,1-Trichloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1,2,2-Tetrachloroethane	EPA 601	Volatile Organics	NELAP	8/21/2001
1,1,2,2-Tetrachloroethane	EPA 624	Volatile Organics	NELAP	8/21/2001
1,1,2,2-Tetrachloroethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,1,2,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1,2-Trichloroethane	EPA 601	Volatile Organics	NELAP	8/21/2001
1,1,2-Trichloroethane	EPA 624	Volatile Organics	NELAP	8/21/2001
1,1,2-Trichloroethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,1,2-Trichloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1-Dichloroethane	EPA 601	Volatile Organics	NELAP	8/21/2001
1,1-Dichloroethane	EPA 624	Volatile Organics	NELAP	8/21/2001
1,1-Dichloroethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,1-Dichloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1-Dichloroethylene	EPA 601	Volatile Organics	NELAP	8/21/2001
1,1-Dichloroethylene	EPA 624	Volatile Organics	NELAP	8/21/2001
1,1-Dichloroethylene	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,1-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1-Dichloropropene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2,3-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2,3-Trichloropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2,4,5-Tetrachlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,2,4-Trichlorobenzene	EPA 625	Extractable Organics	NELAP	8/21/2001
1,2,4-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2,4-Trichlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,2,4-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dibromo-3-chloropropane (DBCP)	EPA 504	Volatile Organics	NELAP	8/21/2001
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8011	Volatile Organics	NELAP	7/1/2003
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 504	Volatile Organics	NELAP	8/21/2001
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8011	Volatile Organics	NELAP	7/1/2003
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260	Volatile Organics	NELAP	7/1/2003

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E84282
STL Tampa
6712 Benjamin Road - Suite 100
Tampa, FL 33634

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,2-Dichlorobenzene	EPA 601	Volatile Organics	NELAP	8/21/2001
1,2-Dichlorobenzene	EPA 602	Volatile Organics	NELAP	8/21/2001
1,2-Dichlorobenzene	EPA 624	Volatile Organics	NELAP	8/21/2001
1,2-Dichlorobenzene	EPA 625	Extractable Organics	NELAP	8/21/2001
1,2-Dichlorobenzene	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,2-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,2-Dichloroethane	EPA 601	Volatile Organics	NELAP	8/21/2001
1,2-Dichloroethane	EPA 624	Volatile Organics	NELAP	8/21/2001
1,2-Dichloroethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,2-Dichloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dichloropropane	EPA 601	Volatile Organics	NELAP	8/21/2001
1,2-Dichloropropane	EPA 624	Volatile Organics	NELAP	8/21/2001
1,2-Dichloropropane	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Diphenylhydrazine	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,3,5-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,3-Dichlorobenzene	EPA 601	Volatile Organics	NELAP	8/21/2001
1,3-Dichlorobenzene	EPA 602	Volatile Organics	NELAP	8/21/2001
1,3-Dichlorobenzene	EPA 624	Volatile Organics	NELAP	8/21/2001
1,3-Dichlorobenzene	EPA 625	Extractable Organics	NELAP	8/21/2001
1,3-Dichlorobenzene	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,3-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,3-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,3-Dichloropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,3-Dinitrobenzene (1,3-DNB)	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,4-Dichlorobenzene	EPA 601	Volatile Organics	NELAP	8/21/2001
1,4-Dichlorobenzene	EPA 602	Volatile Organics	NELAP	8/21/2001
1,4-Dichlorobenzene	EPA 624	Volatile Organics	NELAP	8/21/2001
1,4-Dichlorobenzene	EPA 625	Extractable Organics	NELAP	8/21/2001
1,4-Dichlorobenzene	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,4-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,4-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,4-Naphthoquinone	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,4-Phenylenediamine	EPA 8270	Extractable Organics	NELAP	7/1/2003

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Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
1-Methylnaphthalene	TPA LC30:02.14.00:2	Extractable Organics	NELAP	11/7/2003
1-Naphthylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
2,3,4,6-Tetrachlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4,5-T	EPA 615	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
2,4,5-T	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
2,4,5-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4,6-Trichlorophenol	EPA 625	Extractable Organics	NELAP	8/21/2001
2,4,6-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4-D	EPA 615	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
2,4-D	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
2,4-DB	EPA 615	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
2,4-DB	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
2,4-Dichlorophenol	EPA 625	Extractable Organics	NELAP	8/21/2001
2,4-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4-Dimethylphenol	EPA 625	Extractable Organics	NELAP	8/21/2001
2,4-Dimethylphenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4-Dinitrophenol	EPA 625	Extractable Organics	NELAP	8/21/2001
2,4-Dinitrophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4-Dinitrotoluene (2,4-DNT)	EPA 625	Extractable Organics	NELAP	8/21/2001
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,6-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,6-Dinitrotoluene (2,6-DNT)	EPA 625	Extractable Organics	NELAP	8/21/2001
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Acetylaminofluorene	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Chloroethyl vinyl ether	EPA 601	Volatile Organics	NELAP	8/21/2001
2-Chloroethyl vinyl ether	EPA 624	Volatile Organics	NELAP	8/21/2001
2-Chloroethyl vinyl ether	EPA 8021	Volatile Organics	NELAP	7/1/2003
2-Chloroethyl vinyl ether	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Chloronaphthalene	EPA 625	Extractable Organics	NELAP	8/21/2001
2-Chloronaphthalene	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Chlorophenol	EPA 625	Extractable Organics	NELAP	8/21/2001
2-Chlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Hexanone	EPA 8260	Volatile Organics	NELAP	7/1/2003

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Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
2-Methyl-4,6-dinitrophenol	EPA 625	Extractable Organics	NELAP	8/21/2001
2-Methyl-4,6-dinitrophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Methylnaphthalene	EPA 610	Extractable Organics	NELAP	10/4/2002
2-Methylnaphthalene	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Methylnaphthalene	TPA LC30:02.14.00:2	Extractable Organics	NELAP	11/7/2003
2-Methylphenol (o-Cresol)	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Nitroaniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Nitrophenol	EPA 625	Extractable Organics	NELAP	8/21/2001
2-Nitrophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Picoline (2-Methylpyridine)	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Sec-butyl-4,6-dinitrophenol (DNBP, Dinoseb)	EPA 8270	Extractable Organics	NELAP	7/1/2003
3,3'-Dichlorobenzidine	EPA 625	Extractable Organics	NELAP	8/21/2001
3,3'-Dichlorobenzidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
3,3'-Dimethylbenzidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
3-Methylcholanthrene	EPA 8270	Extractable Organics	NELAP	7/1/2003
3-Methylphenol (m-Cresol)	EPA 8270	Extractable Organics	NELAP	7/1/2003
3-Nitroaniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
4,4'-DDD	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
4,4'-DDD	EPA 625	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
4,4'-DDD	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
4,4'-DDD	EPA 8270	Extractable Organics	NELAP	7/1/2003
4,4'-DDE	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
4,4'-DDE	EPA 625	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
4,4'-DDE	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
4,4'-DDE	EPA 8270	Extractable Organics	NELAP	7/1/2003
4,4'-DDT	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
4,4'-DDT	EPA 625	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
4,4'-DDT	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
4,4'-DDT	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Aminobiphenyl	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Bromophenyl phenyl ether	EPA 625	Extractable Organics	NELAP	8/21/2001
4-Bromophenyl phenyl ether	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Chloro-3-methylphenol	EPA 625	Extractable Organics	NELAP	8/21/2001
4-Chloro-3-methylphenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Chloroaniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Chlorophenyl phenylether	EPA 625	Extractable Organics	NELAP	8/21/2001

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Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
4-Chlorophenyl phenylether	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	7/1/2003
4-Dimethyl aminoazobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Methyl-2-pentanone (MIBK)	EPA 8260	Volatile Organics	NELAP	7/1/2003
4-Methylphenol (p-Cresol)	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Nitroaniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Nitrophenol	EPA 625	Extractable Organics	NELAP	8/21/2001
4-Nitrophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
5-Nitro-o-toluidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
7,12-Dimethylbenz(a) anthracene	EPA 8270	Extractable Organics	NELAP	7/1/2003
a-a-Dimethylphenethylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
Acenaphthene	EPA 610	Extractable Organics	NELAP	8/21/2001
Acenaphthene	EPA 625	Extractable Organics	NELAP	8/21/2001
Acenaphthene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Acenaphthene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Acenaphthene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Acenaphthylene	EPA 610	Extractable Organics	NELAP	8/21/2001
Acenaphthylene	EPA 625	Extractable Organics	NELAP	8/21/2001
Acenaphthylene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Acenaphthylene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Acenaphthylene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Acetone	EPA 8260	Volatile Organics	NELAP	7/1/2003
Acetonitrile	EPA 8260	Volatile Organics	NELAP	7/1/2003
Acetophenone	EPA 8270	Extractable Organics	NELAP	7/1/2003
Acidity, as CaCO3	EPA 305.1	General Chemistry	NELAP	8/21/2001
Acrolein (Propenal)	EPA 624	Volatile Organics	NELAP	8/21/2001
Acrolein (Propenal)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Acrylonitrile	EPA 624	Volatile Organics	NELAP	8/21/2001
Acrylonitrile	EPA 8260	Volatile Organics	NELAP	7/1/2003
Aldrin	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Aldrin	EPA 625	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Aldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aldrin	EPA 8270	Extractable Organics	NELAP	7/1/2003
Alkalinity as CaCO3	EPA 310.1	General Chemistry	NELAP	8/21/2001
Alkalinity as CaCO3	SM 2320 B	General Chemistry	NELAP	8/21/2001
Allyl chloride (3-Chloropropene)	EPA 8260	Volatile Organics	NELAP	7/1/2003

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Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 625	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8270	Extractable Organics	NELAP	7/1/2003
alpha-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aluminum	EPA 200.7	Metals	NELAP	8/21/2001
Aluminum	EPA 6010	Metals	NELAP	7/1/2003
Ammonia as N	EPA 350.3	General Chemistry	NELAP	8/21/2001
Aniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
Anthracene	EPA 610	Extractable Organics	NELAP	8/21/2001
Anthracene	EPA 625	Extractable Organics	NELAP	8/21/2001
Anthracene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Anthracene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Anthracene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Antimony	EPA 200.7	Metals	NELAP	8/21/2001
Antimony	EPA 6010	Metals	NELAP	7/1/2003
Antimony	EPA 7041	Metals	NELAP	7/1/2003
Aramite	EPA 8270	Extractable Organics	NELAP	7/1/2003
Aroclor-1016 (PCB-1016)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Aroclor-1016 (PCB-1016)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1221 (PCB-1221)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Aroclor-1221 (PCB-1221)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1232 (PCB-1232)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Aroclor-1232 (PCB-1232)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1242 (PCB-1242)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Aroclor-1242 (PCB-1242)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1248 (PCB-1248)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Aroclor-1248 (PCB-1248)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1254 (PCB-1254)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Aroclor-1254 (PCB-1254)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1260 (PCB-1260)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Aroclor-1260 (PCB-1260)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Arsenic	EPA 200.7	Metals	NELAP	8/21/2001
Arsenic	EPA 6010	Metals	NELAP	8/21/2001
Arsenic	EPA 7060	Metals	NELAP	7/1/2003
Atrazine	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003

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E84282
STL Tampa
6712 Benjamin Road - Suite 100
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Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Azinphos-methyl (Guthion)	EPA 614	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Azinphos-methyl (Guthion)	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Azinphos-methyl (Guthion)	EPA 8270	Extractable Organics	NELAP	7/1/2003
Barium	EPA 200.7	Metals	NELAP	8/21/2001
Barium	EPA 6010	Metals	NELAP	7/1/2003
Benzene	EPA 602	Volatile Organics	NELAP	8/21/2001
Benzene	EPA 624	Volatile Organics	NELAP	8/21/2001
Benzene	EPA 8021	Volatile Organics	NELAP	7/1/2003
Benzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Benzidine	EPA 625	Extractable Organics	NELAP	8/21/2001
Benzo(a)anthracene	EPA 610	Extractable Organics	NELAP	8/21/2001
Benzo(a)anthracene	EPA 625	Extractable Organics	NELAP	8/21/2001
Benzo(a)anthracene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Benzo(a)anthracene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(a)anthracene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Benzo(a)pyrene	EPA 610	Extractable Organics	NELAP	8/21/2001
Benzo(a)pyrene	EPA 625	Extractable Organics	NELAP	8/21/2001
Benzo(a)pyrene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Benzo(a)pyrene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(a)pyrene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Benzo(b)fluoranthene	EPA 610	Extractable Organics	NELAP	8/21/2001
Benzo(b)fluoranthene	EPA 625	Extractable Organics	NELAP	8/21/2001
Benzo(b)fluoranthene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Benzo(b)fluoranthene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(b)fluoranthene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Benzo(g,h,i)perylene	EPA 610	Extractable Organics	NELAP	8/21/2001
Benzo(g,h,i)perylene	EPA 625	Extractable Organics	NELAP	8/21/2001
Benzo(g,h,i)perylene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Benzo(g,h,i)perylene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(g,h,i)perylene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Benzo(k)fluoranthene	EPA 610	Extractable Organics	NELAP	8/21/2001
Benzo(k)fluoranthene	EPA 625	Extractable Organics	NELAP	8/21/2001
Benzo(k)fluoranthene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Benzo(k)fluoranthene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(k)fluoranthene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Benzoic acid	EPA 8270	Extractable Organics	NELAP	7/1/2003

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State Laboratory ID: E84282 **EPA Lab Code: FL00497** **(813) 885-7427**

E84282
STL Tampa
6712 Benjamin Road - Suite 100
Tampa, FL 33634

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Benzyl alcohol	EPA 8270	Extractable Organics	NELAP	7/1/2003
Beryllium	EPA 200.7	Metals	NELAP	8/21/2001
Beryllium	EPA 6010	Metals	NELAP	7/1/2003
beta-BHC (beta-Hexachlorocyclohexane)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
beta-BHC (beta-Hexachlorocyclohexane)	EPA 625	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
beta-BHC (beta-Hexachlorocyclohexane)	EPA 8270	Extractable Organics	NELAP	7/1/2003
beta-Naphthylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
Biochemical oxygen demand	EPA 405.1	General Chemistry	NELAP	8/21/2001
Biochemical oxygen demand	SM 5210 B	General Chemistry	NELAP	8/21/2001
bis(2-Chloroethoxy)methane	EPA 625	Extractable Organics	NELAP	8/21/2001
bis(2-Chloroethoxy)methane	EPA 8270	Extractable Organics	NELAP	7/1/2003
bis(2-Chloroethyl) ether	EPA 625	Extractable Organics	NELAP	8/21/2001
bis(2-Chloroethyl) ether	EPA 8270	Extractable Organics	NELAP	7/1/2003
bis(2-Chloroisopropyl) ether	EPA 625	Extractable Organics	NELAP	8/21/2001
bis(2-Chloroisopropyl) ether	EPA 8270	Extractable Organics	NELAP	7/1/2003
bis(2-Ethylhexyl) phthalate (DEHP)	EPA 625	Extractable Organics	NELAP	8/21/2001
bis(2-Ethylhexyl) phthalate (DEHP)	EPA 8270	Extractable Organics	NELAP	7/1/2003
Bolstar (Sulprofos)	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Boron	EPA 200.7	Metals	NELAP	10/4/2002
Boron	EPA 6010	Metals	NELAP	7/1/2003
Bromide	EPA 300.0	General Chemistry	NELAP	10/4/2002
Bromide	EPA 9056	Metals	NELAP	7/1/2003
Bromobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Bromochloromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Bromodichloromethane	EPA 601	Volatile Organics	NELAP	8/21/2001
Bromodichloromethane	EPA 624	Volatile Organics	NELAP	8/21/2001
Bromodichloromethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
Bromodichloromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Bromoform	EPA 601	Volatile Organics	NELAP	8/21/2001
Bromoform	EPA 624	Volatile Organics	NELAP	8/21/2001
Bromoform	EPA 8021	Volatile Organics	NELAP	7/1/2003
Bromoform	EPA 8260	Volatile Organics	NELAP	7/1/2003
Butyl benzyl phthalate	EPA 625	Extractable Organics	NELAP	8/21/2001
Butyl benzyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Cadmium	EPA 200.7	Metals	NELAP	8/21/2001

Laboratory Scope of Accreditation

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Cadmium	EPA 6010	Metals	NELAP	8/21/2001
Calcium	EPA 200.7	Metals	NELAP	8/21/2001
Calcium	EPA 6010	Metals	NELAP	7/1/2003
Carbaryl (Sevin)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Carbazole	EPA 8270	Extractable Organics	NELAP	7/1/2003
Carbon disulfide	EPA 8260	Volatile Organics	NELAP	7/1/2003
Carbon tetrachloride	EPA 601	Volatile Organics	NELAP	8/21/2001
Carbon tetrachloride	EPA 624	Volatile Organics	NELAP	8/21/2001
Carbon tetrachloride	EPA 8021	Volatile Organics	NELAP	7/1/2003
Carbon tetrachloride	EPA 8260	Volatile Organics	NELAP	7/1/2003
Carbonaceous BOD (CBOD)	SM 5210 B	General Chemistry	NELAP	8/21/2001
Chemical oxygen demand	SM 5220 C	General Chemistry	NELAP	8/21/2001
Chlordane (tech.)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Chlordane (tech.)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Chloride	EPA 300.0	General Chemistry	NELAP	10/4/2002
Chloride	EPA 325.2	General Chemistry	NELAP	8/21/2001
Chloride	EPA 325.3	General Chemistry	NELAP	8/21/2001
Chloride	EPA 9056	Metals	NELAP	7/1/2003
Chlorobenzene	EPA 601	Volatile Organics	NELAP	8/21/2001
Chlorobenzene	EPA 602	Volatile Organics	NELAP	8/21/2001
Chlorobenzene	EPA 624	Volatile Organics	NELAP	8/21/2001
Chlorobenzene	EPA 8021	Volatile Organics	NELAP	7/1/2003
Chlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Chloroethane	EPA 601	Volatile Organics	NELAP	8/21/2001
Chloroethane	EPA 624	Volatile Organics	NELAP	8/21/2001
Chloroethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
Chloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Chloroform	EPA 601	Volatile Organics	NELAP	8/21/2001
Chloroform	EPA 624	Volatile Organics	NELAP	8/21/2001
Chloroform	EPA 8021	Volatile Organics	NELAP	7/1/2003
Chloroform	EPA 8260	Volatile Organics	NELAP	7/1/2003
Chloroprene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Chlorpyrifos	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Chlorpyrifos methyl	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Chromium	EPA 200.7	Metals	NELAP	8/21/2001
Chromium	EPA 6010	Metals	NELAP	7/1/2003

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Chromium VI	EPA 7196	General Chemistry	NELAP	7/1/2003
Chrysene,	EPA 610	Extractable Organics	NELAP	8/21/2001
Chrysene	EPA 625	Extractable Organics	NELAP	8/21/2001
Chrysene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Chrysene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Chrysene	EPA 8310	Extractable Organics	NELAP	7/1/2003
cis-1,2-Dichloroethylene	EPA 8021	Volatile Organics	NELAP	7/1/2003
cis-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	7/1/2003
cis-1,3-Dichloropropene	EPA 601	Volatile Organics	NELAP	8/21/2001
cis-1,3-Dichloropropene	EPA 624	Volatile Organics	NELAP	8/21/2001
cis-1,3-Dichloropropene	EPA 8021	Volatile Organics	NELAP	7/1/2003
cis-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Cobalt	EPA 200.7	Metals	NELAP	8/21/2001
Cobalt	EPA 6010	Metals	NELAP	7/1/2003
Color	EPA 110.2	General Chemistry	NELAP	8/21/2001
Conductivity	EPA 120.1	General Chemistry	NELAP	8/21/2001
Conductivity	EPA 9050	General Chemistry	NELAP	7/1/2003
Copper	EPA 200.7	Metals	NELAP	8/21/2001
Copper	EPA 6010	Metals	NELAP	8/21/2001
Corrosivity (langlier index)	SM 2330 B	General Chemistry	NELAP	8/21/2001
Corrosivity (pH)	EPA 9040	General Chemistry	NELAP	7/1/2003
Coumaphos	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Dalapon	EPA 615	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Dalapon	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
delta-BHC	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
delta-BHC	EPA 625	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
delta-BHC	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
delta-BHC	EPA 8270	Extractable Organics	NELAP	7/1/2003
Demeton-o	EPA 614	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Demeton-o	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Demeton-s	EPA 614	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Demeton-s	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Diallate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Diazinon	EPA 614	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Diazinon	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Dibenz(a,h) anthracene	EPA 610	Extractable Organics	NELAP	8/21/2001

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Dibenz(a,h) anthracene	EPA 625	Extractable Organics	NELAP	8/21/2001
Dibenz(a,h) anthracene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Dibenz(a,h) anthracene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Dibenz(a,h) anthracene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Dibenzofuran	EPA 8270	Extractable Organics	NELAP	7/1/2003
Dibromochloromethane	EPA 601	Volatile Organics	NELAP	8/21/2001
Dibromochloromethane	EPA 624	Volatile Organics	NELAP	8/21/2001
Dibromochloromethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
Dibromochloromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Dibromomethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
Dibromomethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Dicamba	EPA 615	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Dicamba	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Dichlorodifluoromethane	EPA 601	Volatile Organics	NELAP	8/21/2001
Dichlorodifluoromethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
Dichlorodifluoromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Dichloroprop (Dichlorprop)	EPA 615	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Dichloroprop (Dichlorprop)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Dichlorovos (DDVP, Dichlorvos)	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Dieldrin	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Dieldrin	EPA 625	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Dieldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Dieldrin	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Diesel range organics (DRO)	EPA 8015	Extractable Organics	NELAP	7/1/2003
Diethyl phthalate	EPA 625	Extractable Organics	NELAP	8/21/2001
Diethyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Dimethoate	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Dimethyl phthalate	EPA 625	Extractable Organics	NELAP	8/21/2001
Dimethyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Di-n-butyl phthalate	EPA 625	Extractable Organics	NELAP	8/21/2001
Di-n-butyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Di-n-octyl phthalate	EPA 625	Extractable Organics	NELAP	8/21/2001
Di-n-octyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 615	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8270	Extractable Organics	NELAP	7/1/2003

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Diphenylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
Disulfoton	EPA 614	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Disulfoton	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Disulfoton	EPA 8270	Extractable Organics	NELAP	7/1/2003
Endosulfan I	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endosulfan I	EPA 625	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endosulfan I	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endosulfan I	EPA 8270	Extractable Organics	NELAP	7/1/2003
Endosulfan II	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endosulfan II	EPA 625	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endosulfan II	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endosulfan II	EPA 8270	Extractable Organics	NELAP	7/1/2003
Endosulfan sulfate	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endosulfan sulfate	EPA 625	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endosulfan sulfate	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endosulfan sulfate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Endrin	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endrin	EPA 625	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endrin	EPA 8270	Extractable Organics	NELAP	7/1/2003
Endrin aldehyde	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endrin aldehyde	EPA 625	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endrin aldehyde	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endrin aldehyde	EPA 8270	Extractable Organics	NELAP	7/1/2003
Endrin ketone	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endrin ketone	EPA 8270	Extractable Organics	NELAP	7/1/2003
EPN	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Ethion	EPA 614	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Ethion	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Ethoprop	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Ethyl methacrylate	EPA 8260	Volatile Organics	NELAP	7/1/2003
Ethyl methanesulfonate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Ethylbenzene	EPA 602	Volatile Organics	NELAP	8/21/2001
Ethylbenzene	EPA 624	Volatile Organics	NELAP	8/21/2001
Ethylbenzene	EPA 8021	Volatile Organics	NELAP	7/1/2003
Ethylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Famphur	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/22/2003
Fecal coliforms	SM 9221 B	Microbiology	NELAP	8/21/2001
Fecal coliforms	SM 9222 D	Microbiology	NELAP	8/21/2001
Fensulfothion	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Fensulfothion	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Fenthion	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Fluoranthene	EPA 610	Extractable Organics	NELAP	8/21/2001
Fluoranthene	EPA 625	Extractable Organics	NELAP	8/21/2001
Fluoranthene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Fluoranthene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Fluoranthene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Fluorene	EPA 610	Extractable Organics	NELAP	8/21/2001
Fluorene	EPA 625	Extractable Organics	NELAP	8/21/2001
Fluorene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Fluorene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Fluorene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Fluoride	EPA 300.0	General Chemistry	NELAP	10/4/2002
Fluoride	EPA 9056	Metals	NELAP	7/1/2003
Fluoride	SM 4500 F-C	General Chemistry	NELAP	8/21/2001
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 625	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
gamma-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Gasoline range organics (GRO)	EPA 8015	Volatile Organics	NELAP	7/1/2003
Hardness	SM 2340 B	General Chemistry	NELAP	10/7/2002
Hardness (calc.)	EPA 200.7	Metals	NELAP	10/4/2002
Heptachlor	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Heptachlor	EPA 625	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Heptachlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Heptachlor	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Heptachlor epoxide	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Heptachlor epoxide	EPA 625	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Heptachlor epoxide	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Heptachlor epoxide	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003

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Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Hexachlorobenzene	EPA 625	Extractable Organics	NELAP	8/21/2001
Hexachlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Hexachlorobutadiene	EPA 625	Extractable Organics	NELAP	8/21/2001
Hexachlorobutadiene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Hexachlorobutadiene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Hexachlorocyclopentadiene	EPA 625	Extractable Organics	NELAP	8/21/2001
Hexachlorocyclopentadiene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Hexachloroethane	EPA 625	Extractable Organics	NELAP	8/21/2001
Hexachloroethane	EPA 8270	Extractable Organics	NELAP	7/1/2003
Hexachlorophene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Hexachloropropene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Indeno(1,2,3-cd)pyrene	EPA 610	Extractable Organics	NELAP	8/21/2001
Indeno(1,2,3-cd)pyrene	EPA 625	Extractable Organics	NELAP	8/21/2001
Indeno(1,2,3-cd)pyrene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Indeno(1,2,3-cd)pyrene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Indeno(1,2,3-cd)pyrene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Iodomethane (Methyl iodide)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Iron	EPA 200.7	Metals	NELAP	8/21/2001
Iron	EPA 6010	Metals	NELAP	7/1/2003
Iron	SM 3500-Fe D	General Chemistry	NELAP	8/21/2001
Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Isophorone	EPA 625	Extractable Organics	NELAP	8/21/2001
Isophorone	EPA 8270	Extractable Organics	NELAP	7/1/2003
Isopropylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Isosafrole	EPA 8270	Extractable Organics	NELAP	7/1/2003
Kjeldahl nitrogen - total	EPA 351.3	General Chemistry	NELAP	10/4/2002
Lead	EPA 200.7	Metals	NELAP	8/21/2001
Lead	EPA 239.2	Metals	NELAP	8/21/2001
Lead	EPA 6010	Metals	NELAP	8/21/2001
Lead	EPA 7421	Metals	NELAP	7/1/2003
Lithium	EPA 6010	Metals	NELAP	7/1/2003
Magnesium	EPA 200.7	Metals	NELAP	8/21/2001
Magnesium	EPA 6010	Metals	NELAP	7/1/2003
Malathion	EPA 614	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Malathion	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Malathion	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003

THIS LISTING OF ACCREDITED ANALYTES SHOULD BE USED ONLY WHEN ASSOCIATED WITH A VALID CERTIFICATE

State Laboratory ID: E84282 **EPA Lab Code: FL00497** **(813) 885-7427**

E84282
STL Tampa
6712 Benjamin Road - Suite 100
Tampa, FL 33634

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Manganese	EPA 200.7	Metals	NELAP	8/21/2001
Manganese	EPA 6010	Metals	NELAP	7/1/2003
MCPA	EPA 615	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
MCPA	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
MCPP	EPA 615	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
MCPP	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Mercury	EPA 245.1	Metals	NELAP	8/21/2001
Mercury	EPA 7470	Metals	NELAP	8/21/2001
Merphos	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Methacrylonitrile	EPA 8260	Volatile Organics	NELAP	7/1/2003
Methapyrilene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Methoxychlor	EPA 608.2	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Methoxychlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Methyl bromide (Bromomethane)	EPA 601	Volatile Organics	NELAP	8/21/2001
Methyl bromide (Bromomethane)	EPA 624	Volatile Organics	NELAP	8/21/2001
Methyl bromide (Bromomethane)	EPA 8021	Volatile Organics	NELAP	7/1/2003
Methyl bromide (Bromomethane)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Methyl chloride (Chloromethane)	EPA 601	Volatile Organics	NELAP	8/21/2001
Methyl chloride (Chloromethane)	EPA 624	Volatile Organics	NELAP	8/21/2001
Methyl chloride (Chloromethane)	EPA 8021	Volatile Organics	NELAP	7/1/2003
Methyl chloride (Chloromethane)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Methyl methacrylate	EPA 8260	Volatile Organics	NELAP	7/1/2003
Methyl methanesulfonate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Methyl parathion (Parathion, methyl)	EPA 614	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Methyl parathion (Parathion, methyl)	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Methyl parathion (Parathion, methyl)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Methyl tert-butyl ether (MTBE)	EPA 8021	Volatile Organics	NELAP	7/1/2003
Methyl tert-butyl ether (MTBE)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Methylene chloride	EPA 601	Volatile Organics	NELAP	8/21/2001
Methylene chloride	EPA 624	Volatile Organics	NELAP	8/21/2001
Methylene chloride	EPA 8021	Volatile Organics	NELAP	7/1/2003
Methylene chloride	EPA 8260	Volatile Organics	NELAP	7/1/2003
Mevinphos	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Mirex	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	10/22/2003
Molybdenum	EPA 200.7	Metals	NELAP	8/21/2001
Molybdenum	EPA 6010	Metals	NELAP	7/1/2003

Laboratory Scope of Accreditation

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STL Tampa
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Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Monocrotophos	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Naled	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Naphthalene	EPA 610	Extractable Organics	NELAP	8/21/2001
Naphthalene	EPA 625	Extractable Organics	NELAP	8/21/2001
Naphthalene	EPA 8021	Volatile Organics	NELAP	7/1/2003
Naphthalene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Naphthalene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Naphthalene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Naphthalene	EPA 8310	Extractable Organics	NELAP	7/1/2003
n-Butylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Nickel	EPA 200.7	Metals	NELAP	8/21/2001
Nickel	EPA 6010	Metals	NELAP	7/1/2003
Nitrate	EPA 9056	Metals	NELAP	7/1/2003
Nitrate as N	EPA 300.0	General Chemistry	NELAP	10/4/2002
Nitrate as N	EPA 353.2	General Chemistry	NELAP	8/21/2001
Nitrate-nitrite	EPA 353.2	General Chemistry	NELAP	8/21/2001
Nitrate-nitrite	SM 4500-NO3 F	General Chemistry	NELAP	8/21/2001
Nitrite	EPA 9056	Metals	NELAP	7/1/2003
Nitrite as N	EPA 300.0	General Chemistry	NELAP	10/4/2002
Nitrite as N	EPA 353.2	General Chemistry	NELAP	8/21/2001
Nitrobenzene	EPA 625	Extractable Organics	NELAP	8/21/2001
Nitrobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Nitroquinoline-1-oxide	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosodiethylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosodimethylamine	EPA 625	Extractable Organics	NELAP	8/21/2001
n-Nitrosodimethylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitroso-di-n-butylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosodi-n-propylamine	EPA 625	Extractable Organics	NELAP	8/21/2001
n-Nitrosodi-n-propylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosodiphenylamine	EPA 625	Extractable Organics	NELAP	8/21/2001
n-Nitrosodiphenylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosomethylethylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosomorpholine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosopiperidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosopyrrolidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Propylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003

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E84282
STL Tampa
6712 Benjamin Road - Suite 100
Tampa, FL 33634

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
o,o,o-Triethyl phosphorothioate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Oil & Grease	EPA 1664	General Chemistry	NELAP	8/21/2001
Organic nitrogen	TKN minus AMMONIA	General Chemistry	NELAP	10/4/2002
Orthophosphate as P	EPA 300.0	General Chemistry	NELAP	10/4/2002
Orthophosphate as P	EPA 365.2	General Chemistry	NELAP	8/21/2001
Orthophosphate as P	EPA 9056	Metals	NELAP	7/1/2003
o-Toluidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
Oxygen, dissolved	SM 4500-O C	General Chemistry	NELAP	8/21/2001
Parathion, ethyl	EPA 614	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Parathion, ethyl	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Parathion, ethyl	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Pentachlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Pentachloronitrobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Pentachlorophenol	EPA 625	Extractable Organics	NELAP	8/21/2001
Pentachlorophenol	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Pentachlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
pH	EPA 150.1	General Chemistry	NELAP	8/21/2001
pH	EPA 9040	General Chemistry	NELAP	7/1/2003
Phenacetin	EPA 8270	Extractable Organics	NELAP	7/1/2003
Phenanthrene	EPA 610	Extractable Organics	NELAP	8/21/2001
Phenanthrene	EPA 625	Extractable Organics	NELAP	8/21/2001
Phenanthrene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Phenanthrene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Phenanthrene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Phenol	EPA 625	Extractable Organics	NELAP	8/21/2001
Phenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
Phorate	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Phosmet (Imidan)	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Phosphorus, total	EPA 365.2	General Chemistry	NELAP	8/21/2001
Picloram	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
p-Isopropyltoluene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Potassium	EPA 200.7	Metals	NELAP	8/21/2001
Potassium	EPA 6010	Metals	NELAP	10/7/2002
Pronamide (Kerb)	EPA 8270	Extractable Organics	NELAP	7/1/2003
Pyrene	EPA 610	Extractable Organics	NELAP	8/21/2001
Pyrene	EPA 625	Extractable Organics	NELAP	8/21/2001

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E84282
STL Tampa
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Tampa, FL 33634

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Pyrene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Pyrene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Pyrene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Pyridine	EPA 8270	Extractable Organics	NELAP	7/1/2003
Residue-filterable (TDS)	EPA 160.1	General Chemistry	NELAP	8/21/2001
Residue-nonfilterable (TSS)	EPA 160.2	General Chemistry	NELAP	8/21/2001
Residue-total	EPA 160.3	General Chemistry	NELAP	8/21/2001
Residue-volatile	EPA 160.4	General Chemistry	NELAP	8/21/2001
Ronnel	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Safrole	EPA 8270	Extractable Organics	NELAP	7/1/2003
Salinity	SM 2520 B	General Chemistry	NELAP	8/21/2001
sec-Butylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Selenium	EPA 200.7	Metals	NELAP	8/21/2001
Selenium	EPA 6010	Metals	NELAP	8/21/2001
Selenium	EPA 7740	Metals	NELAP	7/1/2003
Silver	EPA 200.7	Metals	NELAP	8/21/2001
Silver	EPA 6010	Metals	NELAP	7/1/2003
Silvex (2,4,5-TP)	EPA 615	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Silvex (2,4,5-TP)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Simazine	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/22/2003
Sodium	EPA 200.7	Metals	NELAP	8/21/2001
Sodium	EPA 6010	Metals	NELAP	7/1/2003
Stirofos	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Strontium	EPA 200.7	Metals	NELAP	10/4/2002
Strontium	EPA 6010	Metals	NELAP	7/1/2003
Styrene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Sulfate	EPA 300.0	General Chemistry	NELAP	10/4/2002
Sulfate	EPA 375.4	General Chemistry	NELAP	8/21/2001
Sulfate	EPA 9038	Metals	NELAP	7/1/2003
Sulfate	EPA 9056	Metals	NELAP	7/1/2003
Sulfide	EPA 376.1	General Chemistry	NELAP	10/4/2002
Sulfotepp	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Surfactants - MBAS	EPA 425.1	General Chemistry	NELAP	8/21/2001
tert-Butylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Tetrachloroethylene (Perchloroethylene)	EPA 601	Volatile Organics	NELAP	8/21/2001
Tetrachloroethylene (Perchloroethylene)	EPA 624	Volatile Organics	NELAP	8/21/2001

Laboratory Scope of Accreditation

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State Laboratory ID: E84282 **EPA Lab Code: FL00497** **(813) 885-7427**

E84282
STL Tampa
6712 Benjamin Road - Suite 100
Tampa, FL 33634

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Tetrachloroethylene (Perchloroethylene)	EPA 8021	Volatile Organics	NELAP	7/1/2003
Tetrachloroethylene (Perchloroethylene)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Thallium	EPA 200.7	Metals	NELAP	8/21/2001
Thallium	EPA 200.9	Metals	NELAP	8/21/2001
Thallium	EPA 6010	Metals	NELAP	7/1/2003
Thallium	EPA 7841	Metals	NELAP	7/1/2003
Thionazin (Zinophos)	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Tin	EPA 200.7	Metals	NELAP	8/21/2001
Tin	EPA 6010	Metals	NELAP	7/1/2003
Titanium	EPA 6010	Metals	NELAP	7/1/2003
Tokuthion (Prothiophos)	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Toluene	EPA 602	Volatile Organics	NELAP	8/21/2001
Toluene	EPA 624	Volatile Organics	NELAP	8/21/2001
Toluene	EPA 8021	Volatile Organics	NELAP	7/1/2003
Toluene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Total coliforms	SM 9221 B	Microbiology	NELAP	11/26/2001
Total coliforms	SM 9222 B	Microbiology	NELAP	11/26/2001
Total cyanide	EPA 335.2	General Chemistry	NELAP	10/4/2002
Total cyanide	EPA 9010/9014	General Chemistry	NELAP	7/1/2003
Total cyanide	EPA 9014	General Chemistry	NELAP	7/1/2003
Total hardness as CaCO3	SM 2340 B	Metals	NELAP	8/21/2001
Total nitrate-nitrite	EPA 300.0	General Chemistry	NELAP	10/4/2002
Total nitrate-nitrite	EPA 9056	Metals	NELAP	7/1/2003
Total organic carbon	EPA 415.1	General Chemistry	NELAP	10/4/2002
Total Petroleum Hydrocarbons (TPH)	EPA 1664	General Chemistry	NELAP	8/21/2001
Total Petroleum Hydrocarbons (TPH)	FL-PRO	Extractable Organics	NELAP	7/1/2003
Total phenolics	EPA 420.1	General Chemistry	NELAP	10/4/2002
Total phenolics	EPA 9066	General Chemistry	NELAP	7/1/2003
Total residual chlorine	EPA 330.4	General Chemistry	NELAP	8/21/2001
Total residual chlorine	SM 4500 Cl B	General Chemistry	NELAP	8/21/2001
Total, fixed, and volatile residue	SM 2540 G	General Chemistry	NELAP	8/21/2001
Toxaphene (Chlorinated camphene)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Toxaphene (Chlorinated camphene)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
trans-1,2-Dichloroethylene	EPA 601	Volatile Organics	NELAP	8/21/2001
trans-1,2-Dichloroethylene	EPA 624	Volatile Organics	NELAP	8/21/2001
trans-1,2-Dichloroethylene	EPA 8021	Volatile Organics	NELAP	7/1/2003

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STL Tampa
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Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
trans-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	7/1/2003
trans-1,3-Dichloropropylene	EPA 601	Volatile Organics	NELAP	8/21/2001
trans-1,3-Dichloropropylene	EPA 624	Volatile Organics	NELAP	8/21/2001
trans-1,3-Dichloropropylene	EPA 8021	Volatile Organics	NELAP	7/1/2003
trans-1,3-Dichloropropylene	EPA 8260	Volatile Organics	NELAP	7/1/2003
trans-1,4-Dichloro-2-butene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Trichloroethene (Trichloroethylene)	EPA 601	Volatile Organics	NELAP	8/21/2001
Trichloroethene (Trichloroethylene)	EPA 624	Volatile Organics	NELAP	8/21/2001
Trichloroethene (Trichloroethylene)	EPA 8021	Volatile Organics	NELAP	7/1/2003
Trichloroethene (Trichloroethylene)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Trichlorofluoromethane	EPA 601	Volatile Organics	NELAP	8/21/2001
Trichlorofluoromethane	EPA 624	Volatile Organics	NELAP	8/21/2001
Trichlorofluoromethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
Trichlorofluoromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Trichloronate	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Turbidity	EPA 180.1	General Chemistry	NELAP	8/21/2001
Un-ionized Ammonia	DEP SOP 10/03/83	General Chemistry	NELAP	8/21/2001
Vanadium	EPA 200.7	Metals	NELAP	8/21/2001
Vanadium	EPA 6010	Metals	NELAP	7/1/2003
Vinyl acetate	EPA 8260	Volatile Organics	NELAP	7/1/2003
Vinyl chloride	EPA 601	Volatile Organics	NELAP	8/21/2001
Vinyl chloride	EPA 624	Volatile Organics	NELAP	8/21/2001
Vinyl chloride	EPA 8021	Volatile Organics	NELAP	7/1/2003
Vinyl chloride	EPA 8260	Volatile Organics	NELAP	7/1/2003
Xylene (total)	EPA 602	Volatile Organics	NELAP	8/21/2001
Xylene (total)	EPA 624	Volatile Organics	NELAP	8/21/2001
Xylene (total)	EPA 8021	Volatile Organics	NELAP	7/1/2003
Xylene (total)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Zinc	EPA 200.7	Metals	NELAP	8/21/2001
Zinc	EPA 6010	Metals	NELAP	7/1/2003

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State Laboratory ID: E84282 **EPA Lab Code: FL00497** **(813) 885-7427**

E84282
STL Tampa
6712 Benjamin Road - Suite 100
Tampa, FL 33634

Matrix: Solid and Chemical Materials

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,1,1,2-Tetrachloroethane	EPA 8021	Volatile Organics	NELAP	1/28/2002
1,1,1,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,1,1-Trichloroethane	EPA 8021	Volatile Organics	NELAP	8/21/2001
1,1,1-Trichloroethane	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,1,2,2-Tetrachloroethane	EPA 8021	Volatile Organics	NELAP	8/21/2001
1,1,2,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,1,2-Trichloroethane	EPA 8021	Volatile Organics	NELAP	8/21/2001
1,1,2-Trichloroethane	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,1-Dichloroethane	EPA 8021	Volatile Organics	NELAP	8/21/2001
1,1-Dichloroethane	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,1-Dichloroethylene	EPA 8021	Volatile Organics	NELAP	8/21/2001
1,1-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,1-Dichloropropene	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,2,3-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,2,3-Trichloropropane	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,2,4,5-Tetrachlorobenzene	EPA 8270	Extractable Organics	NELAP	10/4/2002
1,2,4-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,2,4-Trichlorobenzene	EPA 8270	Extractable Organics	NELAP	8/21/2001
1,2,4-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8011	Volatile Organics	NELAP	8/21/2001
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8011	Volatile Organics	NELAP	8/21/2001
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,2-Dichlorobenzene	EPA 8021	Volatile Organics	NELAP	8/21/2001
1,2-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,2-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	8/21/2001
1,2-Dichloroethane	EPA 8021	Volatile Organics	NELAP	8/21/2001
1,2-Dichloroethane	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,2-Dichloropropane	EPA 8021	Volatile Organics	NELAP	8/21/2001
1,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,2-Diphenylhydrazine	EPA 8270	Extractable Organics	NELAP	8/21/2001
1,3,5-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8270	Extractable Organics	NELAP	10/4/2002
1,3-Dichlorobenzene	EPA 8021	Volatile Organics	NELAP	8/21/2001
1,3-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,3-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	8/21/2001

Laboratory Scope of Accreditation

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State Laboratory ID: E84282 **EPA Lab Code: FL00497** **(813) 885-7427**

E84282
STL Tampa
6712 Benjamin Road - Suite 100
Tampa, FL 33634

Matrix: Solid and Chemical Materials

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,3-Dichloropropane	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,3-Dinitrobenzene (1,3-DNB)	EPA 8270	Extractable Organics	NELAP	10/4/2002
1,4-Dichlorobenzene	EPA 8021	Volatile Organics	NELAP	8/21/2001
1,4-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	8/21/2001
1,4-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	8/21/2001
1,4-Naphthoquinone	EPA 8270	Extractable Organics	NELAP	10/4/2002
1,4-Phenylenediamine	EPA 8270	Extractable Organics	NELAP	10/4/2002
1-Methylnaphthalene	EPA 8310	Extractable Organics	NELAP	10/4/2002
1-Naphthylamine	EPA 8270	Extractable Organics	NELAP	10/4/2002
2,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	8/21/2001
2,3,4,6-Tetrachlorophehol	EPA 8270	Extractable Organics	NELAP	8/21/2001
2,4,5-T	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
2,4,5-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	8/21/2001
2,4,6-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	8/21/2001
2,4-D	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
2,4-DB	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
2,4-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	8/21/2001
2,4-Dimethylphenol	EPA 8270	Extractable Organics	NELAP	8/21/2001
2,4-Dinitrophenol	EPA 8270	Extractable Organics	NELAP	8/21/2001
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270	Extractable Organics	NELAP	8/21/2001
2,6-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	8/21/2001
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270	Extractable Organics	NELAP	8/21/2001
2-Acetylaminofluorene	EPA 8270	Extractable Organics	NELAP	10/4/2002
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260	Volatile Organics	NELAP	8/21/2001
2-Chloroethyl vinyl ether	EPA 8021	Volatile Organics	NELAP	8/21/2001
2-Chloroethyl vinyl ether	EPA 8260	Volatile Organics	NELAP	8/21/2001
2-Chloronaphthalene	EPA 8270	Extractable Organics	NELAP	8/21/2001
2-Chlorophenol	EPA 8270	Extractable Organics	NELAP	8/21/2001
2-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	8/21/2001
2-Hexanone	EPA 8260	Volatile Organics	NELAP	8/21/2001
2-Methyl-4,6-dinitrophenol	EPA 8270	Extractable Organics	NELAP	8/21/2001
2-Methylnaphthalene	EPA 8270	Extractable Organics	NELAP	8/21/2001
2-Methylnaphthalene	EPA 8310	Extractable Organics	NELAP	10/4/2002
2-Methylphenol (o-Cresol)	EPA 8270	Extractable Organics	NELAP	8/21/2001
2-Nitroaniline	EPA 8270	Extractable Organics	NELAP	8/21/2001
2-Nitrophenol	EPA 8270	Extractable Organics	NELAP	8/21/2001

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Analyte	Method/Tech	Category	Certification Type	Effective Date
2-Picoline (2-Methylpyridine)	EPA 8270	Extractable Organics	NELAP	10/4/2002
2-Sec-butyl-4,6-dinitrophenol (DNBP, Dinoseb)	EPA 8270	Extractable Organics	NELAP	10/4/2002
3,3'-Dichlorobenzidine	EPA 8270	Extractable Organics	NELAP	8/21/2001
3,3'-Dimethylbenzidine	EPA 8270	Extractable Organics	NELAP	10/4/2002
3-Methylcholanthrene	EPA 8270	Extractable Organics	NELAP	10/4/2002
3-Methylphenol (m-Cresol)	EPA 8270	Extractable Organics	NELAP	10/4/2002
3-Nitroaniline	EPA 8270	Extractable Organics	NELAP	8/21/2001
4,4'-DDD	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
4,4'-DDD	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
4,4'-DDE	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
4,4'-DDE	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
4,4'-DDT	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
4,4'-DDT	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
4-Aminobiphenyl	EPA 8270	Extractable Organics	NELAP	10/4/2002
4-Bromophenyl phenyl ether	EPA 8270	Extractable Organics	NELAP	8/21/2001
4-Chloro-3-methylphenol	EPA 8270	Extractable Organics	NELAP	8/21/2001
4-Chloroaniline	EPA 8270	Extractable Organics	NELAP	8/21/2001
4-Chlorophenyl phenylether	EPA 8270	Extractable Organics	NELAP	8/21/2001
4-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	8/21/2001
4-Dimethyl aminoazobenzene	EPA 8270	Extractable Organics	NELAP	10/4/2002
4-Methyl-2-pentanone (MIBK)	EPA 8260	Volatile Organics	NELAP	8/21/2001
4-Methylphenol (p-Cresol)	EPA 8270	Extractable Organics	NELAP	8/21/2001
4-Nitroaniline	EPA 8270	Extractable Organics	NELAP	8/21/2001
4-Nitrophenol	EPA 8270	Extractable Organics	NELAP	8/21/2001
5-Nitro-o-toluidine	EPA 8270	Extractable Organics	NELAP	10/4/2002
7,12-Dimethylbenz(a) anthracene	EPA 8270	Extractable Organics	NELAP	10/4/2002
a-a-Dimethylphenethylamine	EPA 8270	Extractable Organics	NELAP	10/4/2002
Acenaphthene	EPA 8100	Extractable Organics	NELAP	8/21/2001
Acenaphthene	EPA 8270	Extractable Organics	NELAP	8/21/2001
Acenaphthene	EPA 8310	Extractable Organics	NELAP	10/7/2002
Acenaphthylene	EPA 8100	Extractable Organics	NELAP	8/21/2001
Acenaphthylene	EPA 8270	Extractable Organics	NELAP	8/21/2001
Acenaphthylene	EPA 8310	Extractable Organics	NELAP	10/7/2002
Acetone	EPA 8260	Volatile Organics	NELAP	8/21/2001
Acetonitrile	EPA 8260	Volatile Organics	NELAP	8/21/2001
Acetophenone	EPA 8270	Extractable Organics	NELAP	10/4/2002

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Acrolein (Propenal)	EPA 8260	Volatile Organics	NELAP	8/21/2001
Acrylonitrile	EPA 8260	Volatile Organics	NELAP	8/21/2001
Aldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Aldrin	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Allyl chloride (3-Chloropropene)	EPA 8260	Volatile Organics	NELAP	8/21/2001
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
alpha-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Aluminum	EPA 6010	Metals	NELAP	8/21/2001
Aniline	EPA 8270	Extractable Organics	NELAP	8/21/2001
Anthracene	EPA 8100	Extractable Organics	NELAP	8/21/2001
Anthracene	EPA 8270	Extractable Organics	NELAP	8/21/2001
Anthracene	EPA 8310	Extractable Organics	NELAP	10/7/2002
Antimony	EPA 6010	Metals	NELAP	8/21/2001
Antimony	EPA 7041	Metals	NELAP	8/21/2001
Aramite	EPA 8270	Extractable Organics	NELAP	10/4/2002
Aroclor-1016 (PCB-1016)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Aroclor-1221 (PCB-1221)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Aroclor-1232 (PCB-1232)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Aroclor-1242 (PCB-1242)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Aroclor-1248 (PCB-1248)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Aroclor-1254 (PCB-1254)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Aroclor-1260 (PCB-1260)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Arsenic	EPA 6010	Metals	NELAP	8/21/2001
Arsenic	EPA 7060	Metals	NELAP	8/21/2001
Atrazine	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Azinphos-methyl (Guthion)	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Azinphos-methyl (Guthion)	EPA 8270	Extractable Organics	NELAP	10/4/2002
Barium	EPA 6010	Metals	NELAP	8/21/2001
Benzene	EPA 8021	Volatile Organics	NELAP	8/21/2001
Benzene	EPA 8260	Volatile Organics	NELAP	8/21/2001
Benzo(a)anthracene	EPA 8100	Extractable Organics	NELAP	8/21/2001
Benzo(a)anthracene	EPA 8270	Extractable Organics	NELAP	8/21/2001
Benzo(a)anthracene	EPA 8310	Extractable Organics	NELAP	10/7/2002
Benzo(a)pyrene	EPA 8100	Extractable Organics	NELAP	8/21/2001
Benzo(a)pyrene	EPA 8270	Extractable Organics	NELAP	8/21/2001

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Benzo(a)pyrene	EPA 8310	Extractable Organics	NELAP	10/7/2002
Benzo(b)fluoranthene	EPA 8100	Extractable Organics	NELAP	8/21/2001
Benzo(b)fluoranthene	EPA 8270	Extractable Organics	NELAP	8/21/2001
Benzo(b)fluoranthene	EPA 8310	Extractable Organics	NELAP	10/7/2002
Benzo(g,h,i)perylene	EPA 8100	Extractable Organics	NELAP	8/21/2001
Benzo(g,h,i)perylene	EPA 8270	Extractable Organics	NELAP	8/21/2001
Benzo(g,h,i)perylene	EPA 8310	Extractable Organics	NELAP	10/7/2002
Benzo(k)fluoranthene	EPA 8100	Extractable Organics	NELAP	8/21/2001
Benzo(k)fluoranthene	EPA 8270	Extractable Organics	NELAP	8/21/2001
Benzo(k)fluoranthene	EPA 8310	Extractable Organics	NELAP	10/7/2002
Benzoic acid	EPA 8270	Extractable Organics	NELAP	8/21/2001
Benzyl alcohol	EPA 8270	Extractable Organics	NELAP	8/21/2001
Beryllium	EPA 6010	Metals	NELAP	8/21/2001
beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
beta-BHC (beta-Hexachlorocyclohexane)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
beta-Naphthylamine	EPA 8270	Extractable Organics	NELAP	10/4/2002
bis(2-Chloroethoxy)methane	EPA 8270	Extractable Organics	NELAP	8/21/2001
bis(2-Chloroethyl) ether	EPA 8270	Extractable Organics	NELAP	8/21/2001
bis(2-Chloroisopropyl) ether	EPA 8270	Extractable Organics	NELAP	8/21/2001
bis(2-Ethylhexyl) phthalate (DEHP)	EPA 8270	Extractable Organics	NELAP	8/21/2001
Bolstar (Sulprofos)	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Boron	EPA 6010	Metals	NELAP	10/7/2002
Bromide	EPA 9056	General Chemistry	NELAP	10/4/2002
Bromobenzene	EPA 8260	Volatile Organics	NELAP	8/21/2001
Bromochloromethane	EPA 8260	Volatile Organics	NELAP	8/21/2001
Bromodichloromethane	EPA 8021	Volatile Organics	NELAP	8/21/2001
Bromodichloromethane	EPA 8260	Volatile Organics	NELAP	8/21/2001
Bromoform	EPA 8021	Volatile Organics	NELAP	8/21/2001
Bromoform	EPA 8260	Volatile Organics	NELAP	8/21/2001
Butyl benzyl phthalate	EPA 8270	Extractable Organics	NELAP	8/21/2001
Cadmium	EPA 6010	Metals	NELAP	8/21/2001
Calcium	EPA 6010	Metals	NELAP	8/21/2001
Carbaryl (Sevin)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Carbazole	EPA 8270	Extractable Organics	NELAP	8/21/2001
Carbon disulfide	EPA 8260	Volatile Organics	NELAP	8/21/2001
Carbon tetrachloride	EPA 8021	Volatile Organics	NELAP	8/21/2001

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Carbon tetrachloride	EPA 8260	Volatile Organics	NELAP	8/21/2001
Chlordane,(tech.)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Chloride	EPA 9056	General Chemistry	NELAP	10/4/2002
Chlorobenzene	EPA 8021	Volatile Organics	NELAP	8/21/2001
Chlorobenzene	EPA 8260	Volatile Organics	NELAP	8/21/2001
Chlorobenzilate	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	10/22/2003
Chloroethane	EPA 8021	Volatile Organics	NELAP	8/21/2001
Chloroethane	EPA 8260	Volatile Organics	NELAP	8/21/2001
Chloroform	EPA 8021	Volatile Organics	NELAP	8/21/2001
Chloroform	EPA 8260	Volatile Organics	NELAP	8/21/2001
Chloroprene	EPA 8260	Volatile Organics	NELAP	8/21/2001
Chlorpyrifos	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Chlorpyrifos methyl	EPA 8141	Extractable Organics	NELAP	10/4/2002
Chromium	EPA 6010	Metals	NELAP	8/21/2001
Chromium VI	EPA 7196	General Chemistry	NELAP	1/3/2002
Chrysene	EPA 8100	Extractable Organics	NELAP	8/21/2001
Chrysene	EPA 8270	Extractable Organics	NELAP	8/21/2001
Chrysene	EPA 8310	Extractable Organics	NELAP	10/7/2002
cis-1,2-Dichloroethylene	EPA 8021	Volatile Organics	NELAP	8/21/2001
cis-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	8/21/2001
cis-1,3-Dichloropropene	EPA 8021	Volatile Organics	NELAP	8/21/2001
cis-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	8/21/2001
Cobalt	EPA 6010	Metals	NELAP	8/21/2001
Conductivity	EPA 9050	General Chemistry	NELAP	8/21/2001
Copper	EPA 6010	Metals	NELAP	8/21/2001
Corrosivity (pH)	EPA 9040	General Chemistry	NELAP	8/21/2001
Coumaphos	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Dalapon	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
delta-BHC	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
delta-BHC	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Demeton-o	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Demeton-s	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Diallate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Diazinon	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Dibenz(a,h) anthracene	EPA 8100	Extractable Organics	NELAP	8/21/2001
Dibenz(a,h) anthracene	EPA 8270	Extractable Organics	NELAP	8/21/2001

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Dibenz(a,h) anthracene	EPA 8310	Extractable Organics	NELAP	10/7/2002
Dibenzofuran	EPA 8270	Extractable Organics	NELAP	8/21/2001
Dibromochloromethane	EPA 8021	Volatile Organics	NELAP	8/21/2001
Dibromochloromethane	EPA 8260	Volatile Organics	NELAP	8/21/2001
Dibromomethane	EPA 8021	Volatile Organics	NELAP	8/21/2001
Dibromomethane	EPA 8260	Volatile Organics	NELAP	8/21/2001
Dicamba	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Dichlorodifluoromethane	EPA 8021	Volatile Organics	NELAP	8/21/2001
Dichlorodifluoromethane	EPA 8260	Volatile Organics	NELAP	8/21/2001
Dichloroprop (Dichlorprop)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Dichlorovos (DDVP, Dichlorvos)	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Dieldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Dieldrin	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Diesel range organics (DRO)	EPA 8015	Extractable Organics	NELAP	8/21/2001
Diethyl phthalate	EPA 8270	Extractable Organics	NELAP	8/21/2001
Dimethoate	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Dimethyl phthalate	EPA 8270	Extractable Organics	NELAP	8/21/2001
Di-n-butyl phthalate	EPA 8270	Extractable Organics	NELAP	8/21/2001
Di-n-octyl phthalate	EPA 8270	Extractable Organics	NELAP	8/21/2001
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Diphenylamine	EPA 8270	Extractable Organics	NELAP	10/4/2002
Disulfoton	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/7/2002
Disulfoton	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	10/7/2002
Endosulfan I	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endosulfan I	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endosulfan II	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endosulfan II	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endosulfan sulfate	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endosulfan sulfate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endrin	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endrin aldehyde	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endrin aldehyde	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endrin ketone	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Endrin ketone	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	8/21/2001

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State Laboratory ID: E84282 EPA Lab Code: FL00497 (813) 885-7427

E84282
STL Tampa
6712 Benjamin Road - Suite 100
Tampa, FL 33634

Matrix: Solid and Chemical Materials

Analyte	Method/Tech	Category	Certification Type	Effective Date
EPN	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Ethion	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Ethoprop	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Ethyl methacrylate	EPA 8260	Volatile Organics	NELAP	8/21/2001
Ethyl methanesulfonate	EPA 8270	Extractable Organics	NELAP	10/4/2002
Ethylbenzene	EPA 8021	Volatile Organics	NELAP	8/21/2001
Ethylbenzene	EPA 8260	Volatile Organics	NELAP	8/21/2001
Famphur	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/22/2003
Fensulfothion	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Fensulfothion	EPA 8270	Extractable Organics	NELAP	10/4/2002
Fenthion	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Fluoranthene	EPA 8100	Extractable Organics	NELAP	8/21/2001
Fluoranthene	EPA 8270	Extractable Organics	NELAP	8/21/2001
Fluoranthene	EPA 8310	Extractable Organics	NELAP	10/7/2002
Fluorene	EPA 8100	Extractable Organics	NELAP	8/21/2001
Fluorene	EPA 8270	Extractable Organics	NELAP	8/21/2001
Fluorene	EPA 8310	Extractable Organics	NELAP	10/7/2002
Fluoride	EPA 9056	General Chemistry	NELAP	10/4/2002
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
gamma-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Gasoline range organics (GRO)	EPA 8015	Extractable Organics	NELAP	8/21/2001
Heptachlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Heptachlor	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Heptachlor epoxide	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Heptachlor epoxide	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Hexachlorobenzene	EPA 8270	Extractable Organics	NELAP	8/21/2001
Hexachlorobutadiene	EPA 8260	Volatile Organics	NELAP	8/21/2001
Hexachlorobutadiene	EPA 8270	Extractable Organics	NELAP	8/21/2001
Hexachlorocyclopentadiene	EPA 8270	Extractable Organics	NELAP	8/21/2001
Hexachloroethane	EPA 8270	Extractable Organics	NELAP	8/21/2001
Hexachlorophene	EPA 8270	Extractable Organics	NELAP	10/4/2002
Hexachloropropene	EPA 8270	Extractable Organics	NELAP	10/4/2002
Ignitability	EPA 1030	General Chemistry	NELAP	8/21/2001
Indeno(1,2,3-cd)pyrene	EPA 8100	Extractable Organics	NELAP	8/21/2001
Indeno(1,2,3-cd)pyrene	EPA 8270	Extractable Organics	NELAP	8/21/2001

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Indeno(1,2,3-cd)pyrene	EPA 8310	Extractable Organics	NELAP	10/7/2002
Iodomethane (Methyl iodide)	EPA 8260	Volatile Organics	NELAP	8/21/2001
Iron	EPA 6010	Metals	NELAP	8/21/2001
Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8260	Volatile Organics	NELAP	8/21/2001
Isodrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	10/22/2003
Isophorone	EPA 8270	Extractable Organics	NELAP	8/21/2001
Isopropylbenzene	EPA 8260	Volatile Organics	NELAP	8/21/2001
Isosafrole	EPA 8270	Extractable Organics	NELAP	10/4/2002
Kepone	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	10/22/2003
Lead	EPA 6010	Metals	NELAP	8/21/2001
Lead	EPA 7421	Metals	NELAP	8/21/2001
Lithium	EPA 6010	Metals	NELAP	10/4/2002
Magnesium	EPA 6010	Metals	NELAP	8/21/2001
Malathion	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Malathion	EPA 8270	Extractable Organics	NELAP	10/4/2002
Manganese	EPA 6010	Metals	NELAP	8/21/2001
MCPA	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
MCPP	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Mercury	EPA 7470	Metals	NELAP	8/21/2001
Mercury	EPA 7471	Metals	NELAP	8/21/2001
Merphos	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Methacrylonitrile	EPA 8260	Volatile Organics	NELAP	8/21/2001
Methapyrilene	EPA 8270	Extractable Organics	NELAP	10/4/2002
Methoxychlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Methyl bromide (Bromomethane)	EPA 8021	Volatile Organics	NELAP	8/21/2001
Methyl bromide (Bromomethane)	EPA 8260	Volatile Organics	NELAP	8/21/2001
Methyl chloride (Chloromethane)	EPA 8021	Volatile Organics	NELAP	8/21/2001
Methyl chloride (Chloromethane)	EPA 8260	Volatile Organics	NELAP	8/21/2001
Methyl methacrylate	EPA 8260	Volatile Organics	NELAP	8/21/2001
Methyl methanesulfonate	EPA 8270	Extractable Organics	NELAP	10/4/2002
Methyl parathion (Parathion, methyl)	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Methyl parathion (Parathion, methyl)	EPA 8270	Extractable Organics	NELAP	10/4/2002
Methyl tert-butyl ether (MTBE)	EPA 8021	Volatile Organics	NELAP	8/21/2001
Methyl tert-butyl ether (MTBE)	EPA 8260	Volatile Organics	NELAP	8/21/2001
Methylene chloride	EPA 8021	Volatile Organics	NELAP	8/21/2001
Methylene chloride	EPA 8260	Volatile Organics	NELAP	8/21/2001

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Mevinphos	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Mirex	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	10/22/2003
Molybdenum	EPA 6010	Metals	NELAP	8/21/2001
Monocrotophos	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Naled	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Naphthalene	EPA 8021	Volatile Organics	NELAP	8/21/2001
Naphthalene	EPA 8100	Extractable Organics	NELAP	8/21/2001
Naphthalene	EPA 8260	Volatile Organics	NELAP	8/21/2001
Naphthalene	EPA 8270	Extractable Organics	NELAP	8/21/2001
Naphthalene	EPA 8310	Extractable Organics	NELAP	10/7/2002
n-Butylbenzene	EPA 8260	Volatile Organics	NELAP	8/21/2001
Nickel	EPA 6010	Metals	NELAP	8/21/2001
Nitrate	EPA 9056	General Chemistry	NELAP	10/4/2002
Nitrite	EPA 9056	General Chemistry	NELAP	10/4/2002
Nitrobenzene	EPA 8270	Extractable Organics	NELAP	8/21/2001
Nitroquinoline-1-oxide	EPA 8270	Extractable Organics	NELAP	10/4/2002
n-Nitrosodiethylamine	EPA 8270	Extractable Organics	NELAP	10/4/2002
n-Nitrosodimethylamine	EPA 8270	Extractable Organics	NELAP	8/21/2001
n-Nitroso-di-n-butylamine	EPA 8270	Extractable Organics	NELAP	10/4/2002
n-Nitrosodi-n-propylamine	EPA 8270	Extractable Organics	NELAP	8/21/2001
n-Nitrosodiphenylamine	EPA 8270	Extractable Organics	NELAP	8/21/2001
n-Nitrosomethylethylamine	EPA 8270	Extractable Organics	NELAP	10/4/2002
n-Nitrosomorpholine	EPA 8270	Extractable Organics	NELAP	10/4/2002
n-Nitrosopiperidine	EPA 8270	Extractable Organics	NELAP	10/4/2002
n-Nitrosopyrrolidine	EPA 8270	Extractable Organics	NELAP	10/4/2002
n-Propylbenzene	EPA 8260	Volatile Organics	NELAP	8/21/2001
o,o,o-Triethyl phosphorothioate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Orthophosphate as P	EPA 9056	General Chemistry	NELAP	10/4/2002
o-Toluidine	EPA 8270	Extractable Organics	NELAP	10/4/2002
Paint Filter Liquids Test	EPA 9095	General Chemistry	NELAP	10/4/2002
Parathion, ethyl	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Parathion, ethyl	EPA 8270	Extractable Organics	NELAP	10/4/2002
Pentachlorobenzene	EPA 8270	Extractable Organics	NELAP	10/4/2002
Pentachloronitrobenzene	EPA 8270	Extractable Organics	NELAP	10/4/2002
Pentachlorophenol	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Pentachlorophenol	EPA 8270	Extractable Organics	NELAP	8/21/2001

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Analyte	Method/Tech	Category	Certification Type	Effective Date
pH	EPA 9040	General Chemistry	NELAP	8/21/2001
pH	EPA 9045	General Chemistry	NELAP	8/21/2001
Phenacetin	EPA 8270	Extractable Organics	NELAP	10/4/2002
Phenanthrene	EPA 8100	Extractable Organics	NELAP	8/21/2001
Phenanthrene	EPA 8270	Extractable Organics	NELAP	8/21/2001
Phenanthrene	EPA 8310	Extractable Organics	NELAP	10/7/2002
Phenol	EPA 8270	Extractable Organics	NELAP	8/21/2001
Phorate	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Phosmet (Imidan)	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Picloram	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
p-Isopropyltoluene	EPA 8260	Volatile Organics	NELAP	8/21/2001
Potassium	EPA 6010	Metals	NELAP	8/21/2001
Pronamide (Kerb)	EPA 8270	Extractable Organics	NELAP	10/4/2002
Pyrene	EPA 8100	Extractable Organics	NELAP	8/21/2001
Pyrene	EPA 8270	Extractable Organics	NELAP	8/21/2001
Pyrene	EPA 8310	Extractable Organics	NELAP	10/7/2002
Pyridine	EPA 8270	Extractable Organics	NELAP	10/4/2002
Ronnel	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Safrole	EPA 8270	Extractable Organics	NELAP	10/4/2002
sec-Butylbenzene	EPA 8260	Volatile Organics	NELAP	8/21/2001
Selenium	EPA 6010	Metals	NELAP	8/21/2001
Selenium	EPA 7740	Metals	NELAP	8/21/2001
Silver	EPA 6010	Metals	NELAP	8/21/2001
Silvex (2,4,5-TP)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Simazine	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/22/2003
Sodium	EPA 6010	Metals	NELAP	8/21/2001
Stirofos	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Strontium	EPA 6010	Metals	NELAP	10/4/2002
Styrene	EPA 8260	Volatile Organics	NELAP	8/21/2001
Sulfate	EPA 9038	General Chemistry	NELAP	8/21/2001
Sulfate	EPA 9056	General Chemistry	NELAP	10/4/2002
Sulfotepp	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Synthetic Precipitation Leaching Procedure	EPA 1312	General Chemistry	NELAP	8/21/2001
tert-Butylbenzene	EPA 8260	Volatile Organics	NELAP	8/21/2001
Tetrachloroethylene (Perchloroethylene)	EPA 8021	Volatile Organics	NELAP	8/21/2001
Tetrachloroethylene (Perchloroethylene)	EPA 8260	Volatile Organics	NELAP	8/21/2001

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Thallium	EPA 6010	Metals	NELAP	8/21/2001
Thallium	EPA 7841	Metals	NELAP	8/21/2001
Thionazin (Zinophos)	EPA 8141	Extractable Organics	NELAP	10/4/2002
Tin	EPA 6010	Metals	NELAP	8/21/2001
Titanium	EPA 6010	Metals	NELAP	10/4/2002
Tokuthion (Prothiophos)	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Toluene	EPA 8021	Volatile Organics	NELAP	8/21/2001
Toluene	EPA 8260	Volatile Organics	NELAP	8/21/2001
Total cyanide	EPA 9010/9014	Metals	NELAP	10/7/2002
Total cyanide	EPA 9014	General Chemistry	NELAP	10/7/2002
Total nitrate-nitrite	EPA 9056	General Chemistry	NELAP	10/4/2002
Total Petroleum Hydrocarbons (TPH)	FL-PRO	Extractable Organics	NELAP	8/21/2001
Total phenolics	EPA 9066	General Chemistry	NELAP	10/4/2002
Toxaphene (Chlorinated camphene)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	8/21/2001
Toxicity Characteristic Leaching Procedure	EPA 1311	General Chemistry	NELAP	8/21/2001
trans-1,2-Dichloroethylene	EPA 8021	Volatile Organics	NELAP	8/21/2001
trans-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	8/21/2001
trans-1,3-Dichloropropylene	EPA 8021	Volatile Organics	NELAP	8/21/2001
trans-1,3-Dichloropropylene	EPA 8260	Volatile Organics	NELAP	8/21/2001
trans-1,4-Dichloro-2-butene	EPA 8260	Volatile Organics	NELAP	8/21/2001
Trichloroethene (Trichloroethylene)	EPA 8021	Volatile Organics	NELAP	8/21/2001
Trichloroethene (Trichloroethylene)	EPA 8260	Volatile Organics	NELAP	8/21/2001
Trichlorofluoromethane	EPA 8021	Volatile Organics	NELAP	8/21/2001
Trichlorofluoromethane	EPA 8260	Volatile Organics	NELAP	8/21/2001
Trichloronate	EPA 8141	Pesticides-Herbicides-PCB's	NELAP	10/4/2002
Vanadium	EPA 6010	Metals	NELAP	8/21/2001
Vinyl acetate	EPA 8260	Volatile Organics	NELAP	8/21/2001
Vinyl chloride	EPA 8021	Volatile Organics	NELAP	8/21/2001
Vinyl chloride	EPA 8260	Volatile Organics	NELAP	8/21/2001
Xylene (total)	EPA 8021	Volatile Organics	NELAP	8/21/2001
Xylene (total)	EPA 8260	Volatile Organics	NELAP	8/21/2001
Zinc	EPA 6010	Metals	NELAP	8/21/2001

APPENDIX E

DATA REPORTS &

VALIDATOR DATA FROM CD

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