TEMPLATE SITE ASSESSMENT REPORT			
Site Name:	Amoco #89		
Facility ID #:	06/8516885		
Date:	November 12, 2015		

TEMPLATE SITE ASSESSMENT REPORT

	DATE: November	12, 2013	
Site FDEP Facility ID #:	60/8516885 Score: 30	Program	
Site Name:	Amoco #89	Preapproval	
Address:	305 South Main Street	WO#:	
City:	Wildwood	State Cleanup	
County:	Sumter	<i>TA#:</i>	
		Bid Project	
Consultant Company:	Andreyev Engineering, Inc.	Contract #:	
Address:	1170 West Minneola Ave	Site #:	
City, State, Zip:	Clermont, Fl. 34711	Non-Program / Voluntary Cleanup	
Consultant Rep.:	Robert Cornelius	yes no	
Phone #:	352-857-3969	<u>Cluster Site?</u>	
		If yes, indicate facility ID #s & Site Names	
Responsible Party Name:	W. Ronald Gasque	Facility ID # Site Name	
Address:	12729 CR 103	1)	
City, State, Zip:	Oxford, Florida 34484	2)	
Responsible Party Rep.:	Ronald Gasque	3)	
Phone #:	352-748-1663	4)	
		5)	

[Signature Page]

DATE: November 12 2015

CERTIFICATION:

A Qualified Registered Professional Engineer or Registered Professional Geologist Certification I hereby certify that I have supervised the field work (as summarized in the "Recent Site Assessment Activities" section) and preparation of this report, in accordance with Florida Rules and Regulations. As a registered professional geologist and/or professional engineer, as authorized by Chapters 492 or 471, Florida Statutes, I certify that I am a qualified groundwater professional, with knowledge and experience in groundwater contamination assessment and cleanup. To the best of my knowledge, the information and laboratory data summarized in the "Recent Site Assessment Activities" section (including the applicable attachments) are true, accurate, complete, and in accordance with applicable State Rules and Regulations. Include a hard (paper) copy of this cover page, signed and sealed, when submitting the report electronically.

	PE or PG License #:	69864
Signature:		
	Date:	_FLORIDA Stamp or Seal

TEMPLATE SITE ASSESSMENTSite Name:Amoco #89	REPORT			
Facility ID #: 06/	8516885			
Date: Novem	ber 12, 2015			
	TABLE OF CO	ONTENTS		
SECTIONS INCLUDED IN REP	PORT:			
X List of Attachme	ents			
X SECTION I - Fa	cility and Discharg	e Inform	ation/Ini	tial Abatement
Fill out this section for	each site in the cluster.	0	Cluster Site Ind	lex (if applicable)
A) Site Description		Dort on o	FDEP ID #	Site Name
B) Petroleum Syster	n/Tank History	Part one Part two	00/8510885	Ашосо #89
C) Release Informat	ion	Part three		
C) Release informat	1011	Part four Part five		
D) Initial Abatemen	t/Source Removal	Part six		
X SECTION II - B	ackground Site As	sessment	Informa	tion
A) Disk & Daca	ntor Evaluation		1111011110	
P) Provious No.	pior Evaluation			
C) Previous Por	n-Closule Assessment			
C) Previous Rei	neuration			
X SECTION III - H	Recent Site Assessr	nent Act	ivities	
A) Soil Investig	ation			
B) Groundwater	· Investigation			
C) Eree Product	Investigation			
D) Comments	Investigation			
D) Comments				
X SECTION IV - I	mpacted Media			
A) Lithologic S	immary			
B) Hydrologic S	Summary			
		0	-	
X SECTION V - P	ost Assessment Sur	mmary &	z Recom	mendations
Fill out this section <u>a</u>	<u>fter</u> site assessment has be	en completed	<i>d</i> .	
A) Site Assessm	ent Summary			
B) Recommendations				
C) Comments				
X SECTION VI - Program Issues (for state funded cleanup sites)				
A) Work Plan and Cost Summary				
B) Next Proposal (if applicable)				
Appendices				
(Appendix ID)		(Contents)		
A	FDEP Approval Letter/Pr	operty Acces	ss Agreemen	t/Instrument
	Calibration Form/Soil Bo	ring Logs/Fi	gures	
В		1 1 1	1.0.1.	
C	Soil Tables/Soil Laborato	ry Analytica	I Results	
	Soil Tables/Soil Laborato Benzo (A) Pyrene Conver	ry Analytica	I Results	

Groundwater Tables/Groundwater Laboratory Analytical results MW-1, MW-2, MW-4, MW-5, MW-16, MW-17 Historical Information

E

F

TEMPLATE SITE ASSESSMENT REPORTSite Name:Amoco #89

Site Name:			
Facility ID #:			

Date:

06/8516885 November 12, 2015

LIST of ATTACHMENTS

(Format and calculation examples provided in FDEP SOP Manual and in October 1998 Assessment Report Preparation guidance)

TABLES

ATTACHED	TABLES #	APPENDIX #
Assessment Tables		
X SOIL SCREENING RESULTS	1	В
X SOIL ANALYTICAL RESULTS	2	B
X GROUNDWATER ANALYTICAL RESULTS (monitoring wa	ells) 4	E
X GROUNDWATER ANALYTICAL RESULTS (monitoring wa	ells) <u>5</u>	E
X GROUNDWATER ELEVATION DATA	3	E
MONITORING WELL CONSTRUCTION DATA		
SUPPLY WELL CONSTRUCTION DATA (includes well owner name and address information) OTHER:		
OTHER:		
Remediation Tables (if applicable)		
FREE PRODUCT RECOVERY TABLE		
VES SYSTEM ANALYTICAL & PERFORMANCE SUMMARY		
GROUNDWATER INFLUENT/EFFLUENT SUMMARY		
SYSTEM PERFORMANCE SUMMARY		
AIR SPARGING DATA		
VES WELL DATA		
REMEDIAL SYSTEM SUMMARY		
OTHER:		

TEMPLATE SITE ASSESSMENT REPORTSite Name:Amoco #89

Site Name: Facility ID #:

Facility ID #: Date:

November 12, 2015

06/8516885

FIGURES

ATTACHED Assessment Figures		FIGURE #	APPENDIX #
X	SITE PLAN - including current and/or former tank locations, piping/utilities, and extent of soil excavations (if applicable)	2	A
	SITE VICINITY AREA USE MAP - including all potential off-site sources of contamination and water wells located within 500 feet		
	POTABLE WELL LOCATION MAP - A USGS quadrangle map illustrating all municipal/public and private supply wells located within 1/2 and 1/4 mile, respectively (respective radii illustrated)	<i>n</i>	
<u> </u>	SOIL SAMPLING LOCATIONS - including data collected during monitoring well installation	4	A
<u> </u>	SOIL SCREENING DATA PLOTTED - including data collected from monitoring well installations. <u>This map can include recommended suboring locations</u>	5,6	
X	GROUNDWATER SAMPLING LOCATIONS - including	7-8	A
<u> </u>	GROUNDWATER CONTAMINANT CONCENTRATIONS Benzene, BTEX, MTBE & total Naphthalene concentrations plotted at each sampling point. <u>This map can include recommended well locations</u>	- <u>8-10</u>	A
<u>X</u>	GROUNDWATER ELEVATION CONTOUR MAP(S) - with flow interpretation for each impacted zone. <u>Note, previous flow</u> <u>interpretations should be submitted when they are not consistent with</u> <u>the current flow interpretation(s)</u>	7	<u> </u>
	GROUNDWATER PLUME INTERPRETATION(S) - with contaminant isoconcentration contours plotted for each significant		
	ESTIMATED FREE PRODUCT PLUME AREA - including thickness measured		
	GEOLOGIC/HYDROLOGIC CROSS-SECTION - including lithologic, well screen and depth to water fluctuation information		
	PROPOSED SOIL BORING AND MONITORING WELL LOCATIONS (if not illustrated in another figure)		
	X OTHER: Topographic Map	1	<u> </u>

TEMPLATE SITE	E ASSESSMENT	REPORT
Site Name:	Amoco #89	

Site Name: Facility ID #: Date:

06/8516885 November 12, 2015

FIGURES (continued)

ATTACHED

Remediation Figures

FIGURE # APPENDIX

APPENDIX #

 REMEDIAL SYSTEM SITE LAYOUT - showing remedial system layout and locations of major system components (e.g., monitoring and recovery wells, system housing, effluent discharge, etc.)
 REMEDIATION SYSTEM SCHEMATIC - showing treatment
OTHER:

MISC. ATTACHMENTS

ATTACHED

X	LABORATORY ANALYTICAL REPORTS - including COCs [form 62-770.900(2) is required for all sampling]	B,G
X	FIELD SAMPLING SHEETS - form 62-770.900(3) is required for all groundwater sampling	D
X	WELL COMPLETION REPORTS AND BORING LOGS	Α
	CONTAMINATED SOIL AND/OR GW VOLUME AND CONTAMINANT MASS CALCULATIONS	
	COPIES OF OFF-SITE ACCESS AGREEMENTS	
	COPY OF HEALTH AND SAFETY PLAN	
	COPY OF APPLICABLE WORK ORDER (or task assignment)	
	COPY OF APPLICABLE COST AUTHORIZATION FORMS (verbal authorization forms)	
	COPY OF DISPOSAL MANIFESTS - to document IDW soil and/or groundwater disposal	
	AQUIFER TEST CALCULATIONS	
	CHRONOLOGY OF FIELD WORK PERFORMED - a list of what was performed and when performed	
	COPY OF PREVIOUS REMEDIAL ACTION PLAN APPROVAL ORDER	

TEMPLATE SITE ASSESSMENT REPORT

Site Name: Facility ID #: Date: Amoco #89 06/8516885 November 12, 2015

MISC. ATTACHMENTS (continued)

ATTACHED	APPENDIX #
COPY OF PREVIOUS SITE (OR CONTAMINATION) ASSESSMENT REPORT APPROVAL LETTER	
PROPOSAL FOR NEXT WORK ORDER OR TASK ASSIGNMENT	
COPY OF ALL SUBCONTRACTOR OR MATERIALS INVOICES NEEDED FOR INVOICING	
DRAFT CHANGE ORDER TEMPLATE NEEDED FOR INVOICING	
OTHER:	
OTHER:	
ORIGINAL SIGNED AND SEALED PROFESSIONAL LAND SURVI	EY
ELECTRONIC COPY OF PROFESSIONAL LAND SURVEY	
ELECTRONIC COPY OF TEMPLATE SITE ASSESSMENT REPORT	Г

TEMPLATE SIT Site Name:	E ASSESSMENT REPORT Amoco #89
Facility ID #:	06/8516885
Date:	November 12, 2015

SECTION I - Facility & Discharge Information/Initial Abatement <u>Amoco #89</u>

Cluster Site

Part

Facility FDEP# 06/8516885

Site Name: Amoco #89

I-A) Site Description

Please provide a brief description of the site. What type of business or businesses (if any) are currently operating at the present/former facility? Describe where all former and current fuel tanks, lines and dispensers were/are located (indicating how this information was obtained). Describe any access constraints (utility conduits, canopies, land cover, etc.) which also might influence the placement of monitoring wells and/or the installation of soil borings. Indicate whether there are any owner issues or traffic concerns which might effect when the work can be performed? <u>Please indicate when the requested information is best illustrated on the site map.</u>

The subject site contains a single-story building and a smaller storage shed to the immediate north, along with concrete and asphalt parking areas. The specific areas of investigation is located in the south-central portion of the site and eastern portion of the site. Three (3) 4,000-gallon underground storage tanks (UST's) containing unleaded gasoline and one (1) 2,000-gallon UST containing diesel were previously located on the south-central portion of the site. Two (2) 1,000-gallon UST's, both containing diesel fuel, were previously located on the eastern portion of the site. The four USTs located in the south-central portion of the site were reportedly installed in January, 1984 and removed in March, 1994. The installation or removal dates of the two USTs located on the east end of the subject site are not known. A discharge notification form was filed with the FDEP Department of Environmental Regulation on December 28, 1988 and the site was granted eligibility into the state-administered cleanup under the EDI program on February 18, 1994.

The specific area of investigation is the area where the former underground storage tanks and pump island were located, at the approximate location shown in **Figure 2.** This area consists of grass, surficial sand, asphalt and concrete.

Site map (Figure

2) illustrating all current & former tanks, lines and dispensers (including utilities, canopies, etc.) is included in Appendix A

TEMPLATE SITE ASSESSMENT REPORT

Site Name:	Amoco #89
Facility ID #:	06/8516885
Date:	November 12, 2015

I-B) Petroleum System/Tank History

List current and former UST's and/or AST's operated at site. Systems (PAST AND PRESENT) must be illustrated on Site Plan. This information should be a summary of the Department's STCM database, all tank closure reports (if applicable) and site owner & operator information.

ID#	AST or	Size	Installation	Contents	<u>Status</u>	Date Removed
	UST	(gallons)	Date	(unleaded gasoline/	(active, removed or	or Abandoned
	LICT	1.000	TT 1	diesel/etc.)	abandoned [in place])	(if applicable)
<u> </u>	UST	1,000	Unknown	Diesel	removed	Unknown
2	UST	1,000	Unknown	Diesel	removed	Unknown
3	UST	4,000	Unknown	Unleaded gasoline	Removed	3/1/94
4	UST	4,000	Unknown	Unleaded gasoline	Removed	3/1/94
5	UST	4,000	Unknown	Unleaded gasoline	Removed	3/1/94
6	UST	2,000	Unknown	Diesel	Removed	3/1/94
·						
·						

-If above information is different then the Department's STCM database, please indicate source of updated information:

Active Site? If yes, please indicate method, date and extent of latest tank and line			
tightness test (include copy of tightness test results). If tank tightness test results are			
not available, please explain why they are not necessary or indicate when next tightness test v	vill be p	erformed	!.

Copy of tightness test results included in Appendix

NO

Х

YES

TEMPLATE SIT Site Name:	E ASSESSMENT REPORT Amoco #89
Facility ID #:	06/8516885
Date:	November 12, 2015

I-B) Petroleum System/Tank History (continued)

Petroleum System Closure? If yes, briefly describe type of petroleum system (AST, UST, distribution lines, etc.) and closure activities conducted. <u>Description not</u> needed if copy of system tank closure report included.

YES NO

F

Note: Section I-C should be used to document soil, groundwater or product removal performed during closures.

A copy of the Initial Remediation Action (IRA) Report, including a discussion of UST closure activities conducted in March 1994, is included in Appendix F

Description of system closure activities included in attached tank closure report.

Copy of tank or system closure report (if applicable) included in Appendix

I-C) <u>Release Information</u>

Х

	Discovery Date(s)	<u>Program Type(s)</u> : ATRP, EDI, PCPP, PLRIP or Non-program (please indicate if a non-program discharge has been combined with an eligible discharge)
1st	12/28/88	(Franz minimu) a min Erső, min minimu 9, min erső min minimu 19, min erső (* 1997)
2nd	12/14/90	EDI
3rd		
4th		
5th		
6th		

-Source description and release history that includes date(s) of release(s), cause(s) of release(s), where they occurred, type(s) of product released and volume(s) of release(s) [please explain how estimates were derived].

A discharge notification form was filed with the FDEP Department of Environmental Regulation on December 28, 1988 and the site was granted eligibility into the state-administered cleanup under the EDI program and then switched from State Clean up to Reinbursement on February 18, 1994.

The Form was filed "because of the possibility of contamination." The source, type or volume of the release is not known.

- Suspected type(s) of product released:

X Leaded Gasoline	X Diesel/Kerosene	X Unleaded Gasoline
Used Oil	Unknown	Other:

TEM	IPLA	TE	SITE	A	SSE	SSN	ЛEN	T	REP	ORT

Site Name:	Amoco #89
Facility ID #:	06/8516885
Date:	November 12, 2015

I-D) Initial Abatement/Source Removal

(Soil/Groundwater/Free Product removal during tank closures):

Was soil contamination detected during petroleum system





closure? If yes, please briefly describe extent of petroleum impacts and method(s) used to identify soil contamination.

An Initial Remedial Action Report (IRAR) for the subject property was issued by Omega Environmental Services on May 4, 1994. Omega performed forty-four (44) hand auger borings to determine the extent of excessively contaminated soil at the subject site. Excessively contaminated soil was encountered within the former tank area, the pump island and the UST piping areas.

 Site map (Figure ______) illustrating soil sampling locations is included in Appendix

 Tabular summary of soil sampling results (Table ______) is included in Appendix

Was contaminated soil removed? If yes, please describe the horizontal and vertical extents of the soil removal and indicate where contaminated soil might still exist.



As a result of the contamination, approximately 279 tons of excessively contaminated soil within the area east of the building were excavated and thermally treated on-site. The treated soil was then backfilled into the excavation area. Additionally, Omega removed three (3) 4,000 gallon underground storage tanks and one (1) 2,000-gallon underground storage tank, and excavated approximately 124 tons of excessively contaminated soil within the tank areas. The excavated soil was removed from the site. The tank area was then backfilled with clean fill.

Approximate depth to	water	at time of e	excav	vation (if known)	6.5	feet bls
Approximate amount removed	402	tons	x	yds ³	Date:	1/94 and 3/94
Disposal method:			The	rmal Treatment		

TEMPLATE SIT	E ASSESSMENT REPORT Amoco #89	
Facility ID #:	06/8516885	
Date:	November 12, 2015	

I-D) Initial Abatement/Source Removal (continued)

Was groundwater contamination detected during petroleum system closure? If yes, please indicate whether wells w installed (including their construction details if possible) and indicate the ma levels for petroleum contaminants of concern that were detected. No wells were installed during tank closure activities.	YES	NO	N/A X
Site map (Figure) illustrating groundwater sampling locations	is included in App	endix	
Was contaminated water removed? If yes, please identify remains location(s) and describe method of removal.	yES	NO	N/A
Approximate volume removed: gallons I	Date(s):		

Disposal method:

FEMPLATE SITE ASSESSMENT REPORT		
Site Name:	Amoco #89	
Facility ID #:	06/8516885	
Date:	November 12, 2015	
-		

I-D) Initial Abatement/Source Removal (continued)

Was free product detected during petroleum system closure? If yes, please describe location(s) where product was observed and thickness observed.	YES	NO	N/A
Site map (Figure) illustrating locations where free product was observed and the summary of product thickness (Table) is included	erved is includ	ed in Appendix	x
Was free product removed? If yes, please identify removal location(s and describe method of removal.	YES	NO	N/A

Volume removed:

Disposal method:

gallons

Date(s):

TEMPLATE SITE ASSESSMENT REPORT		
Site Name:	Amoco #89	
Facility ID #:	06/8516885	
Date:	November 12, 2015	

SECTION II - Background Site Assessment Information

YES

YES

NO

Х

NO

Х

Unknown

Unknown

II-A) <u>Risk & Receptor Evaluation</u>

Are large (>100,000 gallons per day) public supply potable wells located within 1/2 mile? If yes, please indicate distance(s) and direction(s) from site, if they are located downgradient and if the well(s) are screened deeper than contamination. If unknown, please explain.

 Potable well survey map (Figure ______) is included in Appendix _______) is included in Appendix _______) is included in Appendix ________)

Are water wells, including irrigation, industrial and all potable wells (<100,000 gallons per day), located

within 1/4 mile? If yes, please identify the type(s) of wells, their distances and directions from the site, if they are located downgradient and if the well(s) are screened deeper than the contamination. If unknown, please explain.

Water well survey map (Figure
Water well construction summary (Table) is included in Appendix) is included in Appendix) is included in Appendix

TEMPLATE SITE ASSESSMENT REPORT	
Site Name:	Amoco #89
Facility ID #:	06/8516885
Date:	November 12, 2015

II-A) Risk & Receptor Evaluation (continued)

Was an area use survey performed? If yes, please identify all water wells within the survey area (as identified in the database searches and walk through



survey), all surface waters, any basements or other subsurface structures and any other receptors which might be impacted. Please indicate predominant property use in area and if there are any potential off-site contamination sources located within at least a one block radius of the contaminant plume.

Area use survey map (Figure) is inclu Are there any potable wells that have been impacted_by contamination? If yes, please describe what was done to provide users of the contaminated potable well(s) an alternative drinking water supply.	YES	NO NO X vase explain.	Unknown

TEMPLATE SITE ASSESSMENT REPORT		
Facility ID #:	Amoco #89 06/8516885	
Date:	November 12, 2015	

II-A) Risk & Receptor Evaluation (continued)



TEMPLATE SITE ASSESSMENT REPORT

Site Name:	Amoco #89
Facility ID #:	06/8516885
Date:	November 12, 2015

II-B) Previous Site Assessment

Information not described in Section I ("release information" or "initial abatement/source removal")

Was site assessment work performed? If yes, please indicate who performed it (with reason performed) and dates performed (see table below)



List of all reports where site assessment information was originally submitted to the FDEP (oldest to most recent):

Date of report	<u>Title of report</u>	Company that prepared report
5/4/94	Initial Remedial Action Report	Omega Environmental Services
8/11/95	Contamination Assessment Report	Omega Environmental Services
8/27/01	Supplemental Site Assessment Report	BBL Environmental Services
3/20/03	General / SA Report	BBL Environmental Services
7/31/06	TSAR Report	BBL Environmental Services

Was soil assessment performed? If yes, please briefly describe work performed and discuss results. <u>A description of the sampling results can be omitted</u> if the data are included with current tabular summaries and soil plume maps (if applicable). NO

YES

An Initial Remedial Action Report (IRAR) for the subject property was issued by Omega Environmental Services on May 4, 1994. Omega performed forty-four (44) hand auger borings to determine the extent of excessively contaminated soil at the subject site. Excessively contaminated soil was encountered within the former tank area, the pump island and the UST piping areas.

A Contamination Assessment Report (CAR) was issued by Omega on August 11, 1995. The work included and twenty-five (25) hand auger borings. The OVA analysis on the soil samples of the twenty five hand auger borings indicated that excessively contaminated soil was present in a small area to the east of the main building.

A Template Site Assessment Report (TSAR) for the subject property was issued by BBL on July 31, 2006. The activities performed included fifteen (15) soil borings to an approximate depth of 7 feet. Soil samples were collected from the soil borings and new wells and screened for Hydrocarbons using and OVA meter. Soil samples from SB-7, SB-8 and SB-9 were selected for laboratory analysis for BTEX/MTBE, PAH and TPH. Laboratory analysis indicated that the soil samples did not exceed Residential Direct Exposure Target Levels, however, Xylene and Naphthalene concentrations in SB-8 at 4 feet exceeded Leachability Based on Groundwater Criteria target levels.

Results included in current soil OVA screening and soil analytical summary tables.

 Site map (Figure ______) illustrating sampling locations is included in Appendix

 Tabular summary of soil sampling results (Table ______) is included in Appendix

II-B) Previous Site Assessment (continued)

Have monitoring wells been installed? If yes, briefly identify where the wells were installed and describe their construction. Please indicate if the wells are still on-site. The well descriptions and can be omitted if the information is included in a current tabular summaries. YES NO
Omega installed fourteen (14) shallow monitoring wells and one (1) deep monitoring well between April 12, 1994 and March 30, 1995.
BBLES supervised the installation of MW-15, MW-16, MW-17 and DMW-2 on December 18 and 19, 2002.
During our site reconnaissance, we observed nine (9) monitoring wells on-site, two monitoring wells to the west of the site, and two (2) monitoring wells to the east of the site.
Site map (Figure) illustrating well locations is included in Appendix Tabular summary of well construction details (Table) is included in Appendix
YES NO Has direct push (geoprobe) groundwater grab-sampling been
included in current sue maps and labular summaries
Site map (Figure) illustrating the groundwater sampling results is included in Appendix

 Tabular summary of groundwater sampling results (Table ______) is included in Appendix _______)

TEMPLATE SITE ASSESSMENT REPORT		
Site Name:	Amoco #89	
Facility ID #:	06/8516885	-
Date:	November 12, 2015	_

II-B) Previous Site Assessment (continued)

	YES	NO
Was groundwater sampling performed? If yes, briefly describe what sampling	X	
was performed and summarize results. <u>A description of the sampling results can be omitted</u>		
if the data are included with the current tabular summaries and groundwater plume maps (ij	<u>° applicable).</u>	
Previous groundwater sampling results are summarized in Table 5		
Results included in current groundwater analytical summary table.		
Site map (Figure) illustrating sampling locations is included in Appendix Tabular summary of groundwater results (Table) is included in Appendix		
	YES	NO
Has free product been observed in wells or excavations (not		X
including tank and/or system closures)? If yes, please describe. <u>A description</u>		
of the thickness measured can be omitted if the previous data are included with the current to and illustrated on current free product plume maps (if applicable).	<u>ibular summa</u>	<u>ries</u>
Site map (Figure) illustrating locations where free product was observed is included	in Appendix	
Tabular summary of free product thickness (Table) is included in Appendix	х	

TEMPLATE SITE ASSESSMENT REPORTSite Name:Amoco #89		
Facility ID #:	06/8516885	
Date:	November 12, 2015	

II-B) Previous Site Assessment (continued)

	YES	NO	
Has the previous site assessment been approved by the	V		
EDED (was a CAP on SAP approval latter issued?)	Λ		
FDEF (was a CAR of SAR approval leller issued?)			
Date site assessment (or contamination assessment) was approved:	3/31/03 and	9/20/06	
II-C) Previous Remediation			
		YES	NO
Has a Remedial Action Plan been prepared? If yes please h	riefly		V
describe the remedial strategy. The description of the remedial strategy ear	he		A
anitted if the PAP was implemented (this item will be addressed in the active re	<u>ve</u> modiation sa	tion that fall	
omitied ij the KAF was implemented (ints tiem witt be daaressed in the active re	mediation sec	<u>non mai jou</u>	<u>uws).</u>
Date of RAP: Prepared by:			
Remedial Action Plan approved by FDEP. Date of RAP approv	val order		
		YES	NO
Was soil excavation (not associated with a system closure	·) [V
was soli excavation (noi associated with a system closure	,		Δ
performed? If yes, please briefly describe work performed and discus	s results.		
The description of the source removal can be omitted if already discussed in the	<u>initial abatem</u>	<u>ent section.</u>	
Approximate depth to water at time of excavation (if know	wn)	feet	
Approximate depth to water at time of excavation (if known site map (Figure) illustrating sampling locations and extent of excavation (if known site map (Figure))	wn)ation(s) is incl	<i>feet</i> uded in Appe	ndix

TEMPLATE SITE ASSESSMENT REPORT			
Site Name:	Amoco #89		
Facility ID #:	06/8516885		
Date:	November 12, 2015		

II-C) Previous Remediation (continued)

Has active remediation been performed? If yes, please indicate dates performed (each applicable technology), evaluate previous system effectiveness and indicate if any previous equipment is still available for cleanup.



FEMPLATE SITE ASSESSMENT REPORT				
Site Name:	Amoco #89			
Facility ID #:	06/8516885			
Date:	November 12, 2015			

SECTION III - Recent Site Assessment Activities

III-A) Soil Investigation

[soil sampling]

Was soil (vadose zone and smear zone) investigated? If yes, please provide a brief discussion of soil sampling methodology, including the method(s) used to collect the laboratory samples. If no, please explain.



The purpose of the soil investigation was to determine the presence of excessively contaminated and contaminated soil in the unsaturated zone on-site and was conducted on August 4, 2015. The soil investigation included the installation of 12 soil borings to a depth of 8 feet at the locations shown in Figure 4.

Soil samples were obtained from a hand auger for analysis with an Organic Vapor Analyzer-Photo Ionization Detector (OVA-PID). The 12 soil borings, identified as SB-1 through SB-12, were screened for petroleum vapors with the OVA-FID at 1-ft intervals from 0 to 4 feet; and in 2 ft intervals to 8 feet. The OVA results are included in Table 1 and are shown in Figure 4. The instrument calibration log and the soil boring logs for the twelve soil boring are included in Appendix B. All OVA-PID measurements were obtained in accordance with procedures outlined in Chapter 62-780.200, FAC.

The OVA results were reviewed and 3 soil samples identified as SS-1 through SS-3 were obtained for laboratory analyses for EPA Methods 8260B (volatile organics), 8270 (PAHs), and Total Petroleum Hydrocarbons (TPH) using the FL PRO method. Three samples, SS-1 through SS-3, were collected from the unsaturated zone. The soil sampling for SS-1 through SS-3 was conducted in accordance with FDEP SOP FS3000.

 Date of last soil screening event (OVA data) with or without laboratory sampling:
 2/19/2015

 Site map (Figure 4) illustrating sampling locations is included in Appendix A
 A

 Tabular summary of soil screening results (Table 1) is included in Appendix B
 B

 Tabular summary of laboratory soil sampling results (Table 2) is included in Appendix B
 B

 Soil sampling logs (for laboratory samples) are included in Appendix A
 A

Soil samples (previous sampling events included) have been collected and analyzed for:

Required for all suspected GAG & KAG contaminated sites.

Χ	BTEX/MTBE (low//high)	Χ	PAHs	Χ	TRPHs
	Required for all sites wh	ere Us	sed Oil contamination is su	ispec	ted.
	Priority Pollutant Volatile		As, Cd, Cr, Pb		TRPHs
	Organics & Extractable Organics				

TEMPLATE SITE ASSESSMENT REPORTSite Name:Amoco #89		
Facility ID #:	06/8516885	
Date:	November 12, 2015	

III-A) Soil Investigation (continued)

	YES	NO	N/A	
Was soil Investigative Derived Waste (IDW) generated? If yes, please describe method used for identifying soil needing disposal:		Χ		
ij yes, pieuse uescribe meinoù useu jor identijying sou neeung uisposai.				
Volume of contaminated soil disposed of:	drums	cu. yds.		
Isoil results]				
	YES	NO	N/A	
Was soil contamination above applicable Cleanup Target		X		
Levels identified above the water table? If yes, identify where		~ ~		
concentrations above CTLs were detected, depths encountered and corresponding	g OVA readin	gs. If no, plea	se	
OVA screening data and/or reliability of laboratory results). If "N/A", please exp	e, please disci lain.	uss significanc	e of	
The soil laboratory analytical results are summarized in Table 2 , and the	results for c	ertain parame	eters for	
SS-1 through SS-3 are shown in Figure 5. For SS-1 through SS-3, each applicable constituent was				
evaluated with respect to applicable SCTLs specified in Chapter 62-777, FAC. As a result, no SCTLs for residential use and/or leachability for any parameters were exceeded in SS-1 and SS-2 for EPA Method				
8260B (VOAs), EPA Method 8270D (PAHs), and TRPH parameters.	55 1 und 51	<i>2</i> 101 E 171	uictiidu	
	100700			
For SS-3 (SB-5 (a) 2'), no SC1Ls were exceeded for any EPA EPA Method 82/0D (PAHs) except that a level of 0.16 milliorams per kilogram (mg/kg) was determined for the combination of benzo(a) pyrene				
benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a)anthracene and				
indeno(1,23-cd)pyrene, which is slightly above the residential SCTL of	0.1 mg/kg,	but does not	exceed	
the industrial value for direct exposure. The $Benzo(a)Pyrene conversionAppendix C$	on table for	SS-3 is inclu	uded in	
Appendix C.				
Approximate volume of vadose zone soil contamination:	cu. yds.			
Site map (Figure) illustrating extent of soil contamination is inc Soil concentration summary (Table) is included in	luded in App	endix		
Soil sampling logs (for laboratory samples) are included	d in Appendi	x B		

TEMPLATE SITE ASSESSMENT REPORT			
Site Name:	Amoco #89		
Facility ID #:	06/8516885		
Date:	November 12, 2015		

III-A) Soil Investigation (continued)

	YES	Ν	10		N/A
Was vadose zone soil contamination delineated? If no.					V
please describe where additional borings should be located (indicating					Δ
proposed depths of investigations). If "N/A", please explain.	L			L	
As a result, no SCTLs for residential use and/or leachability for any pa and SS-2 for EPA Method 8260B (VOAs), EPA Method 8270D (PAHs),	rameter and TF	rs were e RPH para	xcee mete	ded in rs.	SS-1,
For SS-3 (SB-5 $@$ 2'), no SCTLs were exceeded for any EPA EPA Method 8270D (PAHs) except that a level of 0.16 milligrams per kilogram (mg/kg) was determined for the combination of benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a)anthracene and indeno(1,23-cd)pyrene, which is slightly above the residential SCTL of 0.1 mg/kg, but does not exceed the industrial value for direct exposure. The Benzo(a)Pyrene conversion table for SS-3 is included in Appendix C.			that a yrene, e and xceed led in		
Based on the results of the soil investigation, no excessively contaminate encountered.	d soil a	bove SC	ΓL w	vere	
Site map (Figure4) illustrating proposed sampling locations is inclu-	uded in	Appendix		А	
	YES]	NO		N/A
<i>Has a smear zone been identified?</i> Definition: The "smear zone" is the soil contamination located within the zone of water table fluctuation (it	Χ				
has been described as a "secondary source" of contamination). If yes, please disc contaminant mass distribution in the smear zone. If no, please describe what add borings, well data, etc.). If "N/A", please explain.	cuss the ditional	horizontal information	l and on is i	vertical needed	(soil
Based on the results of the soil investigation, the unsaturated zone is t	the inte	rval fron	n 0 t	o 6 fee	et, the
smear zone is from 6 to 8 feet, and the saturated zone is below 8 feet.					
Site map (Figure 4) illustrating proposed sampling locations is incl	uded in	Appendix		A	

TEMDI ATE SI	TE ACCECCMENT DEDODT			
Site Name:	Amoco #89			
Facility ID #:	06/8516885	-		
Date:	November 12, 2015			
III B) Cro	undwatar Invastigation			
[monitoring we	lls/hollow stem auger]			
			YES	NO
Were mon which wells we	itoring wells installed (or all error of the second s	bandoned)? If yes, briefly ider heir construction. <u>The well location</u>	ıtify <u>IS</u>	Χ
and construct	ion details can be omitted if the inform	nation is included in current site m	aps and tabular	<u>summaries.</u>
Site map (F	Figure 5) illustrating the w Cabular summary of well construction d Monitoring well completion reports are t push (geoprobe) groundway 12 12 13 14	vell locations is included in Append etails (Table <u>3</u>) is included included in Appendix <i>ater grab-sampling</i>	ix <u>A</u> ed in Appendix YES	A NO X
performed were collected <u>included in cu</u>	?? If yes, briefly identify the locations of the sample location of the sample location of the sample location of the sample location of the sample sample in the sample sample is the sample	and depths where the samples s and results can be omitted if the s s	information is	
Site map (H	Figure) illustrating the g	roundwater sampling results is inclu	uded in Appendix	x
Tabul	ar summary of groundwater sampling re	esults (Table) is include	ed in Appendix	

TEMPLATE SITE	E ASSESSMENT REPORT
Site Name:	Amoco #89

Site Name: Facility ID #:

Date:

November 12, 2015

III-B) Groundwater Investigation (continued)

06/8516885

[groundwater sampling]

Was groundwater sampling performed? If yes, please provide a brief discussion of groundwater purging and sampling methodology and identify the wells that were sampled. If no please explain A description of the sampling results can be



that were sampled. If no, please explain. <u>A description of the sampling results can be omitted if the information</u> is illustrated in current contaminant plume maps and tabular summaries

To determine the horizontal extent of petroleum constituents above GCTLs in the upper portion of the surficial aquifer, six permanent shallow monitoring wells, MW-1, MW-2, MW-4, MW-5, MW-16 and MW-17 were sampled on June 12, 2015 by AEI in accordance with FDEP SOP FS2200 for EPA Method 8260 (VOAs), EPA Method 8270D (PAHs) and TPH. In addition, MW-1 and MW-2 were also sampled for nitrate, sulfate and orthophosphate and MW-2 was sampled for EDB and total lead. The purge water generated during sampling was poured back into the monitoring wells after the sampling activities. No free product was found to be present in the sampled monitoring wells.

EPA Method 8260 (VOAs) Parameters: For EPA Method 8260 (VOAs) parameters, no parameters were detected applicable GCTLs, except Benzene in MW-16 and Ethyl-Benzene and Total Xylenes in MW-17, as shown in Figure 8.

EPA Method 8270D (PAHs) Parameters: No EPA Method 8270D (PAHs) parameters were detected above applicable GCTLs, except Naphthalene at 37 ug/L in MW-17, as shown in Figure 9.

TPH: TPH was not detected above the GCTLs

EDB: EDB was not detected in MW-2 above the laboratory detection limit of 0.004 ug/L.

If groundwater sampling not performed, indicate date of last sampling event (if applicable): Indicate wells sampled on that date (if applicable):

 Site map (Figure 8-10) illustrating the groundwater sampling results is included in Appendix
 A

 Tabular summary of groundwater sampling results (Table 4-5) is included in Appendix
 E

 Groundwater field sampling logs are included in Appendix
 D

Groundwater samples (previous sampling events included) have been collected and analyzed for:

Required for all suspected GAG/KAG sites.



TEMPLATE SIT	E ASSESSMENT REPORT				
Facility ID #:	06/8516885				
Date:	November 12, 2015				
III-B) Grou	undwater Investigation (co	ontinued)	YES	NO	N/A
Was groun disposal on-site	dwater IDW generated? If ye e was not possible.	es, please explain why		Χ	
Volume of	contaminated groundwater dispose	ed of:	drums		gallons
[groundwater res	sults]		VEC		
Was groun applicable where highest c	dwater contamination ident Cleanup Target Levels? If y concentrations detected with depths end	t ified above the es, indicate locations countered. If "N/A", plea	X See explain.		
EPA Method parameters w Total Xylene	1 8260 (VOAs) Parameters: For vere detected applicable GCTLs, es in MW-17, as shown in Figure	EPA Method 8260 (except Benzene in M e 8.	VOAs) paran IW-16 and E	neters, r thyl-Be	no Inzene and
EPA Method detected abov 9.	l 8270D (PAHs) Parameters: No ve applicable GCTLs, except Na	EPA Method 8270I phthalene at 37 ug/L	D (PAHs) par in MW-17, a	ameters as show	s were n in Figure
TPH: TPH v	was not detected above the GCTI	Ls			
EDB: EDB	was not detected in MW-2 above	e the laboratory detec	tion limit of	0.004 u	g/L.
Natural Atter	nuation default concentrations w	ere not exceeded.			

 Approximate volume of contaminated groundwater:
 gallons

 Plume maps [Figure(s)
 N/A
] illustrating extent of groundwater contamination

 is/are included in Appendix
 N/A

III-B) Groundwater Investigation (continued)

Has horizontal delineation been completed in the surficial aquifer? If no, please describe where additional sampling



is required (indicating wells and needed analyses) and/or additional monitoring wells should be installed (indicating proposed screened intervals for each). If "N/A", please explain.

TEMPLATE SI Site Name:	TE ASSESSMENT REPORT Amoco #89	
Facility ID #:	06/8516885	_
Date:	November 12, 2015	_
The horizon defined. Th	tal extent of the dissolved hydro ese concentrations, however, do	ocarbon plume in the shallow zone has generally been o not exceed NADCs.
Site map (F	igure) illustrating propos	ed monitoring well locations is included in Appendix
Has vertic area? If no, (indicating nea proposed scree Sampling of	eal delineation been comple please describe where additional san eded analyses) and/or identify location ened intervals, single or double cased f the deep monitoring wells was	YES NO N/A Impling is required Implication Implication Implication Impli

 Site map (Figure ______) illustrating proposed vertical extent well locations is included in Appendix ______

TEMPLATE SITE ASSESSMENT REPORT				
Amoco #89				
06/8516885				
November 12, 2015				

III-B) Groundwater Investigation (continued)

<i>Is the lower aquifer(s) contaminated?</i> If yes, please describe location and estimated depth of contamination. If unknown, please explain.	YES	NO	Unknown
As discussed above, Sampling of the deep monitoring wells was not c assessment	onducte	d as a par	t of this
Cross-section (Figure) illustrating vertical extent of contamination is	included i YE:	n Appendix S	NO
were natural attenuation parameter data collected? If yes, please specify which parameters were collected (and where collected) and provide interpretation of results. The NAM parameters were partially collected. Nitrate, Orthophospha collected in MW-1 and MW-2. Sulfate was the only NAM parameter	te and S	ulfate we	re
Site map (Figure) illustrating natural attenuation parameter data is	included	in Appendi	x

TEMPLATE SI	TE ASSESSMENT REPORT				
Facility ID #	Amoco #89 06/8516885				
Date:	November 12, 2015				
III-B) Gro [impacted recept	undwater Investigation (continued) otors]				
Have any If yes, please i wells/surface	supply wells or surface waters been impac indicate concentration(s) of water sample(s) taken and the water body/bodies impacted. If unknown, please explain.	rted?	YES	NO	Unkno
			YES	NO	Unkno
Is surface please indicat	water and/or sediment sampling required? e where samples should be collected, and the proposed anal	? If yes, lyses.		Χ	
[Note: surface sampling resu	e water sampling results should be summarized with the grou Its should be summarized with the soil analytical results.] Ij	undwater f unknowr	analytical 1 1, please ex	results and plain.	sediment

YES Are there any potable wells that need to be sampled? If yes, please indicate wells to be sampled, and the proposed analyses. If unknown, please explain.

NO	Unknown
Χ	

Unknown

Unknown

Site map (Figure ______) illustrating potable well locations is included in Appendix

TEMPLATE SITE ASSESSMENT REPORT				
Site Name:	Amoco #89			
Facility ID #:	06/8516885			
Date:	November 12, 2015			
-				

III-C) Free Product Investigation

	YES	NO
Is free product present? If yes, please indicate where product has been observed and its thickness, describe the product (color, odor, etc.) and estimate the		Χ
type and age of the product.		

Site map (Figure) illustrating free product thickness at well locations is included in Appendix Tabular summary of free product thickness (Table) is included in Appendix
YES NO N/A
Has the extent of free product been delineated? If no, please describe where additional wells or piezometers should be located.
Site map (Figure) illustrating locations of proposed piezometers or wells is included in Appendix
YES NO N/A
Is free product recovery ongoing? If yes, please indicate the method and frequency of removal and summarize recovery efforts to date.
Tabular summary of product recovery amounts (Table) is included in Appendix)
YES NO N/A
If free product recovery is not ongoing, are free product X
recovery efforts recommended? If yes, please indicate the proposed
method and frequency of removal. If no, please explain why product removal is not recommended.
Site map (Figure) illustrating locations of proposed additional piezometers and/or wells for free

product recovery is included in Appendix

Site Name:	Amoco #89		
Facility ID #:	06/8516885		
Date:	November 12, 2015		

III-D) Comments

Any issues or concerns not addressed in previous questions which might help better describe the degree and extent of the contamination at this site.

TEMPLATE SITE ASSESSMENT REPORTSite Name:Amoco #89				
Facility ID #:	06/8516885			
Date:	November 12, 2015			

SECTION IV - Impacted Media

IV-A) Lithologic Summary

The impacted aquifer(s) can be best characterized by the following description (predominantly):



Please describe a typical soil column and all defined aquifers (perched/upper/lower). This should include a brief description of the site lithology (using the Unified Soil Classification System), and all other geologic and/or hydrogeologic characteristics of the area which might influence migration or transport of the contamination.

The site lift clayey san feet.	hology consists of fine sands to appro d to 16 feet, interbedded fine sand an	oximately 8 feet. Previous information indicates d clay from 16 to 32 feet and soft limestone at 32	
	Lithologic cross-section (Figure) is included in Appendix	

Is the lithologic information obtained to date sufficient to

characterize the impacted media? If no, please explain [indicating area(s) where additional lithologic data are needed]. <u>A map illustrating where the additional borings/wells need to be located can be omitted if those locations have been identified in the soil and/or groundwater sections.</u>

Site map illustrating proposed lithologic boring locations (Figure

) is included in Appendix

YES

X

NO

TEMPLATE SI Site Name:	TE ASSESSMENT REPORT Amoco #89		
Facility ID #:	06/8516885		
Date:	November 12, 2015		
IV-B) <u>Hyd</u>	rologic Summary		
			YES NO
Have all the If no, please d	he monitoring well tops-of-c escribe why this information has not be of have to be performed by a Profession	casings been surveyed? en obtained. [Note, the TOC al Land Surveyor However, if the	X
are installed p	prior to the survey, then the TOCs should	d be included in the Professional	Land Survey.]
Was a prod date of survey performed it. [Note: the site	fessional land survey perfor , whether it was saved on disk (indication Also indicate which monitoring wells (i to map must be based on the professional	med ? If yes, please indicate ng type of program), and who f any) were included in the surve l land survey.]	YES NO X
	Is original signed a	nd sealed professional land surve	v included?
Is copy of el	ectronic version of land survey (labeled	with ID #, site name & report dat	yes no te) included?
Have dept in the upp average depth To determine MW-1 throu was measure foot in each of were then co groundwater estimated to	<i>h to groundwater and groundwater and groundwater zone aquifer been determ</i> <i>to water and fluctuation range (low/hig</i> e a direction of groundwater flow in gh MW-6 were surveyed and refere d in Monitoring Wells on June 12, 2 of the monitoring wells with a water nverted to relative elevations. All g elevation map for the measurement be in the northwestern direction.	<i>edwater flow direction</i> <i>ained? If yes, please indicate</i> <i>(h stand) in all impacted areas of</i> the area of investigation, the enced an arbitrary benchmark. 2015, from the top-of-casing to r level indicator. Groundwater groundwater elevations are sum s is included as Figure 7. The	YES NO X
Site map Tabular sı	o(s) [Figure(s) <u>6</u>] illust of groundwater flow direction ummary of all groundwater elevation da	rating upper zone water table elevon(s) is/are included in Appendix ta (Table 3) is included	AE

TEMPLATE SITE ASSESSMENT REPORT Site Name: Amoco #89				
Facility ID #:	06/8516885			
Date:	November 12, 2015			

IV-B) Hydrologic Summary (continued)

	YES	NO
<i>Have depth to groundwater and groundwater flow direction(s)</i> <i>in lower and/or intermediate aquifer(s) been determined?</i>		Χ
If yes, please indicate average depth to water and fluctuation range in vertical extent wells (low/high stand). If no, please explain.	5	
Insufficient data		
Site map [Figure(s)] illustrating lower/intermediate zone water table elevations a of groundwater flow direction(s) is/are included in Appendix	and interpretati	on(s)
Are perched aquifer conditions suspected? If yes, please indicate estimated depth and thickness of perched zone and whether perched zone extends across entire site	YES	X
Site map (Figure) illustrating estimated lateral extent of perched zone (when it does site), water level elevations and interpretation(s) of groundwater flow direction(s) is/are incl	s not extend act uded in Appene	ross entire dix

Is the site tidally influenced? If yes, please indicate tidal fluctuation
range and whether groundwater flow direction might change during tidal cycle.
If unknown, please indicate whether this issue is important at this site (outlining of





data collection plan if needed).

Site map(s) [Figure(s)

] illustrating changes in flow direction is/are included in Appendix

Amoco #89		
06/8516885		
November 12, 2015		

IV-B) Hydrologic Summary (continued)

Is groundwater flow in the impacted aquifers being

influenced by pumping from nearby water supply wells?



If yes, please explain how this was determined and indicate which water well(s) are influencing groundwater flow. If unknown, please indicate whether this issue is important at this site (outlining data collection plan if needed).



In the CAR dated August 11, 1995, Omega reported the results of slug tests on MW-1, MW-3 and DMW-1. They reported hydraulic conductivity values for these wells were 0.069 ft/day, 0.5468 ft/day and 3.610 ft/day, respectively. The transmissivity was calculated as 0.032ft2/day

Aquifer test data and calculations included in Appendix

TEMPLATE SITE ASSESSMENT REPORT					
Site Name:	Amoco #89				
Facility ID #:	06/8516885				
Date:	November 12, 2015				

SECTION V - Post Assessment Summary & Recommendations Filled out AFTER site assessment has been completed

V-A) Site Assessment Summary

SOIL INVESTIGATION DATA						
Is there vadose zone soil contamination? Yes No X Soil Screening Results Were SPLP or TCLP extractions & analyses performed? Yes No X						
FID X PID Other Highest OVA concentration (ppm) 1,645					1,645	
Sample #: SB-4	Depth (ft): 8.0	Date S	Sampled	8/4/2015	_	
Above <u>SCTLs</u> <u>Contaminants of Concern</u>	Conc. (mg/kg) or if SPLP (ug/l)	Sample #	Depth (ft)	<u>Date</u> Sampled	<u>Leachability</u> <u>SCTL</u> (mg/kg)	<u>Exposure</u> <u>SCTL</u> (mg/kg)
Benzene	0.0004U	SS-1	4	8/4/15	0.007	1.2
Ethylbenzene	0.0006U	SS-1	4	8/4/15	0.6	1,500
Toluene	0.0005U	SS-1	4	8/4/15	0.5	7,500
Total Xylenes	0.0010U	SS-1	4	8/4/15	0.2	130
MTBE	0.0003U	SS-1	4	8/4/15	0.09	4,400
TRPH	44	SS-1	4	8/4/15	340	460
Naphthalene	.4000	SS-1	4	8/4/15	1.2	55
Other []					
Other []					

	GROUNDW	ATER INVESTIG	ATION DATA		
Is there ground	water contamination? Yes X No				
Maximum Contaminant Levels (latest sampling data prior to RA implementation):					
Above CTLs	Contaminants of Concern	Conc.(ug/l)	Well #	Date Sampled	GCTL (ug/L)
X	Benzene	8.1	MW-16	6/12/15	1
	Toluene	0.72U	MW-16	6/12/15	30
Χ	Ethylbenzene	51	MW-17	6/12/15	40
Χ	Total Xylenes	23	MW-17	6/12/15	20
	Total VOAs (BTEX)				n/a
	MTBE	0.60U	MW-17	6/12/15	50
	EDB	0.004U	MW-2	6/12/15	0.02
	TRPHs	1.2	MW-1	6/12/15	5000
	Lead (total)	2.50U	MW-2	6/12/15	15
Χ	Naphthalene	37	MW-17	6/12/15	20
	Total Naphthalenes				n/a
	Other PAHs				n/a
	Other [28
	Other [28
Free product	t present? Yes No X W	here?	M	aximum thickness (ft)	
Estimated de	epth of contamination (ft)		Lower aquifer(s) c	ontaminated? Yes	No X
GROUNDWATER ELEVATION DATA					
I	Depth to groundwater in upper zone water-ta	able wells (ft): 7.2	5 to 8.16	Average (ft):	7.54

oundwater in upper zone water-table wells (ft):	7.25	to	8.16	Average (ft):
ndwatan in lower zone vertical extent wells (ft).		to		A wara as (ft).

Depth to groundwater in lower zone vertical extent wells (ft):	to Average (ft):	
Observed maximum range of upper zone fluctuation (ft):	Tidally influenced? Yes No X	
FEMPLATE SITE	ASSESSMENT REPORT	
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Site Name:	Amoco #89	
Facility ID #:	06/8516885	
Date:	November 12, 2015	

V-A) Site Assessment Summary (continued)

Are all the documents submitted to date adequate to meet the site assessment requirements of Rule 62-770.600, Florida Administrative Code (F.A.C.)?

V-B) <u>Recommendations</u>	VEC	NO
Is No Further Action (NFA) without conditions recommended? If yes, please provide reasons NFA is appropriate.	TES	X
Is No Further Action (NFA) with conditions recommended? If yes, please provide reasons conditional NFA is appropriate and describe the conditions [the needed institutional or engineering controls] pursuant to Rule 62-770.6	YES	NO

YES

Х

NO

TEMPLATE SITE ASSESSMENT REPORT				
Site Name:	Amoco #89			
Facility ID #:	06/8516885			
Date:	November 12, 2015			

V-B) Recommendations (continued)

Is Remediation by Natural Attenuation (RNA) recommended

YES NO

for any portion of the groundwater plume? If yes, please provide reasons RNA is appropriate and outline proposed monitoring plan. Is/are the temporary point(s) of compliance [the downgradient well(s)] off-site?

Due to the lack of soil contamination at the subject site and the levels of groundwater contamination, it is our recommendation to continue sampling monitoring wells MW-2, MW-16 and MW-17 until the groundwater contamination levels are below GCTLs

Monite	oring Wells: 3					
Contaminants:	Benzene, Ethylbenzene, Total Xylenes, Naphthalene	Frequency:	Every 6 months	Duration:	3 years	
				YES	1	00

Is Source Removal (soil or free product) recommended? If yes,	
please outline proposed method and extent of source removal (is dewatering	
needed?)	

NO			
	Χ		

Site map (Figure

) illustrating proposed extent of excavation is included in Appendix

TEMPLATE SI' Site Name:	TE ASSESSMENT REPORT Amoco #89		
Facility ID #:	06/8516885		
Date:	November 12, 2015		
V-B) Reco	mmendations (continued)	YES	NO
Is a Limite If yes, please p plan for remea	ed Scope Remedial Action Plan (LSRAP) needed? provide reasons for performing limited remediation and briefly outline liation.		X
Si	te map (Figure) illustrating locations of any proposed recovery we is included in Appendix	ells (if applicabl	e)
If RAP alrea Is a Remea If yes, please p proposed mod	ndy approved for site dial Action Modification Plan (RAMP) needed? provide reasons for continuing approved RA at the site and indicate ifications.	YES	NO

TEMPLATE SITE ASSESSMENT REPORTSite Name:Amoco #89Facility ID #:06/8516885Date:November 12, 2015

V-B) Recommendations (continued)

Is a Remedial Action Plan (RAP) needed? If yes, please provide

reasons for performing in-situ remediation at the site and indicate which remediation technology or combination of technologies is recommended or should be evaluated (with reasons for recommendation).

YES



Is a Pilot Test recommended? If yes, please indicate recommended remedial technology and outline specifics of proposed pilot test. Details include area of site where test is planned, recovery/air sparsing well construction details



YES

area of site where test is planned, recovery/air sparging well construction details, which wells will be used to evaluate test, proposed recovery and/or pumping and/or blowing rates and plan for IDW disposal (if applicable). *The FDEP should be consulted before preparing a pilot test outline.*

Site map (Figure) illustrating pilot test layout is included in Appendix

Site Name:	Amoco #89	
Facility ID #:	06/8516885	
Date:	November 12, 2015	

V-C) Comments

Any issues or concerns not addressed in previous questions which might influence remediation decisions at this site.

TEMPLATE SITE ASSESSMENT REPORT					
Site Name:	Amoco #89				
Facility ID #:	06/8516885				
Date:	November 12, 2015				

<u>SECTION VI</u> - Program Issues (for state funded cleanup sites)

List of all consultant company personnel (not subcontractor employees) that participated in the field work or helped to prepare the report:

<u>Name</u>	Duties	<u>Dates On-Site</u> (if applicable)	
Rob Cornelius	Professional Engineer	6/12/15	thru 8/4/15
Miguel Rodriguez	Field Work	6/12/15	thru 8/4/15
			thru

VI-A) Work Plan and Cost Summary

Briefly summarize initial work plan.

To investigate a discharge of petroleum products reported for the subject site, pursuant to Chapter 62-780, FAC.

The soil investigation included the advancement of 12 hand auger borings, collect soil samples and screen with OVA, and submit 3 samples for laboratory analysis.

The groundwater portion of the investigation included collecting groundwater samples from 6 existing monitoring wells and submit for lab analysis.

Copy of original work order or task assignment is included in appendix

Was any extra work authorized? If yes, please summarize extra work planned for site.

Copies of all authorization forms are included in Appendix

NO

Х

YES

Site Name:	Amoco #89		
Facility ID #:	06/8516885		
Date:	November 12, 2015		
VI-A) Wo	rk Plan and Cost Summary (continued)		
	•	YES	NO
Wasan	planned work not performed? If yes, please describe		V

Are there any changes in cost from original work order or	
task assignment? If yes, please describe the changes and cost adjustments that	
will be required for invoicing.	

The type of soil collection was changed from Split Spoon Sampling to Hand Auger.



VI-B) Next Proposal

Is detailed cost proposal for next scope of work included? If no, please explain why proposal not provided: NO

YES

YES

NO

Х

Proposal included in Appendix n/a

APPENDIX A



FLORIDA DEPARTMENT OF

ENVIRONMENTAL PROTECTION BOB MARTINEZ CENTER 2600 BLAIRSTONE ROAD TALLAHASSEE, FLORIDA 32399-2400 RICK SCOTT GOVERNOR

CARLOS LOPEZ-CANTERA LT. GOVERNOR

HERSCHEL T. VINYARD JR. SECRETARY

October 7, 2015

(Sent via email only to addressee at rcornelius@andreyevengineering.com)

Rob B. Cornelius, P.E. Professional Engineer Andreyev Engineering, Inc. 1170 West Minneola Ave. Clermont, FL 34711

Subject: Deliverable Review Amoco #89 305 S Main Street Wildwood, Sumter County FDEP Facility ID# 60/ 8516885 Discharge Date: December 28, 1988 (EDI) Discharge Score: 30 Purchase Order #AB34B2

Dear Ms. Cornelius:

The Petroleum Restoration Program (PRP) has reviewed the Task 2 deliverable (Interim Report), received October 05, 2015), submitted for this facility. The referenced deliverable is acceptable and demonstrates that the work outlined in Purchase Order #AB34B2 for Task #2 was satisfactorily performed.

Please continue the implementation of the purchase order. Pursuant to Petroleum Restoration Program procedures, the invoice for this deliverable must be received by November 07, 2015. The approved costs for completion of this deliverable/task is \$4,038.00, including retainage, as detailed in the attached rate sheet.

If you have any questions, please contact me at (850) 245-8911 or at the letterhead address, Mail Station 4540.

www.dep.state.fl.us

Rob B. Cornelius, P.E. Andreyev Engineering, Inc. FDEP Facility ID# 60/ 8516885 Page 2 of 2 October 7, 2015

Sincerely,

Elena q. compton

Elena G. Compton, P.E. Professional Engineer II Petroleum Restoration Section 3 Petroleum Restoration Program Elena.Compton@dep.state.fl.us

Reviewed by:

Joseph 7 Jusit

Joseph F. Fugitt Professional Geologist # 1613

Date 10/7/15

Enclosure: 1) signed Invoice Rate Sheet;

cc: Mr. Ronald Gasque, 12729 CR 103, Oxford, FL 34484 File Petroleum Contamination Site Response Action Services SCHEDULE OF PAY ITEMS INVOICE RATE SHEET

DETAIL INVOICE, Page 2 of 4

					Suff.us
AMOCO #89	608516885	Central	E. COMPTON	8502458911	elena.compton@dep.stat
Facility Name:	FDEP Fac.ID #:	Region:	Site Manager Name:	Site Manager Phone:	Site Manager email:

Retainage: 10% Total Extended Price: \$ 27,476.00 Contract #: GC733 CID #: 00431 Contractor Name: Andreyev Engineering, Inc. Owner Cost Share: 0.0%



				PO Rate	Sheet	Previously Invoiced	T	is Invoice	Balance
PAY	DESCRIPTION	UNIT OF MEASURE	TASK UNITS	VENDOR P/	TOTAL EXTENDED	UNITS	UNITS	EXTENDED PRICE	UNITS
-	lask 1								
1-1.	File Review	Per Review	-	EDD.					
1-2.	Site Health & Safety Plan	Par Sita	- -	0000 a	00.000 00.000 00.000			•	0
4	Permit Fees - actual fee only, cost to obtain permit is included in applicable pay items	Reimbursable*	- 12	5 SOUL		- <	0	-	0
		SHETATAL	200		200700 * 3EV 00		-	' \$	500
	ask 2	SUDICIPAL			00'000'I @	00.068 €		59	\$ 500.00
1-5.	Off-Site Property Access Agreement	Par Annament	l.	ADD.	101.00		ľ		
2-2.	Receptor Survey and Exposure Pathway Identification (Excludes report)	Per Sinter	. .	* 400.	0 400.00		-	•	-
2-3.	Professional Land Survey [if FDEP authorizes, submit quote(s) with Change Order]	Reimbursable*	-	* *	00.000 \$			1	-
ਲ ਇ	Mobilization. Light Duty Vehicle (car or 1/2 ton truck) - < 100 miles each way	Per Round Trip	4	\$ 300.0	0 \$ 1,200.00	0	0	- UUU9	- ~
rj c	rieavy Dury/Stakebed I ruck (3/4 ton +) - < 100 miles each way	Per Round Trip	2	\$ 550.(0 \$ 1,100.00	0	0		10
0 1 1	Drift reg modification = 5 100 miles each way	Per Round Trip	2	\$ 600.0	0 \$ 1,200.00	0	0	69	~
		Per Spoon	231	\$ 20.0	0 \$ 4,620.00	0	0	. 69	231
ο Α	HSA OF MK BORING, > 6 to 10 inch diameter, < 50 toot total depth	Per Foot	176	\$ 20.0	0 \$ 3,520.00	0	0	- 69	176
<u>i v</u>	HSA OT MIK BOTING, > 10 to 14 Inch diameter, < 50 toot total depth	Per Foot	29	\$ 23.(0 \$ 667.00	0	0		g
j	Weil Installation - 2 Inch diameter	Per Foot	205	\$ 21.0	0 \$ 4,305.00	0	Ģ		20K
	Surface Casing - 6 inch clameter	Per Foot	29	\$ 25.0	0 \$ 725.00	c			3
<u></u>	Monitoring Well Sampling with Water Level, ≤ 100 foot depth	Per Well	80	\$ 185.0	0 \$ 1480.00	è	» «	4 140.00	8
ģ	Soil/Sediment Sample Collection	Per Sample	4	\$ 95.0	0 \$ 380.00			9 - 1- 1- CUO	7
6	Soil, Used Oll/Unknown Product Group-Table D of Ch. 62-780, F.A.C., except for non-Priority Pollutant Ormanics: Multiple Methodel					,	~	00.002	-
6-6	Soil RTEX + MTRF (FDA R021 or FDA 8260)	Per Sample	-	\$ 412.0	0 \$ 412.00	0	0	\$	÷
5	Soli Ditructic Amartic Lindersoftmer (EDA 0270 - EDA 0240)	Per Sample	m	\$ 45.0	0 \$ 135.00	0	ę	\$ 135.00	0
	Soul Total Remunited Liputocationis (ECK 02/U OF ECK 02/U) Soil Total Remunited Deterlismin Underscription 713, DDA1	Per Sample	m	\$ 70.0	0 \$ 210.00	0	ę	\$ 210.00	0
j y	owi, roan rooverable renorming injurication (re-FRU) Svit Sunthatic Peorintratic December December 5 december - 5-1, francesco	Per Sample	с.	\$ 65.0	0 \$ 195.00	0	ы	\$ 195.00	0
Ś	Works Theory Other Freekhauori Leadaning Frousaure-Extraction Only (EPA1312)	Per Sample	2	\$ 45.0	0 \$ 90:00	0	0	•	2
9-26.	Practice, occurrentioner incounce or outpendate to of this ozerodu, F.A.C., except tor non-Phonty Pollutant Organics (Multiple Methods)	Per Samole	÷	4000	400 00 100 00				
9-27.	Water, BTEX + MTBE (EPA 602, EPA 624, EPA 8021 or EPA 8260)	Per Samole	-	\$ 45.0	0 4 400.00		510		-
9-30.	Water, Polycyclic Aromatic Hydrocarbons, including 1-methylnaphthalene + 2-methylnaphthalene (EPA 610 [HPLC], EPA 625, EPA 8270 or EPA 8310)	Per Samole		200Z \$			0 4	2/0.00	
9-31.	Water, EDB [1,2-dibromoethane or ethylene dibromide] (EPA 504.1 or EPA 8011)	Per Sample		35.0	2 4 20.00		0	4ZU.U0	-
9-36.	Water, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Samole		8 000	15500		- 0	35.00	
941.	Water, Lead, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample		40.0	1000		•	390.00	-
953.	Water, Nitrate [as N] (EPA 300.0 or EPA 353.2)	Per Sample	. ~	\$ 12.0	24 00		- c	\$ 24.000	
9-57.	Water, Orthophosphate [as P] (EPA 300.0, EPA 300.1, EPA 365.1, EPA 365.3, EPA 9056, SM 4500-PE or SM 4500-PF)	Der Comolo					7	¢ 24.00	-
			7	n'ci	1 \$ 30.00	5	5	\$ 30.00	0

Task 2 - Schedule of Pay Items & Other Related Documents - 608516885.xls

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10/5/2015

DETAIL INVOICE, Page 3 of 4

Petroleum Contamination Site Response Action Services SCHEDULE OF PAY ITEMS INVOICE RATE SHEET

				PO Rate Sh	eet	Previously Invoiced	Th	s invoice		Balance
PAY	DESCRIPTION	T OF MEASURE	TASK UNITS	VENDOR PAY	TOTAL EXTENDED PRICE	UNITS	UNITS	EXTENDED	PRICE	UNITS
070	Water, Sulfate (ASTM D516-02, ASTM D516-90, EPA 300.0, EPA 300.1, EPA 375.2, EPA 9038, EPA 9056 or stM 4500-504 C1	Per Sample	2	\$ 12.00	\$ 24.00	0	2	\$	24.00	0
3-00. 12.6	Transmit and Dismisal of Petroleum Impacted Soil (includes drum)	Per Drum	7	\$ 190.00	\$ 1,330.00	0	0	\$	·	7
12 13	Transport and Dismosal of Petroleum Contact Water (Includes drum)	Per Drum	-	\$ 190.00	\$ 190.00	0	0	\$	•	-
10.20	I attachmente support attachme	Per Report	-	\$ 300.00	\$ 300.00	0	+	67	300.00	0
22.1	Water Discolved Iron (45 micron inline filter + EPA 200.7. EPA 6010 or EPA 6020)	Per Sample	2	\$ 20.00	\$ 40.00	0	0	69	•	2
22.00	Water Methane (FPA SOP RSK-175)	Per Sample	2	\$ 100.00	\$ 200.00	0	0	69	+	2
22.2	Sourt TRPH Fractionation by MADEP-EPH/VPH Method or TPHCWG Direct Method	Per Sample	4	\$ 200.00	\$ 200.00	0	0	\$	+	- -
22.5	Water EDC 11.2-dichloroethanel (EPA Method 8021 or 8260)	Per Sample	-	\$ 44.00	\$ 44.00	0	0	\$		1
		SUBTOTAL			\$ 25,076.00	, 9		2	* 00.8cu,t	N10000117
	ask 3							•	ŀ	ŀ
19.3.	General Site Assessment Report	Per Report	-	\$ 700.00	\$ 700.00	0		~	·	-
24_15	P.G. or Qualified P.E. Review, Evaluation and Certification of a General Site Assessment Report	Per Report	-	\$ 350.00	\$ 350.00	0	0	69	- 1	1
		SUBTOTAL			\$ 1,050.00	\$		\$	•	1,050.00
		TOTAL			\$ 27,476.00	\$ 850.00		\$	4,038.00 \$	22,588.00
			ő	vner Cost Share:	•	•		\$	69	·
				DEP Cost Share:	\$ 27,476.00	\$ 850.00		69	4,038.00 \$	22,588.00
				Retainage:	\$ 2,747.60	\$ 85.00		÷	403.80 \$	2,258.80
0	ta Mananer Annivual: Elemina Compton		DEP	Less Retainage:	\$ 24,728.40	\$ 765.00	_	\$	3,634.20 \$	20,329.20

Sile Manager Approval: <u>Elena Compten</u> Print Name Elena compten Signature Oetober 7, 2015

Date of Review Letter

SITE MANAGER MANUAL CORRECTIONS EXPLAINED.

ine Number	Explanation
•	

Task 2 - Schedule of Pay Items & Other Related Documents - 608516885.xls

For Use by FL. DEPT. of ENVIRONMENTAL PROTECTION AGENCY TERM CONTRACTORS when working as an ATC

PERMISSION TO ENTER PROPERTY

- 1. The undersigned real property owner, Mr. Ronald Gasque, ("Undersigned"), hereby give(s) permission to the State of Florida, Department of Environmental Protection ("Department") and it's Agency Term Contractor (contractors), including Andreyev Engineering, Inc. to enter the undersigned's property ("the properly") located at 305 South Main Street, Wildwood, Sumpter County Florida (FDEP Facility ID# 06/8516885).
- 2. This permission is specifically limited to the following activities which may be performed by the Department or contractors: Performing soil borings, sampling of existing groundwater monitoring wells, installation of groundwater monitoring wells, the collection of soil and groundwater samples, and conducting survey activities for the area of investigation.
- 3. The granting of this permission by the Undersigned is not intended, nor should it be construed, as an admission of liability on the part of the undersigned or the Undersigned's successors and assigns for any contamination discovered on the property.
- 4. The Department or contractors may enter the property during normal business ,hours and may also make arrangements to enter the property at other times after agreement from the undersigned.
- 5. The Undersigned shall not be liable for any injury.-damage or loss on the property suffered by the Department, Department employees or contractors not caused by the negligence or intentional acts of the Undersigned's agents or employees.
- 6. The Department acknowledges and accepts ns responsibility under applicable law (Section 76K.28, Florida Statutes) for damages caused by the acts of its employees Ma. on the property.

Signature of each Undersigned (Property Owner)

Print Name

Date

えみわらっ

Print Name

Date 11/1

Accepted by the State of Florida Department of Environmental Protection by the following authorized FIAT Agency Term Contractor:

Signature of Agency Term Contractor 1605 ios acael

Signature of Witness 11-7-14 REMCHA.

Print Name

Date

Prim Name

Date

DEP-SOP-001/01 FT 1000 General Field Testing and Measurement

Form FD 9000-8 Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) Mini-RAE 3000 PID INSTRUMENT # AEI 1014

PARAMETER:

X OTHER OVA GAS

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

STANDARD	SUP	PLIER		TYPE	STANDARI) VALUE	i C	OT #	EXPIRATION		
A	RAE S	lystems	lsobu	tylene Gas	100p	pm	172	23276	(09/2017	
В	<u>``</u> N	I/A	Ze	ero Gas	Орр	m					
С	N	I/A	Fresh A	ir Calibration	Орр	m	1	V/A		N/A	
DATE	TIME	STD (A,B;C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRA (YES; N	ted 10)	TYF (INIT,C	PE ONT)	SAMPLER NITIALS	
9-29.14	0700	A	100	100	0	Y		/\	Π	M	
9.29.14	0704	Ċ	0	D	Ð	У		JN-	Т	m	
9.29.14	1400	A	100	100	0	4			Γ	m	
9.29.14	1404	c	0	0	0	<u> </u>		INT		m	
10:6.14	0700	A	100	100	> 0 Y			MT		m	
10.6.14	07 54	C.	·D	0	0	Ч	Ŷ		Ĩ	m	
10.9.14	0700	A	100	100	D	<u>\</u>		1 AJ	<u>ī</u> .	m	
10.9.14	0704	C	0	0	0	Ϋ́		111	٢	RM.	
11.6.14	9300	A	100	100	Ø	Y		11/7	*`	AM	
11.6.14	0807	Ċ	Ø	9	0	<u> </u>		1 N/7		108A	
12-16-14	1400	A	100	100	0	<u> </u>		INT		ML_	
12-16-14	1404	С	0	· Ø	Ð	<u> </u>		INT		ML	
12.11.14	2710	A	100	100	0	Ý		INT	••	ML_	
12-17.14	0714	C	θ	0	0	Y		INT	۳ ^۰	M.	
2-9-15	0714	A	100	100	0	Y		Int	-	R	
4-14-15	08-10	Ċ	0	0	0	5		IN.	ſ	PC	
6-6-15	1010	A	100	100	0	y	INT			RC	
8-4-15	0700	C	0	0	0	INT			Re_		
										· · · · ·	

									Pag	ge 1 of	1
Boring/Well Number:			Permit	Number:				FDEP Facili	ty Iden	tificati	on Number:
SB-2	2		D i	1 0		N/A		.	608	351688	35
Site Name: Amoco # 89			Boreho	le Start D	ate:	08/04/15	Borehole Start	Time: 1	0:10		AM D PM
			<u>a</u> 1	End D	ate:	08/04/15	End	Time: 1	0:25		AM PM
Environmental Contracto	r: pooring Inc		Geolog	ist's Nam	le:			Environmen	tal Tec Miguol	hniciar Podri	n's Name:
Drilling Company:	leening inc.	Paveme	ent Thicl	cness (inc	hes):	Borehole Dian	neter (inches):	Bo	rehole	Depth	(feet):
Environmental Drilling	g Services		3" co	ncrete			3				8
Drilling Method(s):	Apparer	t Borehol	le DTW (in feet	Me	asured Well DTW	V (in feet after	OVA (list m	odel ar	nd chec	k type):
HA	from se	oil moistu	re conten	it): 7	w	ater recharges in	well):				FID 🗹
Disposition of Drill Cutti	ngs [check m	ethod(s)]:		Drum	Spread	Backfill	Stoc	kpile		Other
(describe if other or mult	iple items are	checkea	ł):								
Borehole Completion (ch	eck one):		Well	Gro	out	Bentonite	e 🔽 Backfi	ill 🗖 -	Other	(descri	be)
(per six inches) Sample Recovery (inches) Sample Depth Interval (feet) Sample Type	Unfiltered OVA SPT Blows	Filtered OVA	Net OVA	Depth (feet)	(inclu	Sample de grain size bas and of	e Description sed on USCS, odd ther remarks)	ors, staining,	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
НА			3.8		3" conc	rete; 3" base; 6	" rock				
				1	Dork gr	ovich brown fin	o oond				
НА			0.3		Dark gr	ayish brown in	e sanu		SP	D	
				2	Light gi	ayish brown fin	e sand				
НА			0.1	3					SP	D	
			0.0		Brown	fine sand			SD		
			0.0	4							
НА			0.0		Brown	to light brown fir	ne sand		SP	м	
				6	Liaht bi	own fine sand					
НА			0.0	8	5				SP	w	
					Termin	ated at 8'					
				<u> </u>							
Sampla Tupa Codasi - DII	Post Hole: II	A - Hond	Augor	SS _ S= ¹	t Snooni	ST - Shalby Ty	hat DD - Direct	Duch CC - C	onia Ca		C - Drill Cuttings

						Page 1 of 1								1
Boring	g/Well N	lumber	:			Permit	Number:				FDEP Facili	ity Iden	tificati	on Number:
		ŝ	SB-1						N/A			608	851688	35
Site N	ame: Ar	noco #	89			Boreho	le Start D	ate:	08/04/15	Borehole Start	Time: 0	9:50	\checkmark	АМ 🗖 РМ
							End D	ate:	08/04/15	End	Гime: 1	0:07	◄	ам 🗖 РМ
Enviro	onmenta	l Contr	actor:			Geolog	ist's Nam	ie:			Environmen	tal Tec	hniciar	n's Name:
Drillir	Andro	eyev E	ngineeri	ng Inc.	Paveme	ent Thic	aness (inc	hes).	Borehole Dian	neter (inches).	Bo	Migue	Rodri Depth	guez
Env	ironme	ntal Dr	illing Ser	vices	1 avenik	3" co	ncrete	1103).	Dorenoie Dian	3	DO		Deptil	8
Drillir	ng Metho	od(s):		Apparer	nt Boreho	le DTW (in feet	Me	asured Well DTW	/ (in feet after	OVA (list m	odel ar	nd chec	k type):
	ŀ	ΗA		from so	oil moistu	ire conter	nt): 7	w	ater recharges in	well):				FID 🔽
Dispo	sition of	Drill C	Cuttings [check m	ethod(s)]:		Drum	Spread	Backfill	🗖 Stoc	kpile		Other
(descr	ibe if oti	her or i	nultiple i	tems are	e checked	d):								
Boreh	ole Com	pletior	n (check o	one):		Well Grout Bentonite Backfill							(descri	be)
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	(inclu	Sample de grain size bas and of	e Description sed on USCS, odo ther remarks)	rs, staining,	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
НА						2.4		3" conc	rete; 3" base; 6	" rock				
							1	Dark or	avish brown fin	e sand				
HA						0.3	2	Dark gi	ayısıı biowii illi	e sanu		SP	D	
							<u> </u>	Light gi	ayish brown fin	e sand				
HA						0.1	3					SP	D	
цл						0.0		Brown	fine sand			SD		
						0.0	4					0		
НА						0.0		Brown	to light brown fir	he sand		SP	м	
							6	l iaht bi	own fine sand					
HA						0.0	8	g				SP	w	
							0	Termin	ated at 8'					
							_							
							<u> </u>							

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

												Pag	ge 1 of	1
Boring	g/Well N	lumber	:			Permit	Number:				FDEP Facili	ty Iden	tificati	on Number:
<i>a</i>		5	SB-3						N/A			608	351688	35
Site N	ame: Ai	noco #	89			Boreho	le Start D	ate:	08/04/15	Borehole Start	Time: 1	0:30		AM 🗌 PM
							End D	ate:	08/04/15	End	Time: 1	0:51	~	ам 🗖 РМ
Enviro	onmenta	l Contr	actor:			Geolog	ist's Nam	le:			Environmen	tal Tec	hniciar	n's Name:
Drillir	Andr	eyev E	ngineeri	ng Inc.	Paveme	ent Thicl	mess (inc	hes).	Borehole Dian	ueter (inches):	Bo	rehole	Depth	guez
Env	ironme	ntal Dr	illing Ser	vices	I uvenik	6" co	ncrete		Dorenoie Dian	3	DO		Deptil	8
Drillin	ng Meth	od(s):	0	Apparer	t Boreho	le DTW (in feet	Me	asured Well DTW	/ (in feet after	OVA (list m	odel ar	nd chec	k type):
	ŀ	HA		from so	oil moistu	ire conten	t): 7	w	ater recharges in	well):				FID 🔽
Dispo	sition of	Drill (Cuttings [check m	ethod(s)]:		Drum	Spread	🔽 Backfill	Stoc	kpile		Other
(descr	ibe if ot	her or i	nultiple i	tems are	checked	d):								
Boreh	ole Con	pletior	n (check o	ne):		Well	Gro	out	Bentonite	Backfi	ill 🗖 🤉	Other ((descri	be)
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	(inclu	Sample de grain size bas and ot	e Description sed on USCS, odd her remarks)	ors, staining,	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA						0.1	1	6" conc	rete; 6" grayish	brown fine sand				
НА						0.7		Grayisł	n brown fine san	ıd		SP	D	
HA						0.7	2	Grayisł	n brown fine san	d		SP	D	
HA						0.5	3	Grayish	n brown fine san	ıd		SP	D	Sample SS-1 at 4' at 15:10 pm
HA						0.0	4	Grayisł	n brown to light l	brown fine sand		SP	м	i at io.io pii
НА						147.2	6	Light bi	rown fine sand			SP	w	
							8	Termin	ated at 8'					
							—							
							L							
							-							
Sample	- Type Co	odes: P	$\mathbf{PH} = Post \mathbf{F}$	Hole H	$\mathbf{A} = \mathbf{Han}\mathbf{c}$	1 Auger:	SS = Spli	t Spoon.	ST = Shelby Tu	be: $\mathbf{DP} = \text{Direct}$	Push: $SC = S$	onic Co	re DO	= Drill Cuttings

						Page 1 of								1
Boring	g/Well N	lumber	:			Permit	Number:				FDEP Facili	ty Iden	tificati	on Number:
		5	SB-4						N/A			608	351688	35
Site N	ame: Ar	noco #	89			Boreho	le Start D	ate:	08/04/15	Borehole Start	Time: 1	0:55		AM D PM
							End D	ate:	08/04/15	End	Fime: 1	1:10		AM D PM
Enviro	onmenta	l Contr	actor:	na Ino		Geolog	ist's Nam	e:			Environmen	tal Tec	hniciar Rodri	n's Name:
Drillir	Anuro ng Comr	anv:	ngineen	ng inc.	Paveme	ent Thick	mess (inc	thes):	Borehole Dian	neter (inches):	Bo	rehole	Depth	(feet):
Env	ironmei	ntal Dr	illing Ser	vices		6" co	ncrete		Dorenore Drai	3	20		o op un	8
Drillir	ng Metho	od(s):		Apparer	t Boreho	le DTW (in feet	Me	asured Well DTW	V (in feet after	OVA (list m	odel ar	nd chec	k type):
	ŀ	IA		from so	oil moistu	ire conten	it): 7	w	ater recharges in	well):				FID 🗹
Dispo	sition of	Drill (Cuttings [o	check m	ethod(s)]:		Drum	Spread	Backfill	Stoc	kpile		Other
(descr	ibe if oti	her or i	nultiple i	tems are	checked	d):								
Boreh	ole Com	pletior	n (check o	ne):		Well 🔲 Grout 🔲 Bentonite 🗹 Backfill 🔲 ((descri	be)
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	(inclu	Sample de grain size bas and of	e Description sed on USCS, odo ther remarks)	ors, staining,	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA						1.0	1	6" conc	rete; 6" dark gra	ayish brown fine	sand			
HA						1.5	2	Dark gr	ayish brown fine	e sand		SP	D	
HA						0.5	3	Dark gr	ayish brown fin	e sand		SP	D	
HA						0.4	4	Dark gr	ayish brown fin	e sand		SP	D	Sample SS-2 at 4' at 15:15 pm
HA						0.7	6	Light bi	own fine sand			SP	М	
HA						1,645	7.5	Light bi	own fine sand			SP	w	
НА								Grayish	n brown clayey f	ine sand		SC	w	
							8	Termin	ated at 8'					
							⊢							
				l								I		

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

												1 aş	ge I OI	1
Borin	g/Well N	lumber	:			Permit	Number:				FDEP Facili	ty Iden	tificati	on Number:
		5	SB-5						N/A			608	351688	85
Site N	ame: Ar	noco #	89			Boreho	le Start D	ate:	08/04/15	Borehole Start	Time: 1	1:15	\checkmark	АМ 🗖 РМ
							End D	ate:	08/04/15	End	Гime: 1	1:30		ам 🗖 РМ
Envire	onmenta	l Contr	actor:			Geolog	ist's Nam	e:			Environmen	tal Tec	hniciar	n's Name:
Drillin	Andr	eyev E	ngineeri	ng Inc.	Davomo	nt Thiel	mass (inc	has):	Borahola Dian	ater (inches):	Bo	Miguel	Depth	Iguez
Env	ironme	ntal Dr	illina Ser	vices	ravenie	6" co	ncrete	nes).	Borenoie Dian	3	DO		Depui	(leet). 8
Drilliı	ng Meth	od(s):	5	Apparer	nt Boreho	le DTW (in feet	Me	asured Well DTW	/ (in feet after	OVA (list m	odel an	nd chec	ck type):
	ŀ	ΗA		from se	oil moistu	re conten	t): 7	w	ater recharges in	well):				FID 🔽
Dispo	sition of	Drill C	Cuttings [o	check m	ethod(s)]:		Drum	Spread	🗹 Backfill	Stoc	kpile		Other
(descr	ibe if ot	her or i	nultiple it	tems are	checked	d):								
Boreh	ole Con	pletion	ı (check o	ne):		Well	Gro	out	Bentonite	Backfi	111 🗖 🤇	Other ((descri	be)
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	(inclu	Sample de grain size bas and of	e Description sed on USCS, odo her remarks)	ors, staining,	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
НА						0.7		6" conc	rete; 6" dark gra	ayish brown fine	sand			
						-	1	Dork ar	ovich brown fin	a aand				
HA						0.6		Dark gi	ayısıı biowii illi	e sanu		SP	D	Sample SS-3 at 2' at 15:20 pm
							2	Grayish	n brown fine san	d				2 at 10.20 pm
HA						0.4	3					SP	D	
НА						0.3		Grayish	n brown fine san	d		SP	р	
							4	Brown	find cand to ligh	t brown fing son	4			
HA						0.8	ć	DIOWII	inte sand to light	t brown nne san	u l	SP	м	
НА						1,007	0	Light bi	rown fine sand			SP	w	
							8	Termin	ated at 8'					
							<u> </u>							
Samel	Tuna Ci	dec. T	H - Post I	Jole: II	A - Hand	Augor	$SS = Sm^{12}$	t Speer:	ST - Shalby T.	iha: DP - Direct	$\mathbf{Puch} \cdot \mathbf{C} = \mathbf{C}$	onic Co		7 – Drill Cuttings

												Pag	ge 1 of	1
Boring	g/Well N	lumber	:			Permit	Number:		FDEP Facility Identification Number:					
<i>a</i> .		5	SB-6			N/A						608	351688	35
Site N	ame: Ai	noco #	89			Borehole Start Date: 08/04/15 Borehole Start T					Time: 1	1:35	~	AM 🗌 PM
							End D	ate:	08/04/15	End '	Time: 1	2:04		AM 🔽 PM
Enviro	onmenta	l Contr	actor:			Geolog	ist's Nam	le:			Environmen	tal Tec	hniciar	n's Name:
Drillir	Andr	eyev E	ngineen	ng inc.	Paveme	ent Thicl	mess (inc	hes).	Borehole Dian	neter (inches):	Bo	rehole	Depth	(feet):
Env	ironme	ntal Dr	illing Ser	rvices	I avenik	2" as	sphalt		Dorenoie Dian	3	Do		Deptil	8
Drillir	ng Meth	od(s):		Apparer	t Boreho	le DTW (in feet	Me	asured Well DTW	/ (in feet after	OVA (list m	odel ar	nd chec	k type):
	ł	HA		from so	oil moistu	re conter	it): 7	w	ater recharges in	well):				FID 🔽
Dispo	sition of	Drill C	Cuttings [check m	ethod(s)]:		Drum	Spread	Backfill	Stoc	kpile		Other
(descr	ibe if ot	her or i	nultiple i	tems are	checked	d):								
Boreh	ole Con	pletior	n (check o	one):		Well	Gro	out	Bentonite	e 🔽 Backf	ill 🗖 🤇	Other	(descri	be)
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	(inclu	Sample de grain size bas and of	e Description sed on USCS, odd ther remarks)	ors, staining,	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
НА						0.8		2" asph	alt; 6" base lim	erock; 4" brown t	fine sand			
						0.0	1	Decision	in a const					
НА						0.2		Brown	ine sand			SP	D	
							_ 2	Grav fir	ne sand					
HA						0.1	3	,				SP	D	
								Gray fir	ne sand					
HA						0.0	4					SP	D	
HA						0.0	6	Brown	o light brown fir	ne sand		SP	М	
HA						75.0		Light bi	own fine sand			SP	w	
							8	Termin	ated at 8'					
							_							
							—							
							 							
Sample	Type Co	odes: P	P H = Post F	Hole: H	A = Hand	Auger:	SS = Spli	t Spoon.	ST = Shelby Tu	the: $\mathbf{DP} = \text{Direct}$	Push: $SC = S$	onic Co	nte D(C = Drill Cuttings

Boring/Well Number: PBEP facility letterilization Number: PDEP facility letterilization Number: PDEP facility letterilization Number: PDEP facility letterilization Number: E0085169805 Site Name: Annoco # 80° Borchole Start Date: 08/064/15 Borchole Start Time: 12:34 A M \checkmark PM Environmental Contractor: Ceologisi N Name: Environmental Contractor: Geologisi N Name: Environmental Contractor: Miguel Rodriguez Drilling Company: Payexat Bochole DTW (an feet New): Borchole Dameter (inches): Borchole Depth (feec): Borchole Start Time: 12:34 A M \checkmark PM Drilling Mchol(s): Appazat Bochole DTW (an feet New): Borchole Dameter (inches): Borchole Dameter (inches): Borchole Depth (feec): FTD \checkmark Borchole Company: Payexat Bochole DTW (an feet New): To an oid monitare content: 7 water exhanges in well: OVA (list model and check type): FTD \checkmark HA HA Internationary New Office Rest Rest Rest Rest Rest Rest Rest Res													Pa	ge 1 of	1
SB-7 NA G0087415 Site Name: $Darchole Start Date:$ $Darchole Start Date:$ $12:34$ $AM article PM$ Site Name: $Darchole Start Date:$ $Darchole Start Date:$ $12:34$ $AM article PM$ Environmental Contractor: Geologist's Name: $Darchole Start Time:$ $12:50$ $AM article PM$ Diriting Company: Parement Thickness (inches): Borchole Dimmetri (inches): Borchole Dimmetri (inches): $Borchole Dapht (ifcet):$ Driting Company: Parement Thickness (inches): T Measured Wall DTW (in test After $Morehole Start Time:$ $12:50$ $AM article PM$ Driting Company: Parement Thickness (inches): T Measured Wall DTW (in test After $Morehole Dapht (ifcet):$ T Driting Complexition of Driti Cutting Icheck method(s): T Measured Wall DTW (in test After $Morehole Start Time:$ T $Maarer Contractor T Maarer Contractor T<$	Boring	g/Well N	lumber	:			Permit	Number:		FDEP Facility Identification Number:					
Site Name: Amoco # 89 Borchole Stan Date: 08/04/15 Borchole Stant Time: 12:34 A M P PM Environmental Contractor: Addreyev Engineering Inc. Environmental Technicain's Name: Environmental Technicain's Name: Mguel Rodriguez Defiling Company: Pavement Thickness (inches): Borchole Diameter (inches): Borchole Depth (ict): 8 Drilling Method(S): Apparent Borchole DTW (in feet Measured Well DTW (in feet after OVA (list model and check type): PTM HA Ion will indicate concent; 7 water recharges in well: 9 Backfill Other (describe): Borchole Completion (check one): Well Grout Ithe Bentonite Backfill Other (describe): Stample filters and deph or instresses and and other remarks) Brown fine sand SP D Immediate SP D Immediate SP D HA Ion Stample 0.0 1 3 "gravel: 9" graysh brown to orangish brown fine and sP D Immediate at 8" Immediate at 8" Immediate at 8" HA Ion Date: 0.0 3 "gravel: 9" graysh brown time sand SP D Immediate at 8" Immediate at 8" <td< td=""><td></td><td></td><td>Ś</td><td>SB-7</td><td></td><td></td><td colspan="5">N/A</td><td></td><td>608</td><td>851688</td><td>35</td></td<>			Ś	SB-7			N/A						608	851688	35
Environmental Contractor: Geologiat's Name: Environmental Technican's Name: Andreyev Engineering Inc: Particle Compary: Particle Compary: Particle Compary: Environmental Dilling Services 3'gravel Borehole Diameter (incles): Borehole Depth (tex): HA International Services 7'gravel 1'gravel Borehole Diameter (incles): Borehole Depth (tex): Borehole Diameter (incles): Apparent Burchole DTW (in feet Measured Well DTW (in feet anter OVA (list model and check type): Borehole Date: 0'VA (list model and check type): HA from soil motivare coated): 7 water cebarges in well): Borehole Date: 0'VA (list model and check type): Borehole Completion of Drill Cuttings (check method(s)): (describe f) dater or multiple items are checked): Borehole Completion (check one): Well Oront Bentonite Backfill Other (describe) Sumple Restrict Signific Restrict Signific Restrict Signific Restrict Signific Restrict Signific Restrict HA Internation Signific Restrict Signific Restric Signi	Site N	ame: Ar	noco #	89			Borehole Start Date: 08/04/15 Borehole Start T					Time: 1	2:34		АМ 🔽 РМ
Environmental Contractor: Geologist's Name: Environmental Centrality Stame: Miguel Rodriguez Drilling Company: Pavement Thickness (inches): Borehole Diameter (inches): Borehole Depth (feet): Environmental Drilling Services 3' gravel 3 8 Drilling Methods(s): Apprent Morbiol DV for feet Mesaurad Weil DVI in feet after OVA (list model and check type): PTD Disposition of Drill Cuttings (check methods(s)): Drum Spread Backfill Other (describe) Borehole Completion (check one): Well Grout Bentonite Mackfill Other (describe) Somple Description (in the same) Image Methods (Spread) The same checked): Sample Description (methods) Stample Description (methods)								End D	ate:	08/04/15	End	Гime: 1	2:50		ам 🔽 РМ
Andreyev Image Miguel Roanguez Environmental Drilling Comparis Parement Thickness (inches): Borehole Dameter (inches): Borehole Depth (feet): Brilling Comparis Aprevent Borehole DTW (in feet Measured Well DTW (in feet after OVA (list model and check type): PH from soil motivation contenty: 7 Water recharges in well): OVA (list model and check type): Disposition of Drill Cuttings (check method(s)): Image Drum Speed Backfill Other (describe) Borehole Completion (check one): Image Well Grout Bentonite Backfill Other (describe) Somple Degrip Symple Degrip Symple Degrip Symple Degrip Strong Strong Strong Y Strong	Enviro	onmenta	l Contr	actor:			Geolog	ist's Nam	ne:			Environmen	tal Tec	hniciar	n's Name:
Bring company Display to the set of	Drillir	Andr	eyev E	ngineeri	ng Inc.	Daveme	ant Thic	mass (inc	hes).	Borehole Dian	neter (inches):	Bo	Migue	Rodri Denth	guez
Big Apparent Borehole DTW (in feet HA Apparent Borehole DTW (in feet from soil moisture content): Measured Well DTW (in feet after water recharges in well): OVA (list model and check type): Disposition of DFIII Outlings [check method(s)]: Drum Spread Backfill Other (describe) Borchole Completion (check one): Well Grout Bentonite Backfill Other (describe) single Single Single Single Single Single Single Single F7.75e Well Grout Bentonite Backfill Other (describe)	Env	ironme	ntal Dr	illing Ser	vices	1 avenik	3" g	ravel		Dorenoie Dian	3	DO		Deptil	8
HA from soil moisture content): 7 water recharges in well): FTD Image: Content of the content o	Drillir	ng Meth	od(s):	0	Apparer	nt Boreho	le DTW (in feet	Me	asured Well DTW	/ (in feet after	OVA (list m	odel ar	nd chec	k type):
Disposition of Drill Cuttings (check method(s)): Drum Spread Backfill Stockpile Other (describe) Borchole Completion (check one): Well Grout Bentonite Backfill Other (describe) Borchole Completion (check one): Borchole Completion (check one): HA HA H		ł	ΗA		from so	oil moistu	ire conter	nt): 7	w	ater recharges in	well):				FID 🔽
describe if other or multiple items are checked): Borehole Completion (check one): Well Grout Bentonite Backfill Other (describe) Simple Description (theck one): Well Grout Bannet Sample Description (the check one): Lab Soil and Groundwater Samples (this sample Description (the check one): Simple Depth Simple Depth Interval V/N Ref Sample Description (the check one): Sample Description (the chec	Dispo	sition of	Drill (Cuttings [check m	ethod(s)]:		Drum	Spread	🗹 Backfill	🗖 Stoc	kpile		Other
Borehole Completion (check one): Well Grout Bentonie Bentonie Bentonie Bentonie Other (describe) Sample Description (include grain size based on USCS, odors, staining, and depth or temporary screen interval) HA HA	(descr	ibe if ot	her or i	nultiple i	tems are	e checked	d):								
Somple Type Sample Description (include grain size based on USCS, odors, staining, include grain size based on USCS, odors, staining, interval) Lab Soil and Groundwater Sample number and deptior emporary screen interval) HA Image Simple Degiting (include) Image Simple Degiti	Boreh	ole Con	pletior	n (check o	one):		Well	Gro	out	Bentonite	Backfi	11 🗖	Other	(descri	be)
HA Image: Constraint of the second of th	Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	(inclu	Sample de grain size bas and ot	e Description sed on USCS, odo her remarks)	rs, staining,	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA HA HA HA HA HA HA HA HA HA HA HA HA H	НА						0.0		3" grav	el; 9" grayish br	own to orangish	brown fine			
HA SP D HA 0.0 2 Brown fine sand SP D HA 0.0 3 Brown fine sand SP D HA 0.0 4 Light brown fine sand SP M HA 0.1 6 Light brown fine sand SP M HA 0.1 6 Light brown fine sand SP W HA 0.1 6 Light brown fine sand SP W HA 0.1 6 Light brown fine sand SP W HA 0.1 6 Light brown fine sand SP W HA 0.1 6 Light brown fine sand SP W HA 0.1 6 Light brown fine sand SP W HA 0.1 6 Light brown fine sand SP W HA 0.1 6 Light brown fine sand I I I HA 0.1 6 Light brown fine sand I I I HA 1.1 6 Light brown fine sand I I I HA 1.1 1.1 1.1 I I I I <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>Dreum</td><td>(in a normal</td><td></td><td></td><td></td><td></td><td></td></t<>								1	Dreum	(in a normal					
HA HA HA HA HA HA HA HA HA HA HA HA HA	HA						0.0	2	Brown	nne sand			SP	D	
HA HA HA HA HA	НА						0.0		Brown	fine sand			SP	D	
HA HA HA HA	μΔ						0.0	3	Brown	fine sand			SD		
HA HA HA HA							0.0	4	Light br	rown fine sand				D	
HA I I I I I I I I I I I I I I I I I I I	HA						0.1	6	1 to backs	C			SP	М	
Terminated at 8'	HA						0.0	8	Light bi	own fine sand			SP	w	
									Termin	ated at 8'					
								—							
								<u> </u>							
								<u> </u>							

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

												Pag	ge 1 of	1	
Boring	g/Well N	lumber	:			Permit	Number:				FDEP Facility Identification Number:				
		S	SB-8			N/A						608	851688	35	
Site N	ame: Ar	noco #	89			Borehole Start Date: 08/04/15 Borehole Start Ti					Time: 1	2:55		АМ 🔽 РМ	
							End D	ate:	08/04/15	End	Time: 1	3:12		AM 🗹 PM	
Enviro	onmenta	l Contr	actor:			Geolog	ist's Nam	ie:			Environmen	tal Tec	hniciar	n's Name:	
Drillir	Andr	eyev E	ngineeri	ng Inc.	Daveme	ant Thicl	mass (inc	hes).	Borehole Diar	neter (inches):	Bo	Migue	Rodri	guez	
Env	ironme	ntal Dr	illing Ser	vices	1 aveni	3" a	ravel	1105).	Dorenote Dian	3	DO		Deptil	8	
Drillir	ng Metho	od(s):	0	Apparen	t Boreho	le DTW (in feet	Me	asured Well DTV	V (in feet after	OVA (list m	odel ar	nd chec	k type):	
	ł	ΗA		from so	oil moistu	ire conter	it): 7	w	ater recharges in	well):				FID 🔽	
Dispo	sition of	Drill (Cuttings [check m	ethod(s)]:		Drum	Spread	✓ Backfill	Stoc	kpile		Other	
(descr	ibe if ot	her or i	nultiple i	tems are	checked	d):									
Boreh	ole Con	pletior	n (check o	one):		Well	Gro	out	Bentonite	e 🔽 Backf	ill 🗖	Other	(descri	be)	
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)					USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)	
НА						0.6	1	3" grav	el; 9" orangish I	prown fine sand					
							1	Orangis	sh brown fine sa	and		00			
па						0.0	2	Orongi	ah brown fino or	and		55			
HA						0.4	3	Orangis		anu		SP	D		
НА						0.1		Grayisł	n brown fine sar	nd		SP	D		
цл						0.0	4	Grayish	n brown fine sar	nd		еD	м		
						0.0	6	Brown	to light brown fi	ne sand			101		
HA						0.0	8	Tormin	atad at 8'			SP	W		
								rermin							
							<u> </u>								
Sample	e Type Co	odes: P	H = Post I	Hole: H	$\mathbf{A} = \mathbf{Hanc}$	1 Auger:	SS = Spli	t Spoon:	ST = Shelby Ti	the: $\mathbf{DP} = \text{Direct}$	Push: $SC = S$	onic Co	ore: DO	C = Drill Cuttings	

						Pag	ge 1 of	1	
Boring/Well Number:	Permit	Number:			FDEP Facility Identification Number:				
SB-9				608	851688	35			
Site Name: Amoco # 89	Boreho	Borehole Start Date: 08/04/15 Borehole Start Ti					\Box	АМ 🔽 РМ	
		End Date:	08/04/15	End	Time: 1	3:35		ам 🔽 РМ	
Environmental Contractor:	Geolog	gist's Name:			Environmen	tal Tec	hniciar	n's Name:	
Andreyev Engineering Inc	Pavement Thic	kness (inches):	Borehole Dian	neter (inches):	Bo	Viguei	Rodri Depth (guez	
Environmental Drilling Services	3" (gravel	Dorenote Dian	3	DO			8	
Drilling Method(s): Appare	nt Borehole DTW	(in feet M	leasured Well DTW	V (in feet after	OVA (list m	odel ar	nd chec	k type):	
HA from	soil moisture conte	nt): 7	water recharges in	well):				FID 🔽	
Disposition of Drill Cuttings [check r	nethod(s)]:	🗖 Drum	Spread	Backfill	Stoc	kpile		Other	
(describe if other or multiple items an	e checked):								
Borehole Completion (check one):	U Well	Grout	Bentonite	e 🔽 Backf	ill 🗖 🤇	Other ((descri	be)	
Unfiltered OVA SPT Blows (per six inches) Sample Recovery (inches) Sample Depth Interval (feet) Sample Type	Net OVA Filtered OVA	Depth (feet)				USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)	
НА	0.1	3" gra	ivel; 10" light brow	wn fine sand					
НА	0.1		prown line sand			SP	D		
на	0.1	Light	brown fine sand			SP	D		
на	0.1	Light	brown fine sand			SP	D		
на	0.1	Grayi	sh brown to brow	n fine sand		SP	М		
на	0.1	Brown	n fine sand			SP	w		
		Term	nated at 8'						
		$\left - \right $							
		\vdash							
		\vdash							
				4 DB - D'	Durle SQ C				

												Pag	ge 1 of	1	
Boring	g/Well N	lumber	:			Permit	Number:		FDEP Facility Identification Number:						
		S	B-10			N/A						608	851688	35	
Site N	ame: Ar	noco #	89			Borehole Start Date: 08/04/15 Borehole Start Tim					Time: 1	3:42	\Box .	АМ 🔽 РМ	
							End D	ate:	08/04/15	End	Гime: 1	13:58 🔲 ам 🗹 РМ			
Enviro	onmenta	l Contr	actor:			Geolog	ist's Nam	ie:			Environmen	tal Tec	hniciar	i's Name:	
Drillir	Andro	eyev E	ngineeri	ng Inc.	Daveme	nt Thicl	mass (inc	hes).	Borehole Dian	neter (inches):	Bo	Miguel	Rodri Depth (guez	
Env	ironme	ntal Dr	illing Ser	vices	1 avenic	3" a	ravel	1105).	Dorenote Dian	3	DO			B	
Drillir	ng Meth	od(s):	0	Apparen	t Boreho	le DTW (in feet	Me	asured Well DTV	V (in feet after	OVA (list m	odel ar	d chec	k type):	
	ŀ	ΗA		from so	oil moistu	re conten	nt): 7	w	ater recharges in	well):				FID 🔽	
Dispo	sition of	Drill C	Cuttings [o	check m	ethod(s)]:		Drum	Spread	🗹 Backfill	🗖 Stoc	kpile		Other	
(descr	ibe if ot	her or 1	nultiple it	tems are	checked	ł):									
Boreh	ole Con	pletion	ı (check o	ne):		Well	Gro	out	Bentonite	e 🔽 Backfi	11 🗖 🤇	Other (descri	be)	
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	0"				USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)	
НА						0.2	1	3" grav	el; 10" grayish t	prown fine sand					
НА						0.0	_ `	Grayisł	n brown fine sar	nd		SP	D		
							2	Grayisł	n brown fine sar	nd		0.0			
на						0.1	3	Liaht a	avish brown fin	e sand		58	D		
HA						0.1	4	Light gi				SP	D		
НА						0.1		Light gi	ayish brown to	brown fine sand		SP	м		
HA						0.1	0 8	Light bi	own fine sand			SP	D		
								Termin	ated at 8'						
							 								
							L								
							<u> </u>								
Sample	e Type Co	odes: P	P H = Post H	Hole: H	A = Hand	Auger:	SS = Spli	t Spoon:	ST = Shelby Ti	ibe: DP = Direct	Push: $SC = S$	onic Co	re: DC	C = Drill Cuttings	

						Pa	ge 1 of	1
Boring/Well Number:	Permit	Number:		FDEP Facility Identification Number:				
SB-11				608	351688	35		
Site Name: Amoco # 89	Boreho	Borehole Start Date: 08/04/15 Borehole Start T						AM 🗹 PM
	~	End Date:	08/04/15	End	Гime: 1	4:20		AM 🗹 PM
Environmental Contractor:	Geolog	ist's Name:			Environmen	tal Tec Miguol	hniciar Rodri	i's Name:
Drilling Company:	Pavement Thick	mess (inches):	Borehole Dian	neter (inches):	Bo	rehole	Depth ((feet):
Environmental Drilling Services			Dorenoie Dian	3	200		a cipul d	B
Drilling Method(s): Appare	nt Borehole DTW (in feet Me	easured Well DTW	/ (in feet after	OVA (list m	odel ar	nd chec	k type):
HA from s	oil moisture conten	ut): 7 v	vater recharges in	well):				FID 🔽
Disposition of Drill Cuttings [check n	ethod(s)]:	🗖 Drum	Spread	Backfill	Stoc	kpile		Other
(describe if other or multiple items ar	e checked):							
Borehole Completion (check one):	U Well	Grout	Bentonite	e 🔽 Backfi	11 🗖 🤇	Other	(descri	be)
Unfiltered OVA SPT Blows (per six inches) Sample Recovery (inches) Sample Depth Interval (feet) Sample Type	Net OVA Filtered OVA	Depth (feet)				USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
НА	0.0	Grayis	h brown fine sar	nd with roots		SP		
		1 Gravis	h hrown fine san	bd				
НА	0.1		n brown nine sar			SP	D	
		Grayis	h brown fine san	nd				
HA	0.2	3				SP	D	
		Brown	fine sand			0.5		
HA	0.1	4				5P	D	
на	0.0	Brown	fine sand			SP	М	
на	0.0	Brown	fine sand			SP	w	
		8 Termir	nated at 8'					
		\vdash						
Sample Type Codes: PH – Post Hole: H	A – Hand Auger	SS – Split Spoon	ST – Shelby Tu	ihe: DP – Direct	Push: $SC - S$	onic Co	vre [.] DO	' – Drill Cuttings

												Pag	ge 1 of	1	
Boring	g/Well N	lumber	:			Permit	Number:				FDEP Facility Identification Number:				
		S	B-12			N/A						608	351688	35	
Site N	ame: Ai	noco #	89			Borehole Start Date: 08/04/15 Borehole Start T					Time: 1	4:25		АМ 🔽 РМ	
							End D	ate:	08/04/15	End	Time: 1	4:52		ам 🔽 РМ	
Enviro	onmenta	l Contr	actor:			Geolog	ist's Nam	ie:			Environmen	tal Tec	hniciar	n's Name:	
Drillir	Andr	eyev E	ngineeri	ng Inc.	Daveme	nt Thicl	mass (inc	hes).	Borehole Diar	neter (inches):	Bo	Migue	Rodri	guez	
Env	ironme	ntal Dr	illing Ser	vices	1 avenic	int Thier	licss (inc	1105).	Dorenote Dian	3	БО		Deptil	8	
Drillir	ng Meth	od(s):	0	Apparen	t Boreho	le DTW (in feet	Me	asured Well DTV	V (in feet after	OVA (list m	odel ar	nd chec	k type):	
	ŀ	ΗA		from so	oil moistu	re conten	t): 7	w	ater recharges in	well):				FID 🔽	
Dispo	sition of	Drill (Cuttings [check m	ethod(s)]:		Drum	Spread	Backfill	Stoc	kpile	\Box	Other	
(descr	ibe if ot	her or i	multiple i	tems are	checked	<i>d):</i>									
Boreh	ole Con	pletior	n (check o	one):		Well	Gro	out	Bentonite	e 🔽 Backf	ïll 🗖	Other	(descri	be)	
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)					USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)	
НА						0.0		Grayish	n brown fine sar	nd		SP	D		
							1	Gravist	hrown fine sar	bd					
HA						0.0	2	Clayisi	i brown nine sai			SP	D		
							2	Grayish	n brown fine sar	nd					
HA						0.0	3					SP	D		
цл						0.0		Brown	fine sand			СD			
						0.0	4					0			
HA						0.0		Light bi	own fine sand			SP	м		
							6	Light bi	own fine sand						
HA						0.0	8					SP	W		
								Termin	ated at 8'						
							 								
Sample	Type Co	odes: P	PH – Post I	Hole: H	A – Hand	Auger.	SS – Spli	t Spoon.	ST – Shelby Ti	ibe: DP – Direct	Push: $SC - S$	Sonic Co	ne D	7 – Drill Cuttings	




















APPENDIX B

Table 1: Summary of Soil Vapor Analysis Readings

Amoco # 89
305 S. Main St., Wildwood, FL
60/8516885
8/4/2015

Soil Boring	Depth (feet)	Unfiltered (ppm)	Filtered (ppm)	Total Hydrocarbons (ppm)	Comments
SB-1	1.0 2.0 3.0 4.0 6.0 8.0			2.4 0.3 0.1 0.0 0.0 0.0	No odor
SB-2	1.0 2.0 3.0 4.0 6.0 8.0			3.8 0.3 1.2 0.4 0.0 0.0	No odor
SB-3	1.0 2.0 3.0 4.0 6.0 8.0			0.1 0.7 0.7 0.5 0.0 147.2	Fuel odor
SB-4	1.0 2.0 3.0 4.0 6.0 8.0			1.0 1.5 0.5 0.4 0.7 1,645	Fuel odor
SB-5	1.0 2.0 3.0 4.0 6.0 8.0			0.7 0.6 0.4 0.3 0.8 1,007	Fuel odor
SB-6	1.0 2.0 3.0 4.0 6.0 8.0			0.8 0.2 0.1 0.0 0.0 75.0	Fuel odor

Table 1: Summary of Soil Vapor Analysis Readings

Facility Name:	Amoco # 89			
Address:	305 S. Main St., V	Vildwood, FL		
Facility ID#:	60/8516885			
Date Sampled:	8/4/2015			
	1.0		0.0	
	2.0		0.0	
SB-7	3.0		0.0	No.odor
507	4.0		0.0	
	6.0		0.1	
	8.0		0.0	
	1.0		0.6	
	2.0		0.0	
CD_Q	3.0		0.4	No.odor
30-0	4.0		0.1	
	6.0		0.0	
	8.0		0.0	
	1.0		0.1	
	2.0		0.1	
SB-0	3.0		0.1	No.odor
50-5	4.0		0.1	
	6.0		0.1	
	8.0		0.1	
	1.0		0.2	
	2.0		0.0	
SB-10	3.0		0.1	No.odor
30-10	4.0		0.1	
	6.0		0.1	
	8.0		0.1	
	1.0		0.0	
	2.0		0.1	
SB-11	3.0		0.2	No.odor
50-11	4.0		0.1	
	6.0		0.0	
	8.0		0.0	
	1.0		0.0	
	2.0		0.0	
SB-17	3.0		0.0	No.dor
50-12	4.0		0.0	
	6.0		0.0	
	8.0		0.0	

TABLE 2: SUMMARY OF SOIL ANALYTICAL RESULTS

Facility Name:	Amoco #89
Address:	305 S. Main Street, Wildwood, FL
Facility ID#:	60/8516885
Date Sampled:	8/4/2015

Parameter	SS-1 (SB-3, @ 4')	SS-2 (SB-4, @ 4')	SS-3 (SB-5, @ 2')	SCTL , for GW or RU
Benzene	0.0004U	0.0004U	0.0004U	0.007
Ethylbenzene	0.0006U	0.0006U	0.0006U	0.6
Toluene	0.0005U	0.0005U	0.0005U	0.5
Total Xylenes	0.0010U	0.0010U	0.0010U	0.2
MTBE	0.0003U	0.0003U	0.0003U	0.0
Acenaphthene	0.016U	0.016U	0.016U	2.1
Acenaphthylene	0.019U	0.019U	0.019U	27
Anthracene	0.015U	0.015U	0.015	2,500
Benzo(a)anthracene	0.015U	0.015U	0.120	
Benzo(a)pyrene	0.016U	0.016U	0.110	
Benzo(b)fluoranthene	0.018U	0.018U	0.1500	Decidential 0.1*
Benzo(k)fluoranthene	0.020U	0.020U	0.0820	Residential - 0.1
Chrysene	0.013U	0.013U	0.1300	
Dibenzo(a,h)anthracene	0.017U	0.017U	0.0190	
Indendo(1,2,3-cd)pyrene	0.016U	0.016U	0.0750	
Benzo(g,h,i)perylene	0.016U	0.016U	0.0920	2,500
Fluoranthene	0.018U	0.0190	0.1800	1,200
Fluorene	0.018U	0.018U	0.018U	160
1-Methylnaphthalene	0.1800	0.0960	0.020U	2.2
2-Methylnaphthalene	0.4100	0.1800	0.0250	6.1
Naphthalene	0.4000	0.4000	0.0420	1.7
Phenanthrene	0.016U	0.0400	0.0610	250
Pyrene	0.017U	0.0250	0.1500	880
TPH	44.0	36.0	3.6U	340

U = Not detected above applicable laboratory detection limit. All results reported in milligrams per kilogram (mg/kg).

SCTL = Soil Cleanup Target Level, based on Chapter 62-777, FAC

SCTL , for GW or RU = Value for Groundwater Leachability or Residential Use

* = SCTL determined by Benzo (a) pyrene Conversion Table For Residential and Industrial Use



10775 Central Port Drive Orlando FL, 32824 Phone: 407.826.5314 FAX: 407.850.6945

Friday, August 14, 2015 Andreyev Engineering (AN015) Attn: Rob Cornelius 1170 W. Minneola Avenue Clermont, FL 34711

RE: Laboratory Results for Project Number: [none], Project Name/Desc: AMOCO #89 ENCO Workorder(s): A504790

Dear Rob Cornelius,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, August 5, 2015.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Orlando. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

K//

Ronald Wambles For Not Assigned Unassigned PM Enclosure(s)



SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SS-1		Lab ID:	A504790-01	Sampled:	08/04/15 15:10	Received: 08/05/15 08:45
Parameter	Hold Date/Time(s)		Prep Date	<u>/Time(s)</u>	Analysis Date/	<u>Time(s)</u>
EPA 8260B	08/18/15		08/08/15	00:00	08/08/15 16:19	
EPA 8270D	08/18/15	09/16/15	08/07/15	12:30	08/10/15 12:35	
FL-PRO	08/18/15	09/14/15	08/05/15	13:00	08/07/15 00:20	
Client ID: SS-2		Lab ID:	A504790-02	Sampled:	08/04/15 15:15	Received: 08/05/15 08:45
Parameter	Hold Date/Time(s)		Prep Date	e/Time(s)	Analysis Date/	<u>Time(s)</u>
EPA 8260B	08/18/15		08/08/15	00:00	08/08/15 16:49	
EPA 8270D	08/18/15	09/16/15	08/07/15	12:30	08/10/15 12:56	
FL-PRO	08/18/15	09/14/15	08/05/15	13:00	08/07/15 00:50	
Client ID: SS-3		Lab ID:	A504790-03	Sampled:	08/04/15 15:20	Received: 08/05/15 08:45
Parameter	Hold Date/Time(s)		Prep Date	e/Time(s)	Analysis Date/	<u>Time(s)</u>
EPA 8260B	08/18/15		08/08/15	00:00	08/08/15 17:18	
EPA 8270D	08/18/15	09/16/15	08/07/15	12:30	08/10/15 13:17	
FL-PRO	08/18/15	09/14/15	08/05/15	13:00	08/06/15 22:22	



SAMPLE DETECTION SUMMARY

Client ID: SS-1			Lab ID:	A504790-01			
Analyte	Results	Flag	MDL	POL	<u>Units</u>	Method	<u>Notes</u>
1-Methylnaphthalene	0.18		0.020	0.037	mg/kg dry	EPA 8270D	
2-Methylnaphthalene	0.41		0.019	0.037	mg/kg dry	EPA 8270D	
Naphthalene	0.40		0.019	0.037	mg/kg dry	EPA 8270D	
TPH (C8-C40)	44		3.6	6.0	mg/kg dry	FL-PRO	
Client ID: SS-2			Lab ID:	A504790-02			
Analyte	Results	Flag	MDL	<u>PQL</u>	<u>Units</u>	Method	Notes
1-Methylnaphthalene	0.096		0.020	0.037	mg/kg dry	EPA 8270D	
2-Methylnaphthalene	0.18		0.019	0.037	mg/kg dry	EPA 8270D	
Fluoranthene	0.019	Ι	0.018	0.037	mg/kg dry	EPA 8270D	
Naphthalene	0.40		0.019	0.037	mg/kg dry	EPA 8270D	
Phenanthrene	0.040		0.016	0.037	mg/kg dry	EPA 8270D	
Pyrene	0.025	Ι	0.017	0.037	mg/kg dry	EPA 8270D	
TPH (C8-C40)	36		3.6	6.0	mg/kg dry	FL-PRO	
Client ID: SS-3			Lab ID:	A504790-03			
Client ID: SS-3 Analyte	<u>Results</u>	<u>Flag</u>	Lab ID: <u>MDL</u>	A504790-03 <u>PQL</u>	<u>Units</u>	Method	<u>Notes</u>
Client ID: SS-3 Analyte 2-Methylnaphthalene	<u>Results</u> 0.025	<u>Flag</u> I	Lab ID: <u>MDL</u> 0.019	A504790-03 <u>PQL</u> 0.037	<u>Units</u> mg/kg dry	<u>Method</u> EPA 8270D	<u>Notes</u>
Client ID: SS-3 Analyte 2-Methylnaphthalene Anthracene	<u>Results</u> 0.025 0.015	<u>Flag</u> I I	Lab ID: <u>MDL</u> 0.019 0.015	A504790-03 POL 0.037 0.037	<u>Units</u> mg/kg dry mg/kg dry	<u>Method</u> EPA 8270D EPA 8270D	<u>Notes</u>
Client ID: SS-3 <u>Analyte</u> 2-Methylnaphthalene Anthracene Benzo(a)anthracene	Results 0.025 0.015 0.12	Flag I I	Lab ID: <u>MDL</u> 0.019 0.015 0.015	A504790-03 POL 0.037 0.037 0.037	Units mg/kg dry mg/kg dry mg/kg dry	<u>Method</u> EPA 8270D EPA 8270D EPA 8270D	<u>Notes</u>
Client ID: SS-3 <u>Analyte</u> 2-Methylnaphthalene Anthracene Benzo(a)anthracene Benzo(a)pyrene	Results 0.025 0.015 0.12 0.11	<u>Flag</u> I I	Lab ID: <u>MDL</u> 0.019 0.015 0.015 0.016	A504790-03 PQL 0.037 0.037 0.037 0.037	Units mg/kg dry mg/kg dry mg/kg dry mg/kg dry	<u>Method</u> EPA 8270D EPA 8270D EPA 8270D EPA 8270D	<u>Notes</u>
Client ID: SS-3 Analyte 2-Methylnaphthalene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	Results 0.025 0.015 0.12 0.11 0.15	Flag I I	Lab ID: MDL 0.019 0.015 0.015 0.016 0.018	A504790-03 PQL 0.037 0.037 0.037 0.037 0.037	Units mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry	<u>Method</u> EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D	<u>Notes</u>
Client ID: SS-3 Analyte 2-Methylnaphthalene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene	Results 0.025 0.015 0.12 0.11 0.15 0.092	<u>Flag</u> I I	Lab ID: <u>MDL</u> 0.019 0.015 0.015 0.016 0.018 0.016	A504790-03 PQL 0.037 0.037 0.037 0.037 0.037 0.037 0.037	Units mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry	Method EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D	<u>Notes</u>
Client ID: SS-3 Analyte 2-Methylnaphthalene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene	Results 0.025 0.015 0.12 0.11 0.15 0.092 0.082	<u>Flag</u> I I	Lab ID: <u>MDL</u> 0.019 0.015 0.015 0.016 0.018 0.016 0.020	A504790-03 PQL 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037	Units mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry	Method EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D	<u>Notes</u>
Client ID: SS-3 Analyte 2-Methylnaphthalene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene	Results 0.025 0.015 0.12 0.11 0.15 0.092 0.082 0.13	Flag I I	Lab ID: <u>MDL</u> 0.019 0.015 0.015 0.016 0.018 0.016 0.020 0.013	A504790-03 PQL 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037	Units mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry	Method EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D	<u>Notes</u>
Client ID: SS-3 Analyte 2-Methylnaphthalene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene	Results 0.025 0.015 0.12 0.11 0.15 0.092 0.082 0.13 0.019	Flag I I	Lab ID: <u>MDL</u> 0.019 0.015 0.016 0.018 0.016 0.020 0.013 0.017	A504790-03 PQL 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037	Units mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry	Method EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D	<u>Notes</u>
Client ID: SS-3 Analyte 2-Methylnaphthalene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene Fluoranthene	Results 0.025 0.11 0.15 0.015 0.12 0.11 0.15 0.092 0.082 0.13 0.019 0.18	Flag I I	Lab ID: <u>MDL</u> 0.019 0.015 0.016 0.018 0.016 0.020 0.013 0.017 0.018	A504790-03 PQL 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037	Units mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry	Method EPA 8270D EPA 8270D	<u>Notes</u>
Client ID: SS-3 Analyte 2-Methylnaphthalene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene Fluoranthene Indeno(1,2,3-cd)pyrene	Results 0.025 0.015 0.12 0.11 0.15 0.092 0.082 0.13 0.019 0.18 0.075	Flag I I	Lab ID: <u>MDL</u> 0.019 0.015 0.016 0.018 0.016 0.020 0.013 0.017 0.018 0.016	A504790-03 PQL 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037	Units mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry mg/kg dry	Method EPA 8270D EPA 8270D	<u>Notes</u>
Client ID: SS-3 Analyte 2-Methylnaphthalene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene Fluoranthene Indeno(1,2,3-cd)pyrene Naphthalene	Results 0.025 0.015 0.12 0.11 0.15 0.092 0.082 0.13 0.019 0.18 0.075 0.042	Flag I I	Lab ID: <u>MDL</u> 0.019 0.015 0.016 0.018 0.016 0.020 0.013 0.017 0.018 0.016 0.019	A504790-03 PQL 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037	Units mg/kg dry mg/kg dry	Method EPA 8270D EPA 8270D	<u>Notes</u>
Client ID: SS-3 Analyte 2-Methylnaphthalene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene Fluoranthene Indeno(1,2,3-cd)pyrene Naphthalene Phenanthrene	Results 0.025 0.11 0.15 0.092 0.082 0.13 0.019 0.18 0.075 0.042 0.061	Elag I I	Lab ID: MDL 0.019 0.015 0.016 0.018 0.016 0.020 0.013 0.017 0.018 0.016 0.019 0.016	A504790-03 PQL 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037	Units mg/kg dry mg/kg dry	Method EPA 8270D EPA 8270D	<u>Notes</u>



	ANALYTICAL RESULTS											
Description: SS-1			La	b Samp	le ID:A	504790-0)1		Received: 08/05/15 08:45			
Matrix: Soil				San	npled:0	8/04/15	15:10		Work Order: A5	04790		
Project: AMOCO #89				% Solids: 95.67								
Volatile Organic Compour	nds by GCMS											
^ - ENCO Orlando certified analyte [NEL	4C E83182]											
Analyte [CAS Number]	<u>Results</u>	Flag	<u>Units</u>	<u>DF</u>	<u>MDL</u>	PQL	Batch	Method	Analyzed	<u>By</u>	<u>Notes</u>	
Benzene [71-43-2]^	0.0004	U	mg/kg dry	1	0.0004	0.0010	5H08006	EPA 8260B	08/08/15 16:19	JAJ		
Ethylbenzene [100-41-4]^	0.0006	U	mg/kg dry	1	0.0006	0.0010	5H08006	EPA 8260B	08/08/15 16:19	JAJ		
m,p-Xylenes [108-38-3/106-42-3]^	0.0010	U	mg/kg dry	1	0.0010	0.0021	5H08006	EPA 8260B	08/08/15 16:19	JAJ		
Methyl-tert-Butyl Ether [1634-04-4]^	0.0003	U	mg/kg dry	1	0.0003	0.0010	5H08006	EPA 8260B	08/08/15 16:19	JAJ		
o-Xylene [95-47-6]^	0.0005	U	mg/kg dry	1	0.0005	0.0010	5H08006	EPA 8260B	08/08/15 16:19	JAJ		
Toluene [108-88-3]^	0.0005	U	mg/kg dry	1	0.0005	0.0010	5H08006	EPA 8260B	08/08/15 16:19	JAJ		
Xylenes (Total) [1330-20-7]^	0.0010	U	mg/kg dry	1	0.0010	0.0021	5H08006	EPA 8260B	08/08/15 16:19	JAJ		
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Re</u>	<u>c Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>	
4-Bromofluorobenzene	0.053	1	0.0510	104 %	71-	126	5H08006	EPA 8260B	08/08/15 16:19	JAJ		
Dibromofluoromethane	0.055	1	0.0510	107 %	72-	133	5H08006	EPA 8260B	08/08/15 16:19	JAJ		
Toluene-d8	0.056	1	0.0510	110 %	80-	123	5H08006	EPA 8260B	08/08/15 16:19	JAJ		
Semivolatile Organic Com	pounds by G	icms s	SIM									
^ - ENCO Orlando certified analyte [NEL]	AC E83182]											
Analyte [CAS Number]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	DF	MDL	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	Analyzed	<u>By</u>	<u>Notes</u>	
1-Methylnaphthalene [90-12-0]^	0.18		mg/kg dry	1	0.020	0.037	5H07027	EPA 8270D	08/10/15 12:35	jfi		
2-Methylnaphthalene [91-57-6]^	0.41		mg/kg dry	1	0.019	0.037	5H07027	EPA 8270D	08/10/15 12:35	jfi		
Acenaphthene [83-32-9]^	0.016	U	mg/kg dry	1	0.016	0.037	5H07027	EPA 8270D	08/10/15 12:35	jfi		
Acenaphthylene [208-96-8]^	0.019	U	mg/kg dry	1	0.019	0.037	5H07027	EPA 8270D	08/10/15 12:35	jfi		
Anthracene [120-12-7]^	0.015	U	mg/kg dry	1	0.015	0.037	5H07027	EPA 8270D	08/10/15 12:35	jfi		
Benzo(a)anthracene [56-55-3]^	0.015	U	mg/kg dry	1	0.015	0.037	5H07027	EPA 8270D	08/10/15 12:35	jfi		
Benzo(a)pyrene [50-32-8]^	0.016	U	mg/kg dry	1	0.016	0.037	5H07027	EPA 8270D	08/10/15 12:35	jfi		
Benzo(b)fluoranthene [205-99-2]^	0.018	U	mg/kg dry	1	0.018	0.037	5H07027	EPA 8270D	08/10/15 12:35	jfi		
Benzo(g,h,i)perylene [191-24-2]^	0.016	U	mg/kg dry	1	0.016	0.037	5H07027	EPA 8270D	08/10/15 12:35	jfi		
Benzo(k)fluoranthene [207-08-9]^	0.020	U	mg/kg dry	1	0.020	0.037	5H07027	EPA 8270D	08/10/15 12:35	jfi		
Chrysene [218-01-9]^	0.013	U	mg/kg dry	1	0.013	0.037	5H07027	EPA 8270D	08/10/15 12:35	jfi		
Dibenzo(a,h)anthracene [53-70-3]^	0.017	U	mg/kg dry	1	0.017	0.037	5H07027	EPA 8270D	08/10/15 12:35	jfi		
Fluoranthene [206-44-0]^	0.018	U	mg/kg dry	1	0.018	0.037	5H07027	EPA 8270D	08/10/15 12:35	jfi		
Fluorene [86-73-7]^	0.018	U	mg/kg dry	1	0.018	0.037	5H07027	EPA 8270D	08/10/15 12:35	jfi		
Indeno(1,2,3-cd)pyrene [193-39-5]^	0.016	U	mg/kg dry	1	0.016	0.037	5H07027	EPA 8270D	08/10/15 12:35	jfi		
Naphthalene [91-20-3]^	0.40		mg/kg dry	1	0.019	0.037	5H07027	EPA 8270D	08/10/15 12:35	jfi		
Phenanthrene [85-01-8]^	0.016	U	mg/kg dry	1	0.016	0.037	5H07027	EPA 8270D	08/10/15 12:35	jfi		
Pyrene [129-00-0]^	0.017	U	mg/kg dry	1	0.017	0.037	5H07027	EPA 8270D	08/10/15 12:35	jfi		
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Re</u>	<u>c Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>	
p-Terphenyl	1.6	1	2.08	76 %	50-	150	5H07027	EPA 8270D	08/10/15 12:35	jfi		
FL Petroleum Range Orga	nics											
^ - ENCO Orlando certified analyte [NEL]	AC E83182]											
Analyte [CAS Number]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	MDL	PQL	Batch	Method	Analyzed	<u>By</u>	<u>Notes</u>	
TPH (C8-C40)^	44		mg/kg dry	1	3.6	6.0	5H04030	FL-PRO	08/07/15 00:20	JJB		
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Re</u>	<u>c Limits</u>	<u>Batch</u>	<u>Method</u>	Analyzed	<u>By</u>	<u>Notes</u>	
n-Nonatriacontane	3.5	1	3.48	100 %	60-	118	5H04030	FL-PRO	08/07/15 00:20	JJB		

o-Terphenyl

62-109

1.74 98 %

1.7

1

JJB

FL-PRO

08/07/15 00:20

5H04030



ANALYTICAL RESULTS											
Description: SS-2			La	b Samp	le ID:A	504790-0)2		Received: 08/	/05/15 0	8:45
Matrix: Soil				San	npled:0	8/04/15 1	15:15		Work Order: A50	04790	
Project: AMOCO #89				Sample	ed By:⊮	1Iguel Ro	driguez		% Solids: 95	5.47	
Volatile Organic Compour	nds by GCMS										
^ - ENCO Orlando certified analyte [NEL4	AC E83182]										
Analyte [CAS Number]	<u>Results</u>	Flag	<u>Units</u>	DF	MDL	PQL	Batch	Method	Analyzed	<u>By</u>	<u>Notes</u>
Benzene [71-43-2]^	0.0004	U	mg/kg dry	1	0.0004	0.0010	5H08006	EPA 8260B	08/08/15 16:49	JAJ	
Ethylbenzene [100-41-4]^	0.0006	U	mg/kg dry	1	0.0006	0.0010	5H08006	EPA 8260B	08/08/15 16:49	JAJ	
m,p-Xylenes [108-38-3/106-42-3]^	0.0010	U	mg/kg dry	1	0.0010	0.0021	5H08006	EPA 8260B	08/08/15 16:49	JAJ	
Methyl-tert-Butyl Ether [1634-04-4]^	0.0003	U	mg/kg dry	1	0.0003	0.0010	5H08006	EPA 8260B	08/08/15 16:49	JAJ	
o-Xylene [95-47-6]^	0.0005	U	mg/kg dry	1	0.0005	0.0010	5H08006	EPA 8260B	08/08/15 16:49	JAJ	
Toluene [108-88-3]^	0.0005	U	mg/kg dry	1	0.0005	0.0010	5H08006	EPA 8260B	08/08/15 16:49	JAJ	
Xylenes (Total) [1330-20-7]^	0.0010	U	mg/kg dry	1	0.0010	0.0021	5H08006	EPA 8260B	08/08/15 16:49	JAJ	
Surrogates	Results	DF	Spike Lvl	% Rec	% Re	c Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	0.053	1	0.0550	97 %	71-	126	5H08006	EPA 8260B	08/08/15 16:49	JAJ	
Dibromofluoromethane	0.056	1	0.0550	102 %	72-	133	5H08006	FPA 8260B	08/08/15 16:49	<i>14 1</i>	
Toluene-d8	0.055	1	0.0550	99 %	80	123	5H08006	EPA 8260B	08/08/15 16:49	JAJ	
Semivolatile Organic Com	pounds by G	CMS S	SIM								
^ - ENCO Orlando certified analyte [NELA	4 <i>C E83182]</i>										
Analyte [CAS Number]	Results	<u>Flag</u>	<u>Units</u>	DF	MDL	PQL	Batch	Method	Analyzed	<u>By</u>	<u>Notes</u>
1-Methylnaphthalene [90-12-0]^	0.096		mg/kg dry	1	0.020	0.037	5H07027	EPA 8270D	08/10/15 12:56	jfi	
2-Methylnaphthalene [91-57-6]^	0.18		mg/kg dry	1	0.019	0.037	5H07027	EPA 8270D	08/10/15 12:56	jfi	
Acenaphthene [83-32-9]^	0.016	U	mg/kg dry	1	0.016	0.037	5H07027	EPA 8270D	08/10/15 12:56	jfi	
Acenaphthylene [208-96-8]^	0.019	U	mg/kg dry	1	0.019	0.037	5H07027	EPA 8270D	08/10/15 12:56	jfi	
Anthracene [120-12-7]^	0.015	U	mg/kg dry	1	0.015	0.037	5H07027	EPA 8270D	08/10/15 12:56	jfi	
Benzo(a)anthracene [56-55-3]^	0.015	U	mg/kg dry	1	0.015	0.037	5H07027	EPA 8270D	08/10/15 12:56	jfi	
Benzo(a)pyrene [50-32-8]^	0.016	U	mg/kg dry	1	0.016	0.037	5H07027	EPA 8270D	08/10/15 12:56	jfi	
Benzo(b)fluoranthene [205-99-2]^	0.018	U	mg/kg dry	1	0.018	0.037	5H07027	EPA 8270D	08/10/15 12:56	jfi	
Benzo(g,h,i)perylene [191-24-2]^	0.016	U	mg/kg dry	1	0.016	0.037	5H07027	EPA 8270D	08/10/15 12:56	jfi	
Benzo(k)fluoranthene [207-08-9]^	0.020	U	mg/kg dry	1	0.020	0.037	5H07027	EPA 8270D	08/10/15 12:56	jfi	
Chrysene [218-01-9]^	0.013	U	mg/kg dry	1	0.013	0.037	5H07027	EPA 8270D	08/10/15 12:56	jfi	
Dibenzo(a,h)anthracene [53-70-3]^	0.017	U	mg/kg dry	1	0.017	0.037	5H07027	EPA 8270D	08/10/15 12:56	jfi	
Fluoranthene [206-44-0]^	0.019	I	mg/kg dry	1	0.018	0.037	5H07027	EPA 8270D	08/10/15 12:56	jfi	
Fluorene [86-73-7]^	0.018	U	mg/kg dry	1	0.018	0.037	5H07027	EPA 8270D	08/10/15 12:56	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5]^	0.016	U	ma/ka drv	1	0.016	0.037	5H07027	EPA 8270D	08/10/15 12:56	ifi	
Naphthalene [91-20-3]^	0.40		ma/ka drv	1	0.019	0.037	5H07027	EPA 8270D	08/10/15 12:56	ifi	
Phenanthrene [85-01-8]^	0.040		ma/ka drv	1	0.016	0.037	5H07027	EPA 8270D	08/10/15 12:56	ifi	
Pyrene [129-00-0]^	0.025	Ι	mg/kg dry	1	0.017	0.037	5H07027	EPA 8270D	08/10/15 12:56	jfi	
Surrogates	Results	DF	Spike Lvl	% Rec	% Re	c Limits	Batch	Method	Analvzed	Bv	Notes
p-Terphenyl	1.6	1	2.08	79 %	50-	150	5H07027	EPA 8270D	08/10/15 12:56	jfi	
FL Petroleum Range Orga	nics										
^ - ENCO Orlando certified analyte [NELA	AC E83182]										
Analyte [CAS Number]	<u>Results</u>	Flag	<u>Units</u>	DF	<u>MDL</u>	PQL	Batch	Method	Analyzed	<u>By</u>	<u>Notes</u>
TPH (C8-C40)^	36		mg/kg dry	1	3.6	6.0	5H04030	FL-PRO	08/07/15 00:50	JJB	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Re</u>	<u>c Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
n-Nonatriacontane	3.8	1	3.49	108 %	60	118	<i>5H04030</i>	FL-PRO	08/07/15 00:50	JJB	
o-Terphenyl	1.7	1	1.75	<i>98 %</i>	62	109	5H04030	FL-PRO	08/07/15 00:50	JJB	



Description: SS-3			La	b Samp	ole ID:A	504790-0)3		- Received: 08/	/05/15 0	8:45
Matrix: Soil				San	npled:0	8/04/15 1	15:20		Work Order: A5	04790	
Project: AMOCO #89				Sample	ed By:⊮	IIguel Ro	driguez		% Solids: 95	5.63	
Volatile Organic Compound	ls by GCMS										
^ - ENCO Orlando certified analyte [NELAC	E831827										
Analyte [CAS Number]	Results	<u>Flag</u>	<u>Units</u>	DF	MDL	PQL	Batch	Method	Analyzed	<u>By</u>	<u>Notes</u>
Benzene [71-43-2]^	0.0004	U	mg/kg dry	1	0.0004	0.0010	5H08006	EPA 8260B	08/08/15 17:18	JAJ	
Ethylbenzene [100-41-4]^	0.0006	U	mg/kg dry	1	0.0006	0.0010	5H08006	EPA 8260B	08/08/15 17:18	JAJ	
m,p-Xylenes [108-38-3/106-42-3]^	0.0010	U	mg/kg dry	1	0.0010	0.0021	5H08006	EPA 8260B	08/08/15 17:18	JAJ	
Methyl-tert-Butyl Ether [1634-04-4]^	0.0003	U	mg/kg dry	1	0.0003	0.0010	5H08006	EPA 8260B	08/08/15 17:18	JAJ	
o-Xylene [95-47-6]^	0.0005	U	mg/kg dry	1	0.0005	0.0010	5H08006	EPA 8260B	08/08/15 17:18	JAJ	
Toluene [108-88-3]^	0.0005	U	mg/kg dry	1	0.0005	0.0010	5H08006	EPA 8260B	08/08/15 17:18	JAJ	
Xylenes (Total) [1330-20-7]^	0.0010	U	mg/kg dry	1	0.0010	0.0021	5H08006	EPA 8260B	08/08/15 17:18	JAJ	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Re</u>	<u>c Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	Notes
4-Bromofluorobenzene	0.052	1	0.0553	94 %	71-	126	5H08006	EPA 8260B	08/08/15 17:18	JAJ	
Dibromofluoromethane	0.058	1	0.0553	105 %	72	133	5H08006	EPA 8260B	08/08/15 17:18	JAJ	
Toluene-d8	0.059	1	0.0553	107 %	80	123	<i>5H08006</i>	EPA 8260B	08/08/15 17:18	JAJ	
Semivolatile Organic Comp	ounds by G	icms s	SIM								
^ - ENCO Orlando certified analyte [NELAC	E83182]										
Analyte [CAS Number]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	DF	MDL	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	Analyzed	<u>By</u>	<u>Notes</u>
1-Methylnaphthalene [90-12-0]^	0.020	U	mg/kg dry	1	0.020	0.037	5H07027	EPA 8270D	08/10/15 13:17	jfi	
2-Methylnaphthalene [91-57-6]^	0.025	I	mg/kg dry	1	0.019	0.037	5H07027	EPA 8270D	08/10/15 13:17	jfi	
Acenaphthene [83-32-9]^	0.016	U	mg/kg dry	1	0.016	0.037	5H07027	EPA 8270D	08/10/15 13:17	jfi	
Acenaphthylene [208-96-8]^	0.019	U	mg/kg dry	1	0.019	0.037	5H07027	EPA 8270D	08/10/15 13:17	jfi	
Anthracene [120-12-7]^	0.015	Ι	mg/kg dry	1	0.015	0.037	5H07027	EPA 8270D	08/10/15 13:17	jfi	
Benzo(a)anthracene [56-55-3]^	0.12		mg/kg dry	1	0.015	0.037	5H07027	EPA 8270D	08/10/15 13:17	jfi	
Benzo(a)pyrene [50-32-8]^	0.11		mg/kg dry	1	0.016	0.037	5H07027	EPA 8270D	08/10/15 13:17	jfi	
Benzo(b)fluoranthene [205-99-2]^	0.15		mg/kg dry	1	0.018	0.037	5H07027	EPA 8270D	08/10/15 13:17	jfi	
Benzo(g,h,i)perylene [191-24-2]^	0.092		mg/kg dry	1	0.016	0.037	5H07027	EPA 8270D	08/10/15 13:17	jfi	
Benzo(k)fluoranthene [207-08-9]^	0.082		mg/kg dry	1	0.020	0.037	5H07027	EPA 8270D	08/10/15 13:17	jfi	
Chrysene [218-01-9]^	0.13		mg/kg dry	1	0.013	0.037	5H07027	EPA 8270D	08/10/15 13:17	jfi	
Dibenzo(a,h)anthracene [53-70-3]^	0.019	Ι	mg/kg dry	1	0.017	0.037	5H07027	EPA 8270D	08/10/15 13:17	jfi	
Fluoranthene [206-44-0]^	0.18		mg/kg dry	1	0.018	0.037	5H07027	EPA 8270D	08/10/15 13:17	jfi	
Fluorene [86-73-7]^	0.018	U	mg/kg dry	1	0.018	0.037	5H07027	EPA 8270D	08/10/15 13:17	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5]^	0.075		mg/kg dry	1	0.016	0.037	5H07027	EPA 8270D	08/10/15 13:17	jfi	
Naphthalene [91-20-3]^	0.042		mg/kg dry	1	0.019	0.037	5H07027	EPA 8270D	08/10/15 13:17	jfi	
Phenanthrene [85-01-8]^	0.061		mg/kg dry	1	0.016	0.037	5H07027	EPA 8270D	08/10/15 13:17	jfi	
Pyrene [129-00-0]^	0.15		mg/kg dry	1	0.017	0.037	5H07027	EPA 8270D	08/10/15 13:17	jfi	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Re</u>	<u>c Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
p-Terphenyl	1.8	1	2.09	<i>85 %</i>	50	150	5H07027	EPA 8270D	08/10/15 13:17	jfi	
FL Petroleum Range Organ	ics										
^ - ENCO Orlando certified analyte [NELAC	E83182]									_	
Analyte [CAS Number]	Results	Flag	<u>Units</u>	<u>DF</u>	MDL	PQL	Batch	Method	Analyzed	<u>By</u>	Notes
IPH (C8-C40)^	3.6	U	mg/kg dry	1	3.6	6.0	5H04030	FL-PRO	08/06/15 22:22	JJB	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Re</u>	<u>c Limits</u>	<u>Batch</u>	<u>Method</u>	Analyzed	<u>By</u>	<u>Notes</u>
n-Nonatriacontane	3.4	1	3.49	<i>98 %</i>	60-	118	<i>5H04030</i>	FL-PRO	08/06/15 22:22	JJB	
o-Terphenyl	1.7	1	1.74	<i>98 %</i>	62-	109	5H04030	FL-PRO	08/06/15 22:22	JJB	



Volatile Organic Compounds by GCMS - Quality Control

Batch 5H08006 - EPA 5030B_MS

Blank (5H08006-BLK1)					Prepare	ed: 08/08/201	5 00:00 Anal	yzed: 08/08/	2015 14:47		
Analyte	Result	Flag	POL	Units	Spike	Source	%RFC	%REC	RDD	RPD Limit	Notes
Benzene	0.0004	U	0.0010	mg/kg	Level	<u>Result</u>	JUNEC	Linits	N D	<u></u>	Hotes
Ethylbenzene	0.0006	U	0.0010	wet mg/kg							
m,p-Xylenes	0.0010	U	0.0020	wet mg/kg							
Methyl-tert-Butyl Ether	0.0003	U	0.0010	mg/kg wet							
o-Xylene	0.0005	U	0.0010	mg/kg wet							
Toluene	0.0005	U	0.0010	mg/kg wet							
Xylenes (Total)	0.0010	U	0.0020	mg/kg wet							
4-Bromofluorobenzene	0.052			mg/kg wet	0.0500		104	71-126			
Dibromofluoromethane	0.052			mg/kg wet	0.0500		103	72-133			
Toluene-d8	0.054			mg/kg wet	0.0500		107	80-123			
LCS (5H08006-BS1)					Prepare	ed: 08/08/201	5 00:00 Anal	yzed: 08/08/	2015 13:48		
					Smike	Sourco				BDD	
Analyte	Result	<u>Flaq</u>	POL	<u>Units</u>	Level	<u>Result</u>	%REC	Limits	RPD	<u>Limit</u>	Notes
Benzene	0.017		0.0010	mg/kg wet	0.0200		87	49-142			
Toluene	0.018		0.0010	mg/kg wet	0.0200		91	55-136			
4-Bromofluorobenzene	0.047			mg/kg wet	0.0500		93	71-126			
Dibromofluoromethane	0.050			mg/kg	0.0500		99	72-133			
Toluene-d8	0.051			mg/kg wet	0.0500		103	80-123			
LCS Dup (5H08006-BSD1)					Prepare	ed: 08/08/201	5 00:00 Anal	yzed: 08/08/	2015 14:18		
Analyte	Result	<u>Flaq</u>	POL	<u>Units</u>	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	Limit	Notes
Analyte Benzene	<u>Result</u> 0.017	<u>Flag</u>	POL 0.0010	<u>Units</u> mg/kg wet	Spike Level 0.0200	Source <u>Result</u>	%REC 86	%REC <u>Limits</u> 49-142	RPD 0.7	Limit 19	<u>Notes</u>
Analyte Benzene Toluene	<u>Result</u> 0.017 0.019	<u>Flaq</u>	POL 0.0010 0.0010	Units mg/kg wet mg/kg wet	Spike Level 0.0200 0.0200	Source <u>Result</u>	%REC 86 94	%REC <u>Limits</u> 49-142 55-136	RPD 0.7 3	Limit 19 21	<u>Notes</u>
Analyte Benzene Toluene 4-Bromofluorobenzene	Result 0.017 0.019 0.046	<u>Flaq</u>	POL 0.0010 0.0010	Units mg/kg wet mg/kg wet	Spike Level 0.0200 0.0200 0.0200	Source <u>Result</u>	%REC 86 94 <i>93</i>	%REC <u>Limits</u> 49-142 55-136 <i>71-126</i>	RPD 0.7 3	Limit 19 21	<u>Notes</u>
Analyte Benzene Toluene 4-Bromofluorobenzene Dibromofluoromethane	Result 0.017 0.019 0.046 0.050	<u>Flaq</u>	POL 0.0010 0.0010	Units mg/kg wet mg/kg wet mg/kg wet	Spike Level 0.0200 0.0200 0.0500 0.0500	Source <u>Result</u>	%REC 86 94 <i>93</i> 100	WREC Limits 49-142 55-136 71-126 72-133	RPD 0.7 3	Limit 19 21	<u>Notes</u>

Batch 5H07027 - EPA 3550C_MS



Semivolatile Organic Compounds by GCMS SIM - Quality Control

Batch 5H07027 - EPA 3550C_MS - Continued

Blank (5H07027-BLK1)					Prepare	ed: 08/07/201	5 12:30 Anal	yzed: 08/10/	2015 09:39		
Analyte	Result	Flag	POL	Units	Spike Level	Source	%REC	%REC Limits	RPD	RPD Limit	Note
1-Methylnaphthalene	0.019	U	0.035	mg/kg	Level	Kesun	JUNEO	2000		<u></u>	1000
2-Methylnaphthalene	0.018	U	0.035	mg/kg wet							
Acenaphthene	0.015	U	0.035	mg/kg wet							
Acenaphthylene	0.018	U	0.035	mg/kg wet							
Anthracene	0.014	U	0.035	mg/kg wet							
Benzo(a)anthracene	0.014	U	0.035	mg/kg wet							
Benzo(a)pyrene	0.015	U	0.035	mg/kg wet							
Benzo(b)fluoranthene	0.017	U	0.035	mg/kg wet							
Benzo(g,h,i)perylene	0.015	U	0.035	mg/kg wet							
Benzo(k)fluoranthene	0.019	U	0.035	mg/kg wet							
Chrysene	0.012	U	0.035	mg/kg wet							
Dibenzo(a,h)anthracene	0.016	U	0.035	mg/kg wet							
Fluoranthene	0.017	U	0.035	mg/kg wet							
Fluorene	0.017	U	0.035	mg/kg wet							
Indeno(1,2,3-cd)pyrene	0.015	U	0.035	mg/kg wet							
Naphthalene	0.018	U	0.035	mg/kg wet							
Phenanthrene	0.015	U	0.035	mg/kg wet							
Pyrene	0.016	U	0.035	mg/kg wet							
p-Terphenyl	1.5			mg/kg wet	2.00		73	50-150			
LCS (5H07027-BS1)					Prepare	ed: 08/07/201	5 12:30 Anal	yzed: 08/10/	2015 10:00		
A	Desult	F 1	501		Spike	Source		%REC		RPD	
Acenaphthene	1.4	<u>riaq</u>	0.035	mg/kg	2.00	<u>Result</u>	%REC 72	<u>Limits</u> 39-106	RPD	Limit	Notes
Benzo(a)pyrene	1.6		0.035	wet mg/kg	2.00		81	60-118			
Benzo(g,h,i)perylene	1.5		0.035	wet mg/kg	2.00		75	50-117			
Naphthalene	1.4		0.035	wet mg/kg	2.00		68	34-95			
p-Terphenyl	1.5			mg/kg	2.00		75	50-150			
Matrix Spike (5H07027-MS1)				wet	Prepare	ed: 08/07/201	5 12:30 Anal	yzed: 08/10/	2015 10:22		
Source: A504574-01					Sniko	Source		%DEC		RDD	
Analyte	Result	Flag	POI	Unite	Spike	Source	0/ DEC	Limite	DDD	Limit	Notes



Semivolatile Organic Compounds by GCMS SIM - Quality Control

Batch	5H07027	' - EPA	3550C	MS -	Continued

Matrix Spike (5H07027-MS1)	Continued				Prepar	ed: 08/07/201	5 12:30 Anal	yzed: 08/10/	2015 10:22		
Source: A504574-01											
Analyte	Result	Flag	PQL	<u>Units</u>	Spike Level	Source Result	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes
Acenaphthene	1.5		0.037	mg/kg dry	2.09	0.016 U	73	39-106			
Benzo(a)pyrene	1.7		0.037	mg/kg dry	2.09	0.016 U	83	60-118			
Benzo(g,h,i)perylene	1.5		0.037	mg/kg dry	2.09	0.016 U	73	50-117			
Naphthalene	1.4		0.037	mg/kg dry	2.09	0.019 U	68	34-95			
p-Terphenyl	1.6			mg/kg dry	2.09		75	50-150			
Matrix Spike Dup (5H07027-N	MSD1)				Prepar	ed: 08/07/201	5 12:30 Anal	yzed: 08/10/	2015 10:43		
Source: A504574-01											
Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acenaphthene	1.5		0.037	ma/ka drv	2.08	0.016 U	72	39-106	2	30	
Benzo(a)pyrene	1.7		0.037	ma/ka drv	2.08	0.016 U	81	60-118	2	30	
Benzo(g,h,i)pervlene	1.5		0.037	ma/ka drv	2.08	0.016 U	71	50-117	3	30	
Naphthalene	1.4		0.037	mg/kg dry	2.08	0.019 U	68	34-95	1	30	
p-Terphenyl	1.6			mg/kg dry	2.08		76	50-150			
FL Petroleum Range Organics -	Quality Contr	ol									
Batch 5H04030 - EPA 3550	с)С										
					Droppr	od: 09/04/201	E 12:20 Apol	vzodi 08/0E/	2015 16:15		
Blaik (SH04050-BERT)					Flepar	eu. 00/04/201	5 15.50 Anal	yzeu. 00/03/	2013 10.13		
					Spike	Source		%REC		RPD	
Analyte	<u>Result</u>	<u>Flag</u>	PQL	<u>Units</u>	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Notes
ТРН (С8-С40)	3.4	U	5.7	mg/kg wet							
n-Nonatriacontane	3.5			mg/kg wet	3.33		104	60-118			
o-Terphenyl	1.7			mg/kg wet	1.67		103	62-109			
LCS (5H04030-BS1)					Prepar	ed: 08/04/201	5 13:30 Anal	yzed: 08/05/	2015 16:44		
					Cuika	Courses				000	
Analyte	Result	Flag	PQL	<u>Units</u>	Level	Result	%REC	Limits	RPD	Limit	Notes
TPH (C8-C40)	64		5.7	mg/kg	56.7		112	63-153			
				wet							
n-Nonatriacontane	3.0			mg/kg	3.33		91	60-118			
a Tamband	17			wet	1.67		104	C2 100			
o-Terpnenyi	1.7			mg/kg wet	1.67		104	62-109			
Matrix Spike (5H04030-MS1)					Prepar	ed: 08/04/201	5 13:30 Anal	yzed: 08/05/	2015 17:14		
Source: A504576-03											
Analyta	Pocult	Flag	POI	Unite	Spike	Source		%REC		RPD	Natas
	<u>Result</u>	<u>riay</u>		<u>Units</u>	Level	Result	%REC	<u>Limits</u>	RPD	Limit	Notes
Irп (Lð-L4U) 	130		6.3	mg/kg dry	02.5	8.9	199	62-204			
n-Nonatriacontane	6.0			mg/kg dry	3.68		163	60-118			QS-03
o-Terphenyl	3.0			mg/kg dry	1.84		161	62-109			QS-03
Matrix Spike Dup (5H04030-	MSD1)				Prepar	ed: 08/04/201	5 13:30 Anal	yzed: 08/05/	2015 17:43		
Source: A504576-03					Sniko	Source		%PFC		RDD	
Analyte	<u>Result</u>	<u>Flaq</u>	PQL	<u>Units</u>	Level	Result	%REC	Limits	RPD	Limit	Notes
FINAL	This report re	elates only t	o the sample	as received by th	e laboratory, a	and may only be	reproduced in	full.		Pac	e 9 of 1



FL Petroleum Range Organics - Quality Control

Batch 5H04030 - EPA 3550C - Continued

Matrix Spike	Dup (5H04030-MS	D1) Continue	d			Prepared: 08/04/2015 13:30 Analyzed: 08/05/2015 17:43								
Source: A504	576-03													
Analyte		<u>Result</u>	Flag	POL	<u>Units</u>	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes		
TPH (C8-C40)		84		6.3	mg/kg dry	62.3	8.9	120	62-204	46	25	QM-11		
n-Nonatriacontane		4.1			mg/kg dry	3.67		112	60-118					
o-Terphenyl		1.8			mg/kg dry	1.83		96	62-109					



FLAGS/NOTES AND DEFINITIONS

- PQL: Practical Quantitation Limit.
- **B** Results are based upon membrane filter colony counts that are outside the method indicated ideal range.
- **I** The reported value is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL).
- J Estimated value.
- **K** Off-scale low; Actual value is known to be less than the value given.
- L Off-scale high; Actual value is known to be greater than value given.
- M Presence of analyte is verified but not quantified; the actual value is less than the MRL but greater than the MDL.
- **N** Presumptive evidence of presence of material.
- **O** Sampled, but analysis lost or not performed.
- **Q** Sample exceeded the accepted holding time.
- **T** Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
- **U** Indicates that the compound was analyzed for but not detected.
- V Indicates that the analyte was detected in both the sample and the associated method blank.
- Y The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
- **Z** Too many colonies were present (TNTC); the numeric value represents the filtration volume.
- **?** Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
- * Not reported due to interference.
- QM-11 Precision between duplicate matrix spikes of the same sample was outside acceptance limits.

QS-03 Surrogate recovery outside acceptance limits

ENVIR 10775 Cent Orlando, FI (407) 826-5	ONMENTAL CONSE trail Port Dr. 32824 314 Fax (407) 850-6945	4810 Executive Park Court, Suite Jacksonville, FL 32216-6089 (904) 296-3007 Fax (904) 296-6	ATORIES CHAIN-OF-CUSTODY RECORD uite 111 102-A Woodwinds Industrial Ct. Cary, NC 27511 6-6210 (919) 467-3090 Fax (919) 467-3515						www.encolabs.co			
Client Name	Project Number					F	lequester	d Analyses		Requested Turnaround		
Andreyev Engineering (AN015) Address * 1170 W. Minneola Avenue City/st/Zip Clermont, FL 34711	[none] Project Name/Deac AMOCO #89 PO # / Billing Info	H SIM, FLPRO	stex + Mtbe)	E,SPLP 8260B	182700 PAH SIM	H	H Arom		Times Note : Rush requests subject to acceptance by the facilityStandard			
Tel Fax	Reporting Contact	PA	E E	ZH	NO	Ep	3					
(352) 241-0508 (352) 241-0977 Sampler(s) Name, Almation (Print) H1902 Kuty 5422 Sampler(s) Signature	Rob Cornelius Billing Contact Rob Cornelius Ste Location / Time Zone	%Solids,8270D	8260B Aron	D dTdS ZLEL Prese	1312 SPLP EXT S	EPH Aliph, EPH Av Unfractionated	VPH Aliph,		Lab Workorder			
	Collection	Manda Translation			Prese	rvation (S	ee Codes) (Combine as necessar)	0	A304730		
Item # Sample ID (Field Identification) Collection Date	Time Comp / Grab	(see codes) Containers		01	1	1	1	01		Sample Comments		
55-1- 8-4-15	1510 G	50	Y,	V,	V,	V,	V.	/		AROAR O = TINEL MaCH+ DEWATER		
55-2	1515		V	1.	1	V	V	V,		VPH O = 5mL MeOH		
25-3 V	1520			/	7	-						
										-		
			-	-			-					
			C. Tat	ol # ol 6	Contoine							
Sample Kit Prepared By SKC Comments/Special Reporting Requirements	30 Relinquished By Relinquished By Relinquished By	bsiy.	I< lot	al # of C Date/Tin 7/31 Dete/Tin $\xi-5$ Date/Tin	15 1 15/08	130 130 245	Received Beceived Bar	By fulth By and t	Part	Date/Time 8-1-15/1730 2-5-15 Bate/Time 8-5-15 845		
	Cooler #'s & Temps on Rec C-42 2	1990 +						1	Condition Upor	Receipt ceptable Unacceptable		

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: 1-ice H-HCI N-HNO3 S-H2SO4 NO-NaDH O-Other (detail in comments) Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

APPENDIX C

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name:	Amoco #89
Location:	305 S. Main St., Wildwood, FL
Facility/Site ID No .:	60/8516885
Soil Sample No.	SS-3
Sample Date	8/4/2015
Location:	SB-5
Depth (ft):	2 feet

<u>INSTRUCTIONS</u>: Calculate Total Benzo(a)pyrene Equivalents <u>if at least one of the carcinogenic PAHs is</u> <u>detected in the sample</u> at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

- 1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
- 2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
- If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
- 4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
- 5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.110	1.0	0.1100
Benzo(a)anthracene	0.120	0.1	0.0120
Benzo(b)fluoranthene	0.150	0.1	0.0150
Benzo(k)fluoranthene	0.082	0.01	0.0008
Chrysene	0.130	0.001	0.0001
Dibenz(a,h)anthracene	0.019	1.0	0.0190
Indeno(1,2,3-cd)pyrene	0.075	0.1	0.0075
DE Residential = 0.1 mg/kg; D	E Industrial = 0.7 mg/kg		

Total Benzo(a)pyrene Equivalents =

0.16

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries											
Detection	Concentration Reported	Data Qualifier	Enter								
Various	Quantified with certainty	None	reported value								
Various	Estimated	J	reported (estimated) value								
ND at MDL	MDL	U	1/2 reported value								
< MDL	Estimated	Т	reported (estimated) value								
≥ MDL but < PQL	Estimated	I	reported (estimated) value								
≥ MDL but < PQL	PQL	Μ	1/2 reported value								

APPENDIX D

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SITE NAME: A MOCO # 89													
WELL NO:	MW-	1	(e	SAMPLEI	D:	(E	DATE:	-12-1	15	
				- <u>1</u>	PUF	GING DA	TA		I	- E	IP.		
WELL DIAMETER	(inches): 2	TUBING	FR (inches):	VA WELL	SCREE	N INTERVAL	ant -	STATIC DE	PTH 77	PL OI	JRGE PUMP TY	PE PP	
WELL VOLU	JME PURGE:	1 WELL VOL	UME = (TOTA)	IL WELL DEPT	'H - S	TATIC DEPTH T	O WAT	TER) X	WELL CAPACIT	Y		2	
EOIIIDMEN		RCE, LEOU		5-00	feet-	7.70		feet) X	0.16	gallons/f	oot = 10	C . gallons	
(only fill out	if applicable)	NGE: IEQUI	PMENI VOL.	= PUMP VOLU	JWE + (1	UBING CAPACI	17	X IUE	SING LENGTH)	+ Flow C	ELL VOLUME		
INITIAL PU	NP OR TUBINO	261	FINAL PUM	= ga P OR TUBING	ions + (G	IX CA	, feet)	+	gallons	= gallons	
DEPTHIN	VELL (feet):	9.20	DEPTHINV	VELL (feet):	12.0	00 INITIATE	ED AT:	1153	ENDED AT:	1222	PURGED (g	allons): 2.13	
TIME	VOLUME PURGED (gallons)	ÇUMUL. VOLUME PURGED (gallonis)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standaı units)	rd TEMP, (°C)	СС (circl µmh <u>or</u>	OND. e units) ios/cm μS/cm)	OXYGEN (circle units) (mg/l) or	TURBIC · (NTU:	- NTY CỌĻO s) (describ	R ODOR be) (describe)	
1213	1.5	1.5	0.07	9.54	6.41	27.4	.5	29	2.2	1.5	1 Man	NONE	
1216	0.21	1.71		9.72	6.3	5 27.2	.5	34	2.4	2.76	6 LEON		
1219	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$												
1742	1222 V 2.13 10.00 6.30 26.7 .549 3.8 2.74 in												
		×	-							/			
		*											
						i				1	· · ·		
												• • •	
WELLCAR	ACITY (Gollin	· Dar Érath	0 751 - 0 00.	11-0.04	d oru	0.00			λ.				
TUBING IN	ISIDE DIA. CA	PACITY (Gal./	Ft.): $1/8" = 0.02;$	1'' = 0.04; 0006; 3/16"	1.25" =	0.06; 2" = 0. 4; 1/4" = 0.00	16; : 26;	3" = 0.37; 5/16" = 0.0	4" = 0.65;)04; 3/8" = 0	5" = 1,02;),006;	6" ≕ 1,47; 1/2" ≕ 0.010;	12" = 5.88 5/8" = 0.016	
PURGING	EQUIPMENT	CODES: E	s = Bailer;	BP = Bladder I	² ump;	ESP = Electric	Subm	iersible Pur	np; PP=P	eristaltic P	ump; O = (Other (Specify)	
SAMPLED	BY (PRINTY A	AFFILIATION:		SAMPLER(S)	SIGNAT	URE(S):	ALA	·					
Migu.	el Koc	trique	2		C	Gult	57.		INITIATED A	т: 122		NG AT:	
PUMP OR DEPTH IN	TUBING WELL (feet):	12.00	0	TUBING MATERIAL C	ODE:	PE	1	FIELD-	FILTERED: Y	N	FILTER	GIZE:μm	
FIELDDE	CONTAMINATI	ON: PUN	MP · Y	I/	TUBIN	NG Y NY	replace	ed)	DUPLICATE	Y Y	A		
' SAM	PLE CONTẠIN	ER SPECIFIC	ATION		SAMPL	EPRESERVATI	ON		ÎNTEND	ED	SAMPLING	SAMPLE PUMP	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CÓDE	VOLUME	PRESERVAT USED	IVE	TOTAL VOL	(ml.)	FINAL	ANALYSIS A	ND/OR	EQUIPMENT CODE	FLOW RATE (mL per minute)	
MW-1	3	CB	120m2	HCI		None	(12	7260/ VO	(2)	PPP	4.0	
	2	M	2000 ml	H2504				42	FLPro	1	APP	1430	
		R4	230m	None		V		NA	n70(PAI	Km)	APP	10.0	
	/	TE	250 MC					NIA	Phosphate a	osta	APP	10.0	
	· · · · ·							2					
REMARKS	S:									1			
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)													
NOTEO	OAMPLING EXCOMPT CODES: APP = Atter Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); 0 = Other (Specify)												
NOTES: 1 2	. The above	on ot con	stitute all of	the Informa	tion rec <u>OF LAS</u> T	uired by Cha THREE CONSEC	pter 6 CUTIVE	2-160, F.A	A.C. S (SEE FS 221	2. SECTIC	IN 3)		
h	HI + 0.2 unite	Topport		0100-	in al cont		- JIYE	NEADING:	LULL I VZZI		וס אוי		

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

SITE NAME:	AMOCO	# 89	?	·	SIT	e Cation:					
WELL NO	MW-	2		SAMPLE	ID:			D	ATE: 6-	12-13	5
					PURG	ING DA	ГА		- ę i		
WELL	2	TUBING	D (inches)	A WEL	L SCREEN I	NTERVAL	STATIC	EPTH 7/		PUMP TYPE	PP
WELLVO	LUME PURGE:	1 WELL VOLU	ME = (TOTAL	WELL DEP	TH - STAT	TIC DEPTH TO	OWATER) X	WELL CAPACIT	Y OR BAI	LER:	//
(only fill o	ut if applicable)		1=(1	2.97	feet- 7	.09	feet) X	0.16	gallons/foot	= 0.9	· gallons
EQUIPM (only fill o	ENT VOLUME PU ut if applicable)	RGE: 1 EQUIF	MENT VOL. =	PUMP VOL	UME + (TUB	NG CAPACI	ΓΥ Χ΄ ΤΙ	JBING LENGTH)	FLOW CELL	VOLUME	· · · ·
INUTIAL P					llions + (gallo	ns/foot X	, feet) +		gallons =	gallons
DEPTH	N WELL (feet):	9.00	DEPTH IN W	ELL (feet):	19.00	INITIATE	DAT: 1006	ENDED AT:	P	URGED (gaļļ	ons):1.72
TIME	VOLUME PÜRGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (^o C)	COND. (circle units) µmhos/cm or µS/cm	OXYGEN (circle units) mg/L <u>or</u> % saturation	TURBIDITY · (NTUs)	CỌĻOR (describe)	ODOR (describe)
1018	1.0	1.0	0.08	7.84	6.68	30-0	-347	0.8	2.46	Clen	oldfuel
1021	0.24	1.24	1	7.84	6.67	30.1	.348	0.7	1.79	1~	. 11
1024	» <u> </u>	1.48	1/	7.84	6.66	30.2	.348	0.7	1.42	(
1027	1	1.72	V.	7.84	6.66	30.2	-347	0-8	1.40	u	IC
	-	·		11 × 11							
		·									
							1				· · · ·
7.55	¥.										
WELL C	CAPACITY (Gallor	is Per Foot): (.75" ≈ 0.02;	1" = 0.04;	1.25" = 0.0)6; 2" = 0.	16; 3" = 0.37	; 4" = 0.65;	5" = 1.02; 6	"=1.47; 1	2" = 5.88
TUBINO	INSIDE DIA. CA	PACITY (Gal./I	-t.): 1/8" = 0.0	0006; 3/16 BB = Bladder	" = 0.0014; Dump: 1	$\frac{1}{4^{"}} = 0.00$	26; 5/16" = (0.004; 3/8" = 0	.006; 1/2" =	= 0.010; 5	/8" = 0.016
, often	to Recon martin		- Dalici,	Diadder	SAME	PLINGD	ATA		enstanto Pump,	0-00	let (obécity)
SAMPL	ED BY (PRINT) /	AFFILIATION:	1	SAMPLER(S) SIGNATUF	RE(S):	101	SAMPLING	1000	SAMPLING	}
Mig	uel Noo	rigue	-			year	457	INITIATED A	T:1049	ENDED AT	1
DEPTH	IN WELL (feet):	9:0	20	MATERIAL	CODE: P	E	FIEL	D-FILTERED; Y ation Equipment Ty	/pe;	FILTERSIZ	ζE;μm .
FIELD	DECONTAMINAT		IP · Y		TUBING	YN	replaced)	DUPLICATE	Y	N	
' S	AMPLE CONTAIN	ER SPECIFIC	ATION		SAMPLEF	RESERVATI	ON	ÎNTEŅD	ED SA	MPLING	SAMPLE PUMP
SAMPL ID COD	E · # E CONTAINERS	MATERIAL, CÓDE	VOLUME	PRESERVA	TIVE	TOTAL VOL	(ml) FINAL	ANALYSIS A METHO	ND/OR EQ	CODE	(mL per minute)
Mw-	2 3	CB	120ml	HCI		None	22	8260 ha	as R	FPP	
	2	AS	2800 ml	Hy 504	-		42	FI Pro	1	-PP	
	1	AB	250000	NON				8270 (PA	15m A	PP	
	2	CB	BOML					8011(2	DB) R	FPP	
	1	PE	250002			/		Rousshate C	irthd 1	LPP	
DELLA		PE	250ml	i.		V		Notesta Su	Pate 7	1PP	
REMA	KND:				10 10						
MATE	RIAL CODES:	AG = Amber	Glass; CG	= Clear Glass	; PE=P	olyethylene	PP = Polypro	ovlene: S=Silio	one: T≓Te	lon: O=C	ther (Specify)
SAMP	LING EQUIPMEN	T CODES:	APP = After P	eristaltic Pum	p; B=E	Bailer; BF	P = Bladder Pum	p; ESP = Elec	tric Submersibl	e Pump;	
NOTES	: 1. The abov	e do not con	KFPP = Rever	se Flow Peris	staltic Pump;	SM = Stra	aw Method (Tub	ing Gravity Drain);	0 = Other	(Specify)	
NOTES	: 1. The abov	e do not con	stitute all of	the inform	ation requi	red by Cha	pter 62-160, 1	AC.	-		

2. <u>STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212; SECTION 3)</u> pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygén: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

SITE	AMOCO	# 89			. 5	OCATION: 3	1)5 50	Main 5	T Wild	wood	F)
WELL NO	: MW-	1		SAMPLE	ID:			t	DATE:	12-10	5
		.		- I	PUR	GING DA	ГА			<u> </u>	
WELL	R (inches), 2	TUBING	EP (inches):	4 WEL	L SCREEN	NINTERVAL	STATIC D	EPTH 7/			PP
WELLVO	LUME PURGE:	1WELL VOLT	JME = (TOTA	WELL DEP	TH - 51	ATIC DEPTH T	OWATER) X	WELL CAPACI	TY ON DA		
(only fill o	ut it applicable)	-	1=(/	4.10	feet-	7.22	feet) X	0.16	gallons/foot	- 1-2	gallons
(only fill o	ut if applicable)	RGE: 1 EQUI	PMENT VOL.		UME + (TI	JBING CAPACI	ry x ti	JBING LENGTH)	+ FLOW CELL	VOLUME	
INITIAL É			FINAL PUM	= ga P OR TUBINO	allons + (ns/foot X	, feet)	+ 	gallons =	gallons MF
DEPTHĮ	NWELL (feet):	9.00	DEPTHIN V	/ELL (feet):	9.0	INITIATE	ED AT: 1344	ENDED AT:	1408 F	URGED (ga	lons): 1.73
TIME VOLUME VOLUME PURGE PURGE RATE WATER (gallon's) (gpm) (gpm) (feet) (gpm) (feet) (gpm) (feet) (gpm) (gp										ODOR (describe)	
135%	1.1	1.1	0.07	7.55	6.5	3 30.4	. 401	2-9	9.45	Cheen	Nove
1407	0.21	1-31	1	7.55	6.61	30.5	.402	3.0	10.18	14	· <u>N</u>
140	3 1.	1.52		7.55	6.60	- 30.6	- 402	3.2	7.92	11	. (1
1401	- V	1.73		7:95	6.63	5 30.9	-401	3.2	1.63	le	15
										-	
						*				1	
			-						2		
WELL C	APACITY (Gallo	S Per Foot):	0.75" = 0.02	1"=0.04.	1.25" =	0.06: 2"=0	$\frac{16}{2^{2}-0.27}$	A"=0.65	5 ⁰ + 1 02 €	-1 47.	101 - 5 98
TUBINO	INSIDE DIA. CA	PACITY (Gal./	Ft.): 1/8" = 0.	0006; 3/10	6" ≈ 0.0014	1/4" = 0.00	26; 5/16" = ().004; 3/8" = 0	0.006; 1/2"	= 0.010;	5/8" = 0.016
PURGI	IG EQUIPMENT	CODES: B	= Bailer;	BP = Bladder	Pump;	ESP = Electric	Submersible P	ump; PP ≈ F	Peristaltic Pump	0 = 0t	her (Specify)
SAMPL	ED BY (PRINT)	AFFILIATION:		SAMPLER(B) SIGNAT	URE(S):		SÄMPLING	12.2	SAMPLIN	3
1119	Ull Ko	drigue	n	belle tile		(pul)	m	INITIATED A	T:/410	ENDED A	T:
DEPTH	IN WELL (feet):	9.00	0	MATERIAL	CODE:	TE	FIEL	D-FILTERED: Y tion Equipment T	ype:	FILTERS	Ζ̈̈́;,,,,μm
FIELD	DECÓNTAMINAT	ION: PUN	MP · Y	ワ	TUBIN	IG Y N	replaced)	DUPLICATE	Υ	N	
S S	AMPLE CONTAIN	IER SPECIFIC	ATION	PECEDVA	SAMPLI	EPRESERVATI	<u>o</u> N		DED S/	MPLING	SAMPLE PUMP
ID CODI	CONTAINERS	CODE	VOLUME	USED		DDED IN FIELD	(mL) PH	METH		CODE	(mL per minute)
Mar.	4 3	CM	120 ml	HCI		Nane	22	8260 (V	agos B	FPP	4.0
		120	2000ml	H230	Y		22	FIPro	/	SPP_	143.0
		AD	250102	ICM		4	N/B	- 8270 (P)	MISIM) A	SP-	10.0
									/	-	
REMA	RKS:								L		
MATERIAL CODES: AG = Amber Glassi CG = Clear Glassi DE = D-luttule in DD = D l											
SAMPLING EQUIPMENT CODES: APP = After Peristalitic Pump; B = Bailer; BP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
L NOTES	: 1. The abov	e do not con	RFPP = Reve	rse Flow Peri	staltic Pum ation rec	p; SM = Stra	w Method (Tubi	ng Gravity Drain)	0 = Other	(Specify)	

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygén: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

SITE A	NITE AMOCO # 89 SITE LOCATION: 305 So Main ST., Wildwood, FL											
WELL NO:	MW-	5		' SAMPLE II	D:				, j	ATE: 6 -	12-1	5
		• •			PURG	ING DAT	ΓA					
WELL	(inches); 2	TUBING	P (inches):	WELL	SCREEN I	NTERVAL	ST	ATICODE	PTH RI	PURG	E PUMP TYP	PP
WELL VOLU	IME PURGE:	1 WELL VOLU	JME = (TOTA	L WELL DEPT	H - STAT	TIC DEPTH TO	D WATE	R) X I	WELL CAPACIT	Y		
(only fill out i	f applicable)		1 = ()	4.22	eet-	8.16	fe	et) X	0.16	gallons/foot	=1.0	· gallons
Conly fill out	T VOLUME PU if applicable)	IRGE: 1 EQUI	PMENT VOL.	= PUMP VOLU	IME + (TUB	ING CAPACIT	үх	(TUB	SING LENGTH)	+ FLOW CELI	. VOLUME	••
			FINAL PLIME	CR TUBING	lons + (ns/foot X	1405	, feet)	+	gallons = TOTAL VOLU	gallons ME
DEPTH IN V	VELL (feet):	9.00	DEPTHINN	/ELL (feet):	9.00	INITIATE	D AT: /	AL	ENDED AT:	1449	PURGED (gal	lons): 1.63
TIME	VOLUME	CUMUL. VOLUME	PURGE	DEPTH TO	pH (standard	TEMP,	100 (circle	ND. units)	OXYGEN	- TURBIDITY	COLOR	ODOR
(Inte	(gallons)	PURGED (gallons)	RATE (gpm)	WATER (feet)	units)	(⁰ C)	μmho or μ	s/cm 5/cm		· (NTÚs)	(describe)) (describe)
1440	1.1	1.0	0.07	8.67	6.46	28.3	.2	79	2.4	34.8	Cloube	None
1443	0.21	1.21	1	8.69	6.50	28.0	. 27	19	2.6	34.6	11	·t
1446	1446 1 1.42 8.69 6.36 27.8 .277 2.6 28.4 11 11											
1449	\sim	1.63	V	8.68	6.50	28-1	.27	77	2-8	15.34	Clear	- 4
		·									-	
						4						
					4							
WELL CAP	ACITY (Gallo	is Per Écot): (75'' = 0.02'	1"=0.04.	1 25" = 0 (61 911	-0.97	A" - 0.65	E ² = 1.02	CH - 1 47.	101 - 5 00
TUBING IN	ISIDE DIA. CA	PACITY (Gal./	-t.): 1/8" = 0.	0006; 3/16"	= 0.0014;	1/4" = 0.002	26; 5	5/16" = 0.0	$3/8^{-1} = 0.00$	0.006; 1/2"	= 0.010; 5	5/8" = 0.016
POKOING	EQUIPMENT	CÓDE2: R	= Bailer;	3P = Bladder H	SAME		Submer ATA	rsible Pun	np; PP=P	eristaltic Pum	o; O = Ol	her (Specify)
SAMPLED	BY (PRINT) /	AFFILIATION:		SAMPLER(S)	SIGNATUF	RE(S):			SÄMPLING	1	SAMPLIN	3
PILLE OR	el 1.00	triguez	-	TURNIO		un	n.		INITIATED A	T: 1451	ENDED A	Г:
DEPTH IN	WELL (feet):	9.00	2	MATERIAL C	ODE: 7	PE		FIELD- Filtratic	FILTERED: Y	/pe:	FILTERSI	ΖΕ:μm .
FIELD DE	CONTAMINAT	ION: PUN	IP · Y		TUBING	Y N(eplaced	1)	DUPLICATE	Y	N	
- SAM	PLE CONTAIN #	IER SPECIFIC	ATION	PRESERVAT	SAMPLE F	RESERVATIO	ИÇ		INTEND ANALYSIS A	ED S ND/OR E	AMPLING	SAMPLE PUMP FLOW RATE
ID CODE	CONTAINERS	CODE	VOLUME	USED	ADD	ED IN FIELD	(mL)	pH	METHO	• 00	CODE	(mL per minute)
MW-2	2	C/J Au	nom	HU		Nong		22	8260 No	as) X	TYP	4.0
	1	10	2 EDM	H2 204		-/	6	12	1-1 10	100	PY-	143.0
		for a	6.300NV	wood		V		IV/A	6670(CA)	H2(m) 1	PT -	10.0
DEHADIZ	<u></u>											
	REMARKS:											
MATERIA	MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene: PP = Polyeropolene: S = Silicone: T = Teilon: O = Other (Specify)											
SAMPLIN	IG EQUIPMEN	T CODES:	APP = After P	eristaltic Pump	; B=E	Bailer; BP	= Bladd	er Pump;	ESP = Elec	tric Submersl	ble Pump;	
NOTES: 1	. The above	e do not con	stitute all of	the Informa	tion requi	red by Char	oter 62	-160, F.A	Gravity Drain);	O = Othe	r (Specity)	

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygén: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

	MACO	# 89	7	•	SI LO	TE CATION:						
WELL NO:	MW-	-16		SAMPLE	ID:	-			E	DATE: 6-	12-10	5
		1			PURG	ING DA	TA			•		-
Well Diameter (Well volu	(iņches): 2 JME PURGE:	TUBING DIAMETE	R (inches):	WELL DEP	L SCREEN TH: fe TH – STA	INTERVAL et to fe TIC DEPTH T	eet TC	ATIC DEF WATER R) X V	TH (feet): 7.7	4 PURGI OR BA	E PUMP TYP ILER: `	■ PP
(only fill out i EQUIPMEN	f applicable) T VOLUME PUI	RGE: 1 EQUIP	1= (B.10	feet⊷ UME + (TUE	7. 74 BING CAPACIT	fe TY X	et) X (TUB	0.16 ING LENGTH)	gallons/foot + FLOW CELL		7 gallons
				= ga	illons + (gallo	ons/foot X	ζ	, feet)	+	gallons =	gallons
INITIAL PUN DEPTH IN V	VELL (feet):	9.00	FINAL PUMP DEPTHIN W	POR TUBING /ELL (feet):	13.00	PURGIN	G ED AT: /	052	PURGING ENDED AT:	1126	PURGED (ga	ME lons): 3.40
TIME	VOLUME PURGED (galloris)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	CON circle) باتthio م <u>ر</u> ا	ND. units) s/cm S/cm	OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY · (NTUs)	COĻOR (describe	ODOR (describe)
1/17	2.5	2-5	0.10	10.70	6.29	27.8	-47	16 -	1.3	4.62	- Cleav	Selfhur
1123	1	3.10		11 34	631	279	. 6	The last	1.6	2-87	· ·	K
126 3.40 11.46 6-29 27.7 .616 1.5 2.44 1												
	6	•								1		
												1
											-	<u> </u>
		·								· · · · ·		
WELL CAR	ACITY (Gallon	is Per Foot); (PACITY (Gal./I	1.75'' = 0.02;	$1^{"} = 0.04;$	$1.25^{"} = 0.0014^{"}$	06; 2'' = 0.	16; 3'	'=0.37;	4'' = 0.65;	$5^{"} = 1.02;$	6'' = 1.47;	12" = 5.88 5/8" = 0.016
PURGING	EQUIPMENT	CODES: B	= Bailer;	BP = Bladder	Pump;	ESP = Electri	c Subme	rsible Pun	np; PP=È	Peristaltic Pump	O = Ot	her (Specify)
L adubi 50	DV/DDINEY				SAM	PLING D	ATA			•		
Migu	e PRINT	appiliation:	2	SAMPLER(S	5) SIGNATU	RE(S):	h		SÀMPLING INITIATED A	AT:1/28	SAMPLIN ENDED A	G T:
PUMP OR DEPTH IN	TUBING WELL (feet):	13.0	0	TUBING MATERIAL	CODE: 7	E	11-1-	FIELD-	FILTERED:	Me'	FILTERS	ΖΕ: μm
FIELD DE	CONTAMINATI	ION: PUN	IP · Y	P	TUBING	YN	replaced)	DUPLICATE	Y Y	A	
' SAM	PLE CONTAIN	ER SPECIFIC	ATION		SAMPLE	PRESERVAT	ION		INTEN	DED S	AMPLING	SAMPLE PUMP
SAMPLE ID CODE	CONTAINERS	MATERIAL CODE	VOLUME	PRESERVA	AD	TOTAL VOL DED IN FIELD) (mL)	FINAL pH	ANALYSIS	AND/OR E	CODE	FLOW RATE (mL per minute)
MW-16	3	CB	120ml	HC)		Non	2	-2	82600	Uss F	FPP	4.0
	E.	PB	ZODOML	Hoso	q.			12	FI Pr	1	+17-	143.0
		AB	250mL	Nor	a	V.		NA	2276 CF	HHAND F	PP	10.0
									1			
DELLAS												
REMARK	5;											
MATERIA	AL CODES:	AG = Ambe	r Glass; CG	= Clear Glass	s; PE=1	olyethylene;	PP =	Polypropy	lene; S = Sil	icone; T=T	eflon; O=	Other (Specify)
SAMPLIN	IG EQUIPMEN	T CODES:	APP = After F RFPP = Reve	eristaltic Purr rse Flow Peris	ip; B = staltic Pump	Bailer; BF ; SM = Stra	P = Bladd	ler Pump; od (Tubino	ESP = Ele Gravity Drain)	ctric Submersi	ble Pump; r (Specify)	
NOTES: "	1. The above	e do not con	stitute all of	the Inform	ation requ	ired by Cha	pter 62	-160, F./	1.C,	, _ one		

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212; SECTION 3)

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygén: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

ITE AMOCO # 89 SITE LOCATION:												
WELL NO:	MW-	17	*	SAMPLE	ID:				DATE: 6-	12-15	5	
		4			PURG	ING DA	ГА		F	· P		
WELL DIAMETER WELL VOLI	(iņchęs): 2 IME PURGE;	TUBING DIAMETE	R (inches):	WELL DEP	L SCREEN I TH: fe TH - STA	NTERVAL et to fe	STATIC-I	ER (feet): 7.		RGE PUMP TYP BAILER: `	EPP	
(only fill out i	f applicable)	PGE: 1 FOUR		7.90	feet-	7.25	feet) X	0.16	gallons/fo	ot = 1 - 7	7. gallons	
(only fill out i	if applicable)		MENT YOL.		allons $\pm ($	nallo nallo		ODING LENGIT	1) + FLOW GE		gallons	
INITIAL PUI DEPTH IN V	VELL (feet):	9.00	FINAL PUMP DEPTHIN W	P OR TUBING /ELL (feet):	9.00	PURGIN	G ED AT:/248	PURGING ENDED AT	: 1321	TOTAL VOLU PURGED (ga	IME Ilons): 2.72	
. · Time	VOLUME PURGED (galloris)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP, (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDI (NTUs)	TY CỌĻOR) (describe	ODOR (describe)	
1312	2.0	2.0	0.08	8.14	6.71	30.6	. 405	2.4	1.20	6 Clean	Old Fiel	
1315	0.24	2-24	1	8.14	6.69	30.7	. 405	2.4	1-34	- 11		
1271	1.	248		0.14	6.70	30.7	1205	2.4	1-50			
17Ef		0.10	V	0.14	6-61	20.0	. 405	6-4	1. 4/		VL	
			1			1					· · ·	
WELL CAR	ACITY (Gallor	is Per Foot): ().75" = 0.02;	1 " = 0.04;	1.25" = 0.0)6; 2" = 0.	 16; 3" = 0.37	7; 4" = 0.65;	5" = 1.02;	6"=1.47;	1,2" = 5.88	
PURGING	EQUIPMENT	CODES: B	= Bailer; 1/8" = 0.0	3/16 3P = Bladder	≓ 0.0014; Pump;	1/4" = 0.00 ESP = Electric	26; 5/16" = Submersible F	0.004; 3/8* = Pump: PP =	= 0.006; 1/	$/2^{n} = 0.010;$	5/8" = 0.016 her (Specify)	
					SAM	LING D	ATA					
SAMPLED	el Ro	affiliation:	2	SAMPLER(S	6) SIGNATUR	RE(S):	7).	SÀMPLING INITIATED	ат: <u>132</u>	3 SAMPLIN ENDEDA	G T:	
PUMP OR DEPTH IN	TUBING WELL (feet):	9.00	0	TUBING MATERIAL	CODE:	PE	FIEL	D-FILTERED:	Y A	FILTERS	ZE:μm	
FIELD DE	CONTAMINAT	ION: PUN	IP · Y	P	TUBING	YN	replaced)	DUPLICAT	E: Y	(N)		
• SAM	PLE CONTAIN	ER SPECIFIC	ATION		SAMPLEF	PRESERVATI	оN	ÍNTEN	IDED	SAMPLING	SAMPLE PUMP	
SAMPLE ID CODE	CONTAINERS	MATERIAL CÓDE	VOLUME	PRESERVA USED	ADE	TOTAL VOL	(mL) FINAL	- ANALYSIS MET	HOD ·	CODE	(mL per minute)	
MUL17	3	CM	120ml	HC)		Non	22	82601	voas	RFPP	4.0	
	2	AB	2000m2	Haber			42	FLPre	2	APP	143.0	
	/	AM.	250ml	Nonn		V	NIN	8270()	Allsin)	APP	10.0	
									2			
REMARK	S:										L	
MATERIA	L CODES:	AG≒Ambe	Glass: CG	= Clear Glass	E PE=P	olvethyland	PP = Polyor		ilicone: TH		Other (Specify)	
SAMPLIN	IG EQUIPMEN	T CODES;	APP = After P	eristaltic Pum	ip; B=E	Bailer; BP	= Bladder Pum	ip; ESP=El	ectric Subme	rsible Pump;		
NOTES; 1	. The above	e do not con	stitute all of	se Flow Peris	ation regui	SM = Stra red by Cha	w Method (Tub pter 62-160. 1	Ing Gravity Drain	n); 0 = 01	ther (Specify)		

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212; SECTION 3)

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygén: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

INSTRUMENT CALIBRATION FORMS

Cyclone Instruments 718 W. Princeton Street Orlando, FL 32804 (407) 246-7276

CALIBRATION CERTIFICATE												
YSI Model 556 July of M												
SERVICE DATE:TECHI	VICIAN: 72											
SERIAL #: 5H 1387 A1 6L 1239 AT												
310L101341 8A 1008 18	8A1012 46											
1110K100957 1110K100958	1110K100959											
Calibration Standards Used: Accuracy +/- 1% @ 25 C* LOT #1076 Expiration date: Dec 1, 2015												
Temperature	Response 21.61 C*											
Conductivity 4.49 mS / 1500 uS	Response											
рН 4	Response <u>3.99</u>											
pH 7	Response 7.00											
рН 10	Response											
Dissolved Oxygen 100% ORP	Response <u> </u>											
The calibration results were obtained by followin Calibration Procedures. All measurement standards are calibrated at the NATIONAL INSTITUTE OF STANDAR are measured against certified standards whi Institute of Standards and Technology formed	g the manufactures standard scheduled intervals as prescribed by RDS AND TECHNOLOGY (NIST) or ch are traceable to the National arly the National Bureau of Standards											

(NBS).

APPENDIX E

Facility Name: Address Facility ID

Amoco # 89 305 South Main St, Wildwood 60/8516885

WELL No.		MW-1			MW-2			MW-3			MW-4			MW-5				
DIAMETER	2"			2"				2"			2"			2"		2"		
DEPTH	15.00			12.97			14.10			14.22				18.10		17.90		
SCREE INTERVAL	(6-15)			(3-13)			(5-15)			(4-14)			(4-14)			(4-14)		
STICK UP/FM	FM			FM			FM			FM			FM			FM		
TOC ELEVATION		99.77			99.48			99.68		99.36				99.18		99.12		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
4/15/1994	92.44	7.33		94.23	5.25		91.02	8.66										
8/19/1994	95.19	4.58		97.14	2.34		95.42	4.26										
10/25/1994	95.70	4.07		97.90	1.58		95.75	3.93		95.59	3.77		95.42	3.76		95.24	3.88	
2/22/1995	93.95	5.82		94.72	4.76		94.08	5.60		94.22	5.14		93.98	5.20		93.78	5.34	
4/6/1995	94.01	5.76		95.00	4.48		94.15	5.53		94.32	5.04		94.05	5.13		93.97	5.15	
7/18/2001		Dry		91.18	8.30		85.67	14.01		90.58	8.78		90.09	9.09		N	ot locate	ed
12/24/2002	93.86	5.91		94.20	5.28		93.80	5.88		93.53	5.83		93.31	5.87		N	ot locate	ed
1/10/2006	93.97	5.80		93.82	5.66		93.92	5.76		93.83	5.53		93.81	5.37		Not located		ed
6/12/2015	92.07	7.70		92.39	7.09					92.09	7.27		91.02	8.16				

Facility Name: Address Facility ID

Amoco # 89 305 South Main St, Wildwood 60/8516885

WELL No.		MW-7			MW-8		MW-9			MW-10			MW-11			MW-12		
DIAMETER		2"			2"			2"			2"		2"			2"		
DEPTH	14.00			14.00			14.00			14.00			14.00			14.00		
SCREE INTERVAL	(4-14)			(4-14)				(4-14)			(4-14)			(4-14)			(4-14)	
STICK UP/FM	FM			FM			FM			FM			FM			FM		
TOC ELEVATION		99.59			100.17			100.43			100.88		99.09			98.82		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
4/15/1994																		
8/19/1994																		
10/25/1994	95.50	4.09		93.89	4.41													
2/22/1995	93.90	5.69		93.89	6.28		93.56	6.87		93.58	7.30		93.89	5.20		94.13	4.69	
4/6/1995	93.95	5.64		93.94	6.23		93.64	6.79		92.72	8.16		93.96	5.13		94.24	4.58	
7/18/2001		Dry		N	ot locate	ed	N	ot locate	ed		Dry		90.00	9.09		90.48	8.34	
12/24/2002	93.89	5.70		0) estroye	d	93.87	6.56		93.78	7.10		93.22	5.87		93.54	5.28	
1/10/2006	93.94	5.65		Destroyed		93.61	6.82		94.08	6.80		93.72	5.37		92.91	5.91		
6/12/2015																		

Facility Name: Address Facility ID

Amoco # 89 305 South Main St, Wildwood 60/8516885

WELL No.		MW-13			MW-14			MW-15			MW-16			MW-17			MW-18	
DIAMETER	2"			2"				2"			2"			2"		2"		
DEPTH	14.00			12.00			18.00			18.10			17.90			18.00		
SCREE INTERVAL	(4-14)			(4-12)			(3-18)			(3-18)			(3-17.90)			(3-18)		
STICK UP/FM	FM			FM				FM		FM			FM			FM		
TOC ELEVATION	99.28			101.05				99.72		99.96			99.53			100.08		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
4/15/1994																		
8/19/1994																		
10/25/1994																		
2/22/1995	95.03	4.25																
4/6/1995	95.57	3.71		92.18	8.87													
7/18/2001	91.94	7.34			Dry													
12/24/2002	93.77	5.51		93.71	7.34		93.84	5.88		93.53	6.43		92.00	7.53				
1/10/2006	94.16	5.12		N	ot locate	ed	93.55	6.17		93.80	6.16		93.89	5.64				
6/2/2006																91.79	8.29	
6/12/2015										92.22	7.74		92.28	7.25				

Facility Name: Address Facility ID

Amoco # 89 305 South Main St, Wildwood 60/8516885

WELL No.		MW-19			DMW-1			DMW-2						
DIAMETER	2"			2"			2"							
DEPTH	18.00			28.00			30.00							
SCREE INTERVAL	(3-18)			(23-28)			(25-30)							
STICK UP/FM	FM			FM			FM							
TOC ELEVATION		100.56			99.71			99.46						
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP					
4/15/1994														
8/19/1994														
10/25/1994														
2/22/1995				91.05	8.66									
4/6/1995				91.38	8.33									
7/18/2001				84.93	14.78									
12/24/2002				91.38	8.33		93.58	5.88						
1/10/2006				92.19	7.52		93.29	6.17						
6/2/2006	89.29	11.27												
6/12/2015														

TABLE 4: SUMMARY OF GROUNDWATER ANALYTICAL RESULTSEPA 8260(VOAs), EDB, LEAD, IRON, NITRATE, SULFATE & ORTHO PHOSPHATE

Facility Name:

Amoco # 89

Facility ID#:

60/8516885

Address 305 S. Main St., Wildwood, FL

Sa	mple			Ethyl-	Total							Ortho-
Location	Date	Benzene	Toluene	Benzene	Xylenes	MTBE	EDB	Lead	Iron	Nitrate	Sulfate	phosphate
	4/15/1994	110	14,000	940	8,600	14						
	2/22/1995	320	1,340	1,320	2,860	<20						
	7/18/2001											
MW-1	9/4/2002	<1.0	<1.0	<1.0	<1.0	<10						
	12/24/2002											
	1/10/2006	<0.50	<0.50	<0.50	<1.0	<0.50						
	6/12/2015	0.71U	0.72U	0.69U	1.3U	0.60U	NA	NA	NA	0.052U	8.90	0.014U
	4/15/1994	190	11,000	7,400	35,000	30						
	2/22/1995	<20	40	3,200	13,200	<20						
	4/6/1995											
	7/18/2001	14.7	7.1	1,140	982	<10						
10100-2	9/4/2002	<50	<50	935	385	<250						
	12/24/2002											
	1/11/2006	29.2	6.7	945	150	4.8						
	06/12/15	0.71U	0.72U	0.69U	1.3U	0.60U	0.004U	2.50U	NA	0.052U	4.4	0.014U
	04/15/94	10	260	3,500	14,100	<20						
	10/25/94											
	02/22/95	2	9	940	1,436	4						
	04/06/95											
MW-3	07/18/01											
	09/04/02	<1.0	<1.0	<1.0	<1.0	<10						
	12/24/02											
	01/10/06	<0.50	<0.50	<0.50	<1.0	<0.50						
	06/12/15											
G	CTL	1	40	30	20	20	0.02	15	300	10	250	
NA	ADC	100	400	300	200	200						

TABLE 4: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS EPA 8260(VOAs), EDB, LEAD, IRON, NITRATE, SULFATE & ORTHO PHOSPHATE

Facility Name: Address

305 S. Main St., Wildwood, FL

Sample Ethyl-Total Ortho-Benzene Benzene **Xylenes** MTBE EDB Sulfate Toluene Nitrate phosphate Location Date Lead Iron 10/25/1994 7 45 77 119 <2 2/22/1995 4/6/1995 **MW-7** 7/18/2001 9/4/2002 <1.0 <1.0 <1.0 <1.0 <10 12/24/2002 1/10/2006 <0.50 < 0.50 < 0.50 <1.0 < 0.50 10/25/1994 <10 4,100 1,800 8,100 <20 4/6/1995 7/18/2001 MW-8 9/4/2002 12/24/2002 1/10/2006 Destroyed 4/15/1994 10/25/1994 <20 440 350 2,163 <20 2/22/1995 4/6/1995 **MW-9** 7/18/2001 9/4/2002 <1.0 <1.0 <1.0 <1.0 <10 12/24/2002 1/11/2006 < 0.50 < 0.50 < 0.50 <1.0 < 0.50 GCTL 1 40 30 20 20 0.02 15 300 10 250 NADC 100 400 300 200 200

60/8516885

Amoco # 89

Facility ID#:

TABLE 4: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS EPA 8260(VOAs), EDB, LEAD, IRON, NITRATE, SULFATE & ORTHO PHOSPHATE

Facility Name:Amoco # 89Address305 S. Main St., Wildwood, FL

Sample Ethyl-Total Ortho-**Xylenes** MTBE EDB Sulfate Date Benzene Toluene Benzene Nitrate phosphate Location Lead Iron 4/15/1994 10/25/1994 2/22/1995 <1 <1 <1 <1 2 4/6/1995 MW-10 7/18/2001 9/4/2002 6.9 <1.0 <1.0 <1.0 <10 12/24/2002 1/11/2006 <0.50 < 0.50 < 0.50 <1.0 < 0.50 2/22/1995 <1 <1 4 20 <1 7/18/2001 <1.0 <1.0 <1.0 <3.0 <1.0 9/4/2002 MW-11 <1.0 <1.0 <1.0 <1.0 <10 12/24/2002 1/10/2006 < 0.50 < 0.50 < 0.50 <1.0 < 0.50 2/22/1995 <1 <1 4 11 <1 4/6/1995 7/18/2001 <1.0 <1.0 <1.0 <3.0 <1.0 MW-12 9/4/2002 <1.0 <1.0 <1.0 <1.0 <10 12/24/2002 <0.50 < 0.50 < 0.50 <1.0 < 0.50 1/10/2006 GCTL 1 40 30 20 20 0.02 300 10 250 15 NADC 200 100 400 300 200

Facility ID#: 60/8516885

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EPA 8260(VOAs), EDB, LEAD, IRON, NITRATE, SULFATE & ORTHO PHOSPHATE

Facility Name:

Amoco # 89

Facility ID#: 60/8516885

Address

305 S. Main St., Wildwood, FL

Sa	mple			Ethyl-	Total							Ortho-
Location	Date	Benzene	Toluene	Benzene	Xylenes	MTBE	EDB	Lead	Iron	Nitrate	Sulfate	phosphate
	4/15/1994											
	10/25/1994											
MW-13	2/22/1995	<1	<1	<1	<1	<1						
	4/6/1995											
	7/18/2001	<1.0	<1.0	<1.0	<3.0	<1.0						
	9/4/2002	<1.0	<1.0	<1.0	<1.0	<10						
	12/24/2002											
	1/10/2006	<0.50	<0.50	<0.50	<1.0	<0.50						
	4/15/1994											
	10/25/1994											
	2/22/1995											
MW-14	4/6/1995	<1	<1	<1	<1	<1						
	7/18/2001											
	9/4/2002	<1.0	<1.0	<1.0	<1.0	<10						
	12/24/2002											
	1/10/2006		-		-		Not loca	ted				
	4/15/1994											
	4/6/1995											
	7/18/2001											
10100-12	9/4/2002											
	12/24/2002	<1.0	<1.0	<1.0	<2.0	<5.0						
	1/11/2006	<0.50	<0.50	<0.50	<1.0	<0.50						
G	CTL	1	40	30	20	20	0.02	15	300	10	250	
NA	4DC	100	400	300	200	200						
TABLE 4: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS EPA 8260(VOAs), EDB, LEAD, IRON, NITRATE, SULFATE & ORTHO PHOSPHATE

Facility Name:

Address

305 S. Main St., Wildwood, FL

Sample Ethyl-Total Ortho-**Xylenes** MTBE EDB Sulfate Benzene Toluene Benzene Nitrate phosphate Location Date Lead Iron 4/15/1994 2/22/1995 4/6/1995 7/18/2001 MW-16 9/4/2002 12/24/2002 230 1,820 3,400 9,560 <100 1/11/2006 12 476 25.5 3,640 4,040 06/12/15 8.1 0.72U 0.69U 1.3U 0.60U NA NA NA NA NA NA 4/15/1994 2/22/1995 4/6/1995 7/18/2001 MW-17 9/4/2002 445 12/24/2002 <10.0 <10.0 950 <50.0 19.7 <0.50 1/11/2006 < 0.50 < 0.50 1.5 06/12/15 0.71U 0.72U 51 23 0.60U NA NA NA NA NA NA 06/02/06 < 0.50 < 0.50 < 0.50 <1.0 < 0.50 MW-18 06/02/06 < 0.50 < 0.50 < 0.50 <1.0 < 0.50 MW-19 GCTL 1 40 30 20 20 0.02 15 300 10 250 NADC 200 200 100 400 300

Facility ID#: 60/8516885

Amoco # 89

TABLE 4: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS EPA 8260(VOAs), EDB, LEAD, IRON, NITRATE, SULFATE & ORTHO PHOSPHATE

Facility Name:Amoco # 89Address305 S. Main S

305 S. Main St., Wildwood, FL

Facility ID#: 60/8516885

Sar	mple			Ethyl-	Total							Ortho-
Location	Date	Benzene	Toluene	Benzene	Xylenes	MTBE	EDB	Lead	Iron	Nitrate	Sulfate	phosphate
	4/15/1994											
	2/22/1995	15	4	6	10	300						
	4/6/1995	40	<5	15	40	<5						
DMW-1	7/18/2001	<1.0	<1.0	<1.0	<3.0	35.6						
	9/4/2002	<1.0	<1.0	<1.0	<1.0	36.4						
	12/24/2002											
	1/11/2006	<0.50	<0.50	<0.50	<1.0	<0.50						
	4/15/1994											
	4/6/1995											
	7/18/2001											
DIVIVV-Z	9/4/2002											
	12/24/2002	39.2	2.0	<1.0	4.5	135						
	1/11/2006	6.3	1.3	2.2	3.3	37.1						
	4/15/1994											
	2/22/1995	<1	<1	<1	<1	<1						
	4/6/1995											
CSX-1	7/18/2001											
	9/4/2002											
	12/24/2002											
	1/11/2006											
G	CTL	1	40	30	20	20	0.02	15	300	10	250	
NA	ADC	100	400	300	200	200						

TABLE 4: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS EPA 8260(VOAs), EDB, LEAD, IRON, NITRATE, SULFATE & ORTHO PHOSPHATE

Facility Name:Amoco # 89Facility ID#:60/8516885Address305 S. Main St., Wildwood, FL60/8516885

Sa	mple			Ethyl-	Total	ſ	ſ	ſ	· · · · · · · · · · · · · · · · · · ·		l l	Ortho-
Location	Date	Benzene	Toluene	Benzene	Xylenes	MTBE	EDB	Lead	Iron	Nitrate	Sulfate	phosphate
	4/15/1994											
	10/25/1994											
	2/22/1995	<1	<1	<1	<1	<1	1					
	4/6/1995				ĺ		ĺ				,	
C2V-5	7/18/2001				1		1				1	
	9/4/2002				1		1				1	
	12/24/2002				1		1				,	
	1/11/2006											
G	CTL	1	40	30	20	20	0.02	15	300	10	250	
N/	ADC	100	400	300	200	200						

GCTL = Groundwater Cleanup Target Level

NADC = Natural Attenuation Default Concentration

ug/L = Micrograms per Liter

mg/L = Milligrams per Liter

U = Not Detected Above Specified Detection Limit

NA = Not Analyzed Blank space = No data

NS = Not Sampled

All Analytical Results Reported in ug/L

except Nitrate, Sulfate & Orthophosphate, which are in mg/L

Facility Name:Amoco # 89Address305 S. Main Rd., Wildwood, FLFacility ID#:60/8516885

San	nple	Acononethono	Aconanhthylono	Anthracono	Benzo(a)	Benzo(a)	Benzo(g,h,i)	Benzo(k)	Benzo(b)	Chrysona
Location	Date	Acenaphthene	0.036U	Antinacene	anthracene	pyrene	perylene	fluoranthene	fluoranthene	ChirySelle
NANA/ 1	06/12/15	0.037U	0.036U	0.036U	0.037U	0.043U	0.040U	0.046U	0.059U	0.051U
10100-1										
MM 2	06/12/15	0.097	0.036U	0.036U	0.037U	0.043U	0.040U	0.046U	0.059U	0.051U
10100-2										
	06/12/15	0.037U	0.036	0.036U	0.037U	0.043U	0.040U	0.046U	0.059U	0.051U
10100-4										
	06/12/15	0.037U	0.036U	0.036U	0.037U	0.043U	0.040U	0.046U	0.059U	0.051U
10100-5										
M\\/_16	06/12/15	0.091	0.063	0.036U	0.037U	0.043U	0.040U	0.046U	0.059U	0.051U
10100-10										
M\\/_17	06/12/15	0.39	0.051	0.15	0.037U	0.043U	0.040U	0.046U	0.059U	0.051U
10100-17										
GC	TL	20	210	2,100	0.05	0.2	210	0.5	0.05	4.8
NA	DC	200	2,100	21,000	5	2.0	2,100	50	5	480

GCTL = Groundwater Cleanup Target Levels

NADC = Natural Attenuation Default Concentrations

ug/L = micrograms per liter

mg/L = milligrams per liter

U = Not Detected Above Laboratory Detection Limit

NA = Not Analyzed

NS = Not Sampled

All Analytical Results Reported in ug/L, except for TPH, reported in mg/L

Facility Name: Address

305 S. Main Rd., Wildwood, FL

Facility ID#:

60/8516885

Amoco # 89

Sa	mple	Nanhthalono	1-Methyl-	2-Methyl-	Dibenzo(a,h)	Fluoranthene	Fluorene	Indeno(123-	Phonanthrono	Pyrono	трн
Location	Date	Napitilalene	Naphthalene	Naphthalene	anthracene	Thoranthene	riuorene	cd)pyrene	i nenantirene	i yrene	
	07/18/01										
	09/04/02	<5									
MW-1	12/24/02										
	01/10/06	<0.24									6,000
	06/12/15	0.091	0.047U	0.044U	0.026U	0.051U	0.038U	0.037U	0.039U	0.048U	1.2
	07/18/01	488									
	09/04/02	1,100									
MW-2	12/24/02										
	01/11/06	1,090									10,700
	06/12/15	2.9	1.3	0.60	0.026U	0.051U	0.063	0.037U	0.051	0.048U	0.10U
	07/18/01										
	09/04/02	<5									
MW-3	12/24/02										
	01/10/06	<0.24									1,841
	06/12/15										
	07/18/01	<1.0									
	09/04/02	<5									
MW-4	12/24/02										
	01/10/06	<0.72									<160
	06/12/15	0.27	0.086	0.11	0.026U	0.051U	0.038U	0.037U	0.039U	0.048U	0.10U
	07/18/01	<1.0									
	09/04/02	<5									
MW-5	12/24/02										
	01/10/06	<0.24									<160
	06/12/15	0.11	0.047U	0.044U	0.026U	0.051U	0.038U	0.037U	0.039U	0.048U	0.10U
G	CTL	14	28	28	0.005	280	280	0.05	210	210	210
N/	ADC	140	280	280	0.5	2,800	2,800	5	2,100	2,100	2,100

Facility Name:

Amoco # 89

Facility ID#:

60/8516885

Address

305 S. Main Rd., Wildwood, FL

Sa	mple	Nanhthalono	1-Methyl-	2-Methyl-	Dibenzo(a,h)	Eluoranthono	Eluoropo	Indeno(123-	Phononthrono	Durono	трц
Location	Date	Napittialelle	Naphthalene	Naphthalene	anthracene	Fluorantinene	Fluorene	cd)pyrene	Filenantinene	Fyrene	IFN
	07/18/01										
	09/04/02										
MW-6	12/24/02										
	01/10/06					Not located					
	06/12/15										
	07/18/01										
	09/04/02	<5									
MW-7	12/24/02										
	01/10/06	<0.24									1,130
	06/12/15										
	07/18/01										
	09/04/02										
MW-8	12/24/02					Destroyed					
	01/10/06										
	06/12/15										
	07/18/01										
	09/04/02	<5									
MW-9	12/24/02										
	01/11/06	<0.24									<170
	06/12/15										
	07/18/01										
	09/04/02	<5									
MW-10	12/24/02										
	01/11/06	<0.24									1,110
	06/12/15										
G	CTL	14	28	28	0.005	280	280	0.05	210	210	210
NA	ADC	140	280	280	0.5	2,800	2,800	5	2,100	2,100	2,100

Facility Name:

Amoco # 89

Facility ID#:

60/8516885

Address

305 S. Main Rd., Wildwood, FL

Sa	mple	Nanhthalana	1-Methyl-	2-Methyl-	Dibenzo(a,h)	Eluoranthana	Eluoropo	Indeno(123-	Phononthrono	Durono	трц
Location	Date	Naphthalene	Naphthalene	Naphthalene	anthracene	Fluoranthene	Fluorene	cd)pyrene	Phenanthrene	Pyrene	IFN
	07/18/01	<1.0									
	09/04/02	<5									
MW-11	12/24/02										
	01/10/06	<0.24									1,821
	06/12/15										
	07/18/01	<1.0									
	09/04/02	<5									
MW-12	12/24/02										
	01/10/06	<0.24									<160
	06/12/15										
	07/18/01	<1.0									
	09/04/02	<5									
MW-13	12/24/02										
	01/10/06	<0.24									<160
	06/12/15										
	07/18/01										
	09/04/02	<5									
MW-14	12/24/02										
	01/10/06										
	06/12/15										
	07/18/01										
	09/04/02										
MW-15	12/24/02	<1.0									
	01/11/06	<0.24									2,090
	06/12/15										
G	CTL	14	28	28	0.005	280	280	0.05	210	210	210
N/	ADC	140	280	280	0.5	2,800	2,800	5	2,100	2,100	2,100

Facility Name:

Amoco # 89

Facility ID#:

60/8516885

Address

305 S. Main Rd., Wildwood, FL

Sa	mple	Nanhthalana	1-Methyl-	2-Methyl-	Dibenzo(a,h)	Elucronthono	Eluorono	Indeno(123-	Phononthrono	Duropo	трц
Location	Date	Naphthalene	Naphthalene	Naphthalene	anthracene	Fluoranthene	Fluorene	cd)pyrene	Filenantifiene	Fyrene	IFN
	07/18/01										
	09/04/02										
MW-16	12/24/02										
	01/11/06										
	06/12/15	11	1.8	1.0	0.026U	0.051U	0.038U	0.037U	0.057	0.048U	0.47
	07/18/01										
	09/04/02										
MW-17	12/24/02	1,000									
	01/11/06	1,070									15,500
	06/12/15	37	9.5	11	0.026U	0.063	0.34	0.037U	0.039U	0.048U	0.19
N/I\A/ 10	06/02/06	<0.25									3,880
10100-10											
NANA/ 10	06/02/06	<0.26									1,360
10100-19											
	07/18/01	14.3									
	09/04/02	<5									
DMW-1	12/24/02										
	01/10/06	<0.24									270
	06/12/15										
	07/18/01										
	09/04/02										
DMW-2	12/24/02	<1.0									
	01/11/06	0.621									2,540
	06/12/15										
G	CTL	14	28	28	0.005	280	280	0.05	210	210	210
NA	ADC	140	280	280	0.5	2,800	2,800	5	2,100	2,100	2,100

Facility Name: Address Amoco # 89 305 S. Main Rd., Wildwood, FL

Sa	mple	Nanhthalono	1-Methyl-	2-Methyl-	Dibenzo(a,h)	Eluoranthono	Eluorene	Indeno(123-	Phononthrono	Dyrono	трц
Location	Date	Napittialene	Naphthalene	Naphthalene	anthracene	Tuorantinene	i luorene	cd)pyrene	rnenantinene	ryrene	1111
	07/18/01										
	09/04/02										
CSX-1	12/24/02										
	01/11/06										
	06/12/15										
	07/18/01										
	09/04/02										
CSX-2	12/24/02										
	01/11/06										
	06/12/15										
G	CTL	14	28	28	0.005	280	280	0.05	210	210	210
N/	ADC	140	280	280	0.5	2,800	2,800	5	2,100	2,100	2,100

GCTL = Groundwater Cleanup Target Levels

NADC = Natural Attenuation Default Concentrations

ug/L = micrograms per liter

mg/L = milligrams per liter

U = Not Detected Above Laboratory Detection Limit

NA = Not Analyzed

Facility ID#:

NS = Not Sampled

All Analytical Results Reported in ug/L, except for TPH, reported in mg/L

60/8516885



10775 Central Port Drive Orlando FL, 32824 Phone: 407.826.5314 FAX: 407.850.6945

Tuesday, June 23, 2015 Andreyev Engineering (AN015) Attn: Rob Cornelius 1170 W. Minneola Avenue Clermont, FL 34711

RE: Laboratory Results for Project Number: [none], Project Name/Desc: Amoco #89 ENCO Workorder(s): A503546

Dear Rob Cornelius,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, June 12, 2015.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Orlando. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Ronald Wambles For David Camacho Project Manager Enclosure(s)



SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-2		Lab ID:	A503546-0	1 Samp	led: 06/12/15	10:29	Received: 06/12/15 16:13
Parameter	Hold Date/Time	<u>e(s)</u>	<u>P</u> 1	rep Date/Time(s	<u>i)</u>	Analysis Date/	<u>Time(s)</u>
EPA 300.0	06/14/15 10:	29	06	5/12/15 14:13		06/12/15 16:45	
EPA 300.0	07/10/15		06	5/12/15 14:13		06/12/15 16:45	
EPA 365.3	06/14/15 10:	29	06	5/13/15 13:15		06/13/15 13:40	
EPA 6010C	12/09/15		06	5/15/15 09:28		06/16/15 11:44	
EPA 8011	06/26/15	06/30/15	06	5/16/15 07:44		06/16/15 14:11	
EPA 8270D	06/19/15	07/26/15	06	5/16/15 14:15		06/18/15 20:02	
Client ID: MW-2		Lab ID:	A503546-0	1RE1 Samp	led: 06/12/15	10:29	Received: 06/12/15 16:13
Parameter	Hold Date/Time	<u>e(s)</u>	<u>P</u> 1	rep Date/Time(s	<u>5)</u>	Analysis Date/	<u>Time(s)</u>
EPA 8260B	06/26/15		06	5/16/15 00:00		06/16/15 11:36	
FL-PRO	06/19/15	07/29/15	06	5/19/15 05:25		06/19/15 12:43	
Client ID: MW-16		Lab ID:	A503546-02	2 Samp	led: 06/12/15	11:28	Received: 06/12/15 16:13
Parameter	Hold Date/Time	<u>e(s)</u>	<u>Pi</u>	rep Date/Time(s	<u>5)</u>	Analysis Date/	<u>Time(s)</u>
EPA 8270D	06/19/15	07/26/15	06	5/16/15 14:15		06/18/15 20:23	
Client ID: MW-16		Lab ID:	A503546-02	2RE1 Samp	led: 06/12/15	11:28	Received: 06/12/15 16:13
Parameter	Hold Date/Time	e(s)	<u>Pi</u>	rep Date/Time(5)	Analysis Date/	Time(s)
EPA 8260B	06/26/15		06	5/16/15 00:00		06/16/15 12:06	
FL-PRO	06/19/15	07/29/15	06	5/19/15 05:25		06/19/15 13:15	
Client ID: MW-1		Lab ID:	A503546-03	3 Samp	led: 06/12/15	12:24	Received: 06/12/15 16:13
<u>Parameter</u>	Hold Date/Time	<u>e(s)</u>	<u>Pi</u>	rep Date/Time(s	<u>i)</u>	Analysis Date/	<u>Time(s)</u>
EPA 300.0	06/14/15 12:	24	06	5/12/15 14:13		06/12/15 20:14	
EPA 300.0	07/10/15		06	5/12/15 14:13		06/12/15 20:14	
EPA 365.3	06/14/15 12:	24	06	5/13/15 13:15		06/13/15 13:40	
EPA 8260B	06/26/15		06	5/16/15 00:00		06/16/15 16:12	
EPA 8270D	06/19/15	07/26/15	06	5/16/15 14:15		06/18/15 20:45	
Client ID: MW-1		Lab ID:	A503546-03	3RE1 Samp	led: 06/12/15	12:24	Received: 06/12/15 16:13
Parameter	Hold Date/Time	e <u>(s)</u>	<u>P</u> 1	rep Date/Time(s	<u>5)</u>	Analysis Date/	<u>Time(s)</u>
FL-PRO	06/19/15	07/29/15	06	5/19/15 05:25		06/19/15 13:46	
Client ID: MW-17		Lab ID:	A503546-04	4 Samp	led: 06/12/15	13:23	Received: 06/12/15 16:13
Parameter	Hold Date/Time	<u>e(s)</u>	<u>Pi</u>	rep Date/Time(s	<u>5)</u>	Analysis Date/	<u>Time(s)</u>
EPA 8260B	06/26/15		06	5/16/15 00:00		06/16/15 16:43	
EPA 8270D	06/19/15	07/26/15	06	5/16/15 14:15		06/18/15 21:06	
Client ID: MW-17		Lab ID:	A503546-04	4RE1 Samp	led: 06/12/15	13:23	Received: 06/12/15 16:13
<u>Parameter</u>	Hold Date/Time	<u>e(s)</u>	<u>P</u> 1	rep Date/Time(s	<u>5)</u>	Analysis Date/	<u>Time(s)</u>
EPA 8270D	06/19/15	07/26/15	06	5/16/15 14:15		06/22/15 15:10	
FL-PRO	06/19/15	07/29/15	06	5/19/15 05:25		06/19/15 14:49	
Client ID: MW-4		Lab ID:	A503546-0	5 Samp	led: 06/12/15	14:10	Received: 06/12/15 16:13
<u>Parameter</u>	Hold Date/Time	e <u>(s)</u>	<u>P</u> 1	rep Date/Time(s	<u>5)</u>	Analysis Date/	<u>Time(s)</u>
EPA 8260B	06/26/15		06	5/16/15 00:00		06/16/15 17:14	
EPA 8270D	06/19/15	07/26/15	06	5/16/15 14:15		06/18/15 21:27	
Client ID: MW-4		Lab ID:	A503546-0	5RE1 Samp	led: 06/12/15	14:10	Received: 06/12/15 16:13
Parameter	Hold Date/Time	e(s)	Pi	rep Date/Time(s	<u>5)</u>	Analysis Date/	Time(s)
FL-PRO	06/19/15	07/29/15	06	5/19/15 05:25		06/19/15 15:20	
Client ID: MW-5		Lab ID:	A503546-0	6 Samp	led: 06/12/15	14:51	Received: 06/12/15 16:13
Parameter	Hold Date/Time	e(s)	<u>Pi</u>	rep Date/Time(s	<u>;)</u>	Analysis Date/	Time(s)
EPA 8260B	06/26/15		06	5/16/15 00:00		06/16/15 17:44	
EPA 8270D	06/19/15	07/26/15	06	5/16/15 14:15		06/18/15 21:49	



SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-5		Lab ID:	A503546-06RE1	Sampled:	06/12/15 14:51	Received: 06/12/15 16:13
Parameter	Hold Date/Time(s)		Prep Date/	'Time(s)	<u>Analysis Date/</u>	<u>Time(s)</u>
FL-PRO	06/19/15	07/29/15	06/19/15	05:25	06/19/15 15:52	



SAMPLE DETECTION SUMMARY

Client ID: MW-2			Lab ID:	A503546-01			
<u>Analyte</u>	<u>Results</u>	Flag	<u>MDL</u>	PQL	<u>Units</u>	Method	Notes
1-Methylnaphthalene	1.3	_	0.047	0.10	ug/L	EPA 8270D	
2-Methylnaphthalene	0.60		0.044	0.10	ug/L	EPA 8270D	
Acenaphthene	0.097	Ι	0.037	0.10	ug/L	EPA 8270D	
Fluorene	0.063	Ι	0.038	0.10	ug/L	EPA 8270D	J-02
Naphthalene	2.9		0.035	0.10	ug/L	EPA 8270D	
Phenanthrene	0.051	Ι	0.039	0.10	ug/L	EPA 8270D	
Sulfate	4.4	Ι	0.07	5.0	mg/L	EPA 300.0	
Client ID: MW-16			Lab ID:	A503546-02			
Analyte	<u>Results</u>	<u>Flag</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Notes</u>
1-Methylnaphthalene	1.8		0.047	0.10	ug/L	EPA 8270D	
2-Methylnaphthalene	1.0		0.044	0.10	ug/L	EPA 8270D	
Acenaphthene	0.091	Ι	0.037	0.10	ug/L	EPA 8270D	
Acenaphthylene	0.063	Ι	0.036	0.10	ug/L	EPA 8270D	
Naphthalene	11		0.035	0.10	ug/L	EPA 8270D	
Phenanthrene	0.057	Ι	0.039	0.10	ug/L	EPA 8270D	
Client ID: MW-16			Lab ID:	A503546-02RE1			
Analyte	<u>Results</u>	<u>Flag</u>	<u>MDL</u>	PQL	<u>Units</u>	<u>Method</u>	<u>Notes</u>
Benzene	8.1		0.71	1.0	ug/L	EPA 8260B	
TPH (C8-C40)	0.47		0.10	0.17	mg/L	FL-PRO	
Client ID: MW-1			Lab ID:	A503546-03			
Analyte	Results	Flag	MDL	PQL	<u>Units</u>	Method	Notes
Naphthalene	0.091	Ι	0.035	0.10	ug/L	EPA 8270D	
Sulfate	8.9		0.07	5.0	mg/L	EPA 300.0	
Client ID: MW-1			Lab ID:	A503546-03RE1			
Analyte	Results	Flag	MDL	PQL	<u>Units</u>	Method	Notes
Analyte TPH (C8-C40)	<u>Results</u> 1.2	<u>Flag</u>	<u>MDL</u> 0.10	<u>PQL</u> 0.17	<u>Units</u> mg/L	<u>Method</u> FL-PRO	<u>Notes</u>
Analyte TPH (C8-C40) Client ID: MW-17	<u>Results</u> 1.2	<u>Flag</u>	<u>MDL</u> 0.10 Lab ID:	<u>PQL</u> 0.17 A503546-04	<u>Units</u> mg/L	<u>Method</u> FL-PRO	<u>Notes</u>
Analyte TPH (C8-C40) Client ID: MW-17 Analyte	<u>Results</u> 1.2 <u>Results</u>	<u>Flag</u> <u>Flag</u>	<u>MDL</u> 0.10 Lab ID: <u>MDL</u>	PQL 0.17 A503546-04 PQL	<u>Units</u> mg/L <u>Units</u>	<u>Method</u> FL-PRO <u>Method</u>	<u>Notes</u> <u>Notes</u>
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene	<u>Results</u> 1.2 <u>Results</u> 9.5	<u>Flag</u> <u>Flag</u>	<u>MDL</u> 0.10 Lab ID: <u>MDL</u> 0.047	PQL 0.17 A503546-04 PQL 0.10	<u>Units</u> mg/L <u>Units</u> ug/L	<u>Method</u> FL-PRO <u>Method</u> EPA 8270D	<u>Notes</u> <u>Notes</u>
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene	<u>Results</u> 1.2 <u>Results</u> 9.5 11	<u>Flag</u> <u>Flag</u>	<u>MDL</u> 0.10 Lab ID: <u>MDL</u> 0.047 0.044	PQL 0.17 A503546-04 PQL 0.10 0.10	Units mg/L Units ug/L ug/L	Method FL-PRO EPA 8270D EPA 8270D	<u>Notes</u> <u>Notes</u>
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene	Results 1.2 Results 9.5 11 0.39	<u>Flag</u> <u>Flag</u>	<u>MDL</u> 0.10 Lab ID: 0.047 0.044 0.037	PQL 0.17 A503546-04 0.10 0.10 0.10 0.10	Units mg/L Units ug/L ug/L ug/L	Method FL-PRO EPA 8270D EPA 8270D EPA 8270D	<u>Notes</u>
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene	Results 1.2 9.5 11 0.39 0.051	<u>Flag</u> <u>Flag</u> I	<u>MDL</u> 0.10 Lab ID: 0.047 0.037 0.036	PQL 0.17 A503546-04 0.10 0.10 0.10 0.10 0.10	Units mg/L Units ug/L ug/L ug/L ug/L	Method FL-PRO EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D	<u>Notes</u>
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene	Results 1.2 <u>Results</u> 9.5 11 0.39 0.051 0.15 0.15	<u>Flag</u> <u>Flag</u> I	<u>MDL</u> 0.10 Lab ID: <u>MDL</u> 0.047 0.044 0.037 0.036 0.036	PQL 0.17 A503546-04 0.10 0.10 0.10 0.10 0.10 0.10	Units mg/L Units ug/L ug/L ug/L ug/L ug/L	Method FL-PRO EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D	<u>Notes</u>
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Ethylbenzene	Results 1.2 <u>Results</u> 9.5 11 0.39 0.051 0.15 51 2.5 2.5 2.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3	<u>Flag</u> <u>Flag</u> I	<u>MDL</u> 0.10 Lab ID: 0.047 0.044 0.037 0.036 0.036 0.036	PQL 0.17 A503546-04 0.10 0.10 0.10 0.10 0.10 0.10 1.0 0.20	Units mg/L Ug/L ug/L ug/L ug/L ug/L ug/L ug/L	Method FL-PRO EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D	<u>Notes</u>
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Athracene Ethylbenzene Fluoranthene	Results 1.2 <u>Results</u> 9.5 11 0.39 0.051 0.15 51 0.063 0.21	Flag Flag I	MDL 0.10 Lab ID: 0.047 0.047 0.037 0.036 0.036 0.036 0.059 0.051	PQL 0.17 A503546-04 0.10 0.10 0.10 0.10 0.10 1.0 0.10 1.0 0.10	Units mg/L Ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	Method FL-PRO EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8260B EPA 8260B	<u>Notes</u>
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Acenaphthylene Athracene Ethylbenzene Fluoranthene Fluorene	Results 1.2 <u>Results</u> 9.5 11 0.39 0.051 0.15 51 0.063 0.34 24	Flag Flag I	MDL 0.10 Lab ID: 0.047 0.044 0.037 0.036 0.036 0.051 0.031	PQL 0.17 A503546-04 PQL 0.10 0.10 0.10 0.10 0.10 1.0 0.10 0.10	Units mg/L Ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L u	Method FL-PRO EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D	Notes Notes
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Accenaphthylene Anthracene Ethylbenzene Fluoranthene Fluorene m,p-Xylenes	Results 1.2 <u>Results</u> 9.5 11 0.39 0.051 0.15 51 0.063 0.34 21 1.0	Flag Flag I	<u>MDL</u> 0.10 Lab ID: <u>MDL</u> 0.047 0.044 0.037 0.036 0.036 0.051 0.038 1.3 0.57	PQL 0.17 A503546-04 PQL 0.10 0.10 0.10 0.10 1.0 0.10 0.10 0.10	Units mg/L Units ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	Method FL-PRO EPA 8270D EPA 8260B EPA 8270D EPA 8270D	<u>Notes</u> J-02
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Ethylbenzene Fluoranthene Fluorene m,p-Xylenes o-Xylene	Results 1.2 9.5 11 0.39 0.051 0.15 51 0.063 0.34 21 1.8 22	Flag Flag I	<u>MDL</u> 0.10 Lab ID: <u>MDL</u> 0.047 0.044 0.037 0.036 0.036 0.036 0.038 1.3 0.53 1.3	PQL 0.17 A503546-04 POL 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.1	Units mg/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L u	Method FL-PRO EPA 8270D EPA 8260B EPA 8270D EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	Notes Notes
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Ethylbenzene Fluoranthene Fluorene m,p-Xylenes o-Xylene Xylenes (Total)	Results 1.2 9.5 11 0.39 0.051 0.15 51 0.063 0.34 21 1.8 23	Flag Flag I	<u>MDL</u> 0.10 Lab ID: 0.047 0.044 0.037 0.036 0.036 0.036 0.036 0.051 0.038 1.3 0.53 1.3	PQL 0.17 A503546-04 PQL 0.10 0.10 0.10 0.10 0.10 1.0 0.10 0.10	Units mg/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L u	Method FL-PRO EPA 8270D EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	<u>Notes</u> J-02
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Acenaphthylene Anthracene Ethylbenzene Fluoranthene Fluoranthene Fluorene m,p-Xylenes o-Xylene Xylenes (Total) Client ID: MW-17	Results 1.2 Results 9.5 11 0.39 0.051 0.15 51 0.063 0.34 21 1.8 23	Flag Flag I I	<u>MDL</u> 0.10 Lab ID: <u>MDL</u> 0.047 0.044 0.037 0.036 0.036 0.036 0.051 0.038 1.3 0.53 1.3 U.Sab ID:	PQL 0.17 A503546-04 PQL 0.10 0.10 0.10 0.10 0.10 1.0 0.10 0.10	Units mg/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L u	Method FL-PRO EPA 8270D EPA 8260B EPA 8270D EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	Notes Notes
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Ethylbenzene Fluoranthene Fluorene m,p-Xylenes o-Xylene Xylenes (Total) Client ID: MW-17	Results 1.2 Results 9.5 11 0.39 0.051 0.15 51 0.063 0.34 21 1.8 23	Flag Flag I I	<u>MDL</u> 0.10 Lab ID: 0.047 0.044 0.037 0.036 0.036 0.036 0.036 0.038 1.3 0.53 1.3 0.53 1.3 ULAB ID: <u>MDL</u> 0.18	PQL 0.17 A503546-04 PQL 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 1.0 0.10 2.0 1.0 2.0 1.0 2.0 5.0	Units mg/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L u	Method FL-PRO PA 8270D EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	Notes Notes
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Ethylbenzene Fluoranthene Fluorene m,p-Xylenes o-Xylene Xylenes (Total) Client ID: MW-17 Analyte Naphthalene	Results 1.2 Results 9.5 11 0.39 0.051 0.15 51 0.063 0.34 21 1.8 23	Flag Flag I I	<u>MDL</u> 0.10 Lab ID: 0.047 0.044 0.037 0.036 0.036 0.036 0.036 0.038 1.3 0.53 1.3 0.53 1.3 U.53 1.3 0.53 1.3	PQL 0.17 A503546-04 PQL 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 1.0 0.10 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 0.10	Units mg/L ug/L	Method FL-PRO PA 8270D EPA 8260B	Notes Notes
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Acenaphthylene Anthracene Ethylbenzene Fluoranthene Fluoranthene Fluorene m,p-Xylenes o-Xylene Xylenes (Total) Client ID: MW-17 Analyte Naphthalene TPH (C8-C40)	Results 1.2 Results 9.5 11 0.39 0.051 0.15 51 0.063 0.34 21 1.8 23	Flag Flag I I	<u>MDL</u> 0.10 Lab ID: <u>MDL</u> 0.047 0.047 0.037 0.036 0.036 0.036 0.036 0.051 0.038 1.3 0.53 1.3 0.53 1.3 0.53 1.3 0.53 1.3	PQL 0.17 A503546-04 PQL 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 1.0 2.0 1.0 2.0 1.0 2.0 503546-04RE1 0.50 0.17	Units mg/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L u	Method FL-PRO PA 8270D EPA 8260B	Notes Notes
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene 2-Methylnaphthalene Acenaphthylen	Results 1.2 Results 9.5 11 0.39 0.051 0.15 51 0.063 0.34 21 1.8 23 Results 37 0.19	Flag I I Flag	 MDL 0.10 Lab ID: MDL 0.047 0.044 0.037 0.036 0.036 0.038 1.3 0.53 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.4 1.5 1.4 <	PQL 0.17 A503546-04 PQL 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 <	Units mg/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L u	Method FL-PRO EPA 8270D EPA 8260B	Notes Notes J-02 Notes
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Ethylbenzene Fluoranthene Pluorene m,p-Xylenes o-Xylene Xylenes (Total) Client ID: MW-17 Analyte Naphthalene TPH (C8-C40) Client ID: MW-4	Results 1.2 Results 9.5 11 0.39 0.051 0.15 51 0.063 0.34 21 1.8 23 Results 37 0.19 Results 0.086	Flag Flag I Flag Flag	<u>MDL</u> 0.10 Lab ID: <u>MDL</u> 0.047 0.037 0.036 0.036 0.036 0.036 0.031 0.038 1.3 0.53 1.5 0 0.00 1.5 0 0.00 1.5 0 0.00 1.5 0 0.00 1.5 0 0.00 1.5 0 0.00 1.5 0 0.00 1.5 0 0.00 1.5 0.00 1.5 0 0.00 1.5 0.00 1.	PQL 0.17 A503546-04 POL 0.10	Units mg/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L u	Method FL-PRO EPA 8270D EPA 8260B EPA 8270D FL-PRO Method EPA 8270D	Notes Notes J-02 Notes Notes
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Ethylbenzene Fluoranthene Fluorene m,p-Xylenes o-Xylene Xylenes (Total) Client ID: MW-17 Analyte Naphthalene TPH (C8-C40) Client ID: MW-4 Analyte 1-Methylnaphthalene 2-Methylnaphthalene 2-Methylnaphthalene	Results 1.2 Results 9.5 11 0.39 0.051 0.15 51 0.063 0.34 21 1.8 23 Results 37 0.19 Results 0.086 0.11	Flag I I Flag Flag I	 MDL 0.10 Lab ID: MDL 0.047 0.044 0.037 0.036 0.036 0.036 0.031 0.038 1.3 0.53 1.3 0.54 	PQL 0.17 A503546-04 PQL 0.10	Units mg/L ug/L	Method FL-PRO EPA 8270D EPA 8260B EPA 8270D FL-PRO Method EPA 8270D EPA 8270D	Notes Notes Notes Notes
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Ethylbenzene Fluoranthene Naphthalene Vylenes o-Xylene Xylenes (Total) Client ID: MW-17 Analyte Naphthalene TPH (C8-C40) Client ID: MW-4 Analyte 1-Methylnaphthalene 2-Methylnaphthalene	Results 1.2 Results 9.5 11 0.39 0.051 0.15 51 0.063 0.34 21 1.8 23 Results 37 0.19 Results 0.086 0.11 0.27	Flag I I Flag Elag I	<u>MDL</u> 0.10 Lab ID: 0.047 0.044 0.037 0.036 0.036 0.036 0.031 0.038 1.3 0.53 1.5 0.53 1.5 0.53 1.5 0.53 1.5 0.53 1.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	PQL 0.17 A503546-04 PQL 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 2.0 A503546-04RE1 A503546-05 PQL 0.10 0.10 0.10	Units mg/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L u	Method FL-PRO EPA 8270D EPA 8260B EPA 8270D FL-PRO Method EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D	Notes Notes Notes Notes
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Thylene MW-17 Analyte Naphthalene TPH (C8-C40) Client ID: MW-4 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthale	Results 1.2 Results 9.5 11 0.39 0.051 0.15 51 0.063 0.34 21 1.8 23 Results 37 0.19 Results 0.086 0.11 0.27	Flag I I Flag Flag I	 MDL 0.10 Lab ID: MDL 0.047 0.044 0.037 0.036 0.036 0.036 0.036 0.031 1.3 0.53 1.3 0.16 0.16	PQL 0.17 A503546-04 PQL 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 0.10 0.10 0.10 0.10 0.10	Units mg/L ug/L	Method FL-PRO PA 8270D EPA 8260B EPA 8270D FL-PRO Method EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D	Notes J-02 Notes Notes
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Ethylbenzene Fluoranthene Np-Xylenes o-Xylene Xylenes (Total) Client ID: MW-17 Analyte Naphthalene TPH (C8-C40) Client ID: MW-4 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Client ID: MW-4	Results 1.2 Results 9.5 11 0.39 0.051 0.15 51 0.063 0.34 21 1.8 23 Results 37 0.19 Results 0.086 0.11 0.27	Flag I I Flag Flag I	 MDL 0.10 Lab ID: MDL 0.047 0.047 0.036 0.036 0.036 0.036 0.031 0.031 1.3 0.53 1.3 0.54 0.047 0.044 0.035 Lab ID: 	PQL 0.17 A503546-04 PQL 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 0.10 0.50 0.17 A503546-05 A503546-06	Units mg/L ug/L ug/L	Method FL-PRO EPA 8270D EPA 8260B EPA 8270D FL-PRO Method EPA 8270D	Notes Notes Notes Notes
Analyte TPH (C8-C40) Client ID: MW-17 Analyte 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Ethylbenzene Fluoranthene Fluoranthene Fluoranthene Fluorene m,p-Xylenes o-Xylene Xylenes (Total) Client ID: MW-17 Analyte Naphthalene TPH (C8-C40) Client ID: MW-4 Analyte 1-Methylnaphthalene 2-Methylnaphthalene 2-Methylnaphthalene Naphthalene Client ID: MW-5 Analyte Naphthalene	Results 1.2 Results 9.5 11 0.39 0.051 0.15 51 0.063 0.34 21 1.8 23 Results 0.19 Results 0.086 0.11 0.27	Flag I I Flag Flag I	 MDL 0.10 Lab ID: MDL 0.047 0.047 0.036 0.036 0.036 0.036 0.036 0.031 0.038 1.3 0.53 1.3 0.038 1.3 0.53 1.4 0.16 0.047 0.044 0.035 1.4 0.035 	PQL 0.17 A503546-04 PQL 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 0.10 0.50 0.10 0.10 0.10 0.10 0.10 0.10	Units mg/L ug/L	Method FL-PRO PA 8270D EPA 8260B EPA 8270D FL-PRO Method EPA 8270D EPA 8270D	Notes Notes Notes Notes Notes Notes



			ANALYT	ICAL R	ESULT	s					
Description: MW-2			Li	ab Samp	le ID:A	503546-0)1		Received: 06	/12/15 1	6:13
Matrix: Ground Water				San	npled:0	6/12/15 1	L0:29		Work Order: A5	03546	
Project: Amoco #89				Sample	ed By:⊮	liguel Roc	lriguez				
	IC EP21921										
Analyte [CAS Number]	Results	Flag	Units	DF	MDI	POI	Batch	Method	Analyzed	Bv	Notes
Benzene [71-43-2]^	0.71	<u>1109</u>	ua/l	1	0.71	10	5E16020	FPA 8260B	06/16/15 11:36	141	Hotes
Ethylbenzene [100-41-4]^	0.69		ug/L	1	0.69	1.0	5F16020	EPA 8260B	06/16/15 11:36	141	
m p-Xylenes [108-38-3/106-42-3]^	1 3		ug/L	1	13	2.0	5F16020	EPA 8260B	06/16/15 11:36	141	
Methyl-tert-Butyl Ether [1634-04-4]^	0.60		ug/L	1	0.60	1.0	5F16020	EPA 8260B	06/16/15 11:36	1/1	
o-Yvlene [05-47-6]^	0.53		ug/L	1	0.00	1.0	5F16020	EPA 8260B	06/16/15 11:36	1/1	
Toluono [108-88-3]A	0.55		ug/L	1	0.55	1.0	5E16020	EDA 9260B	06/16/15 11:30	141	
Xvlenes (Total) [1330-20-7]^	13	11	ug/L	1	13	2.0	5F16020	EPA 8260B	06/16/15 11:36	141	
	1.5	Ū	49/L	-	115	2.0	51 10020	217102000	00,10,13 11.30	5/0	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Re</u>	<u>c Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	Notes
4-Bromofluorobenzene	47	1	50.0	94 %	41	142	5F16020	EPA 8260B	06/16/15 11:36	JAJ	
Dibromofluoromethane	44	1	50.0	88 %	53-	146	5F16020	EPA 8260B	06/16/15 11:36	JAJ	
Toluene-d8	46	1	50.0	92 %	41	146	5F16020	EPA 8260B	06/16/15 11:36	JAJ	
Semivolatile Organic Com	pounds by G	icms s	SIM								
^ - ENCO Orlando certified analyte [NELA	IC E83182]										
Analyte [CAS Number]	<u>Results</u>	Flag	<u>Units</u>	DF	MDL	<u>PQL</u>	Batch	<u>Method</u>	Analyzed	<u>By</u>	<u>Notes</u>
1-Methylnaphthalene [90-12-0]^	1.3		ug/L	1	0.047	0.10	5F16019	EPA 8270D	06/18/15 20:02	jfi	
2-Methylnaphthalene [91-57-6]^	0.60		ug/L	1	0.044	0.10	5F16019	EPA 8270D	06/18/15 20:02	jfi	
Acenaphthene [83-32-9]^	0.097	I	ug/L	1	0.037	0.10	5F16019	EPA 8270D	06/18/15 20:02	jfi	
Acenaphthylene [208-96-8]^	0.036	U	ug/L	1	0.036	0.10	5F16019	EPA 8270D	06/18/15 20:02	jfi	
Anthracene [120-12-7]^	0.036	U	ug/L	1	0.036	0.10	5F16019	EPA 8270D	06/18/15 20:02	jfi	
Benzo(a)anthracene [56-55-3]^	0.037	U	ug/L	1	0.037	0.10	5F16019	EPA 8270D	06/18/15 20:02	jfi	
Benzo(a)pyrene [50-32-8]^	0.043	U	ug/L	1	0.043	0.10	5F16019	EPA 8270D	06/18/15 20:02	jfi	
Benzo(b)fluoranthene [205-99-2]^	0.059	U	ug/L	1	0.059	0.10	5F16019	EPA 8270D	06/18/15 20:02	jfi	
Benzo(g,h,i)perylene [191-24-2]^	0.040	U	ug/L	1	0.040	0.10	5F16019	EPA 8270D	06/18/15 20:02	jfi	
Benzo(k)fluoranthene [207-08-9]^	0.046	U	ug/L	1	0.046	0.10	5F16019	EPA 8270D	06/18/15 20:02	jfi	
Chrysene [218-01-9]^	0.051	U	ug/L	1	0.051	0.10	5F16019	EPA 8270D	06/18/15 20:02	jfi	
Dibenzo(a,h)anthracene [53-70-3]^	0.026	U	ug/L	1	0.026	0.10	5F16019	EPA 8270D	06/18/15 20:02	jfi	
Fluoranthene [206-44-0]^	0.051	U	ug/L	1	0.051	0.10	5F16019	EPA 8270D	06/18/15 20:02	jfi	
Fluorene [86-73-7]^	0.063	I	ug/L	1	0.038	0.10	5F16019	EPA 8270D	06/18/15 20:02	jfi	J-02
Indeno(1,2,3-cd)pyrene [193-39-5]^	0.037	U	ug/L	1	0.037	0.10	5F16019	EPA 8270D	06/18/15 20:02	jfi	
Naphthalene [91-20-3]^	2.9		ua/L	1	0.035	0.10	5F16019	EPA 8270D	06/18/15 20:02	ifi	
Phenanthrene [85-01-8]^	0.051	I	ua/L	1	0.039	0.10	5F16019	EPA 8270D	06/18/15 20:02	ifi	
Pyrene [129-00-0]^	0.048	U	ug/L	1	0.048	0.10	5F16019	EPA 8270D	06/18/15 20:02	jfi	
Gumanta	Desults	05	Cuilto Lud	0/ B aa	0/ D -	a l insita	Batab	Mathad	Analyzed	D .,	Nataa
<u>Surrogates</u>	<u>Results</u>		<u>Spike Lvi</u> 5 71	<u>% Rec</u>	<u>% ке</u>	<u>C LIMITS</u> 126	<u>BALCN</u>	<u>Metnoa</u>	<u>Analyzeu</u>	<u>Þy</u> ;6	notes
	0.1	1	5.71	100 %	00	130	3F10019	EPA 8270D	00/18/13 20:02	וונ	
Semivolatile Organic Com	pounds by G	iC									
^ - ENCO Orlando certified analyte [NELA Analyte [CAS Number]	C E83182] Recults	Flag	Unite	DF	мрі	POI	Batch	Method	Analyzed	Rv	Notes
1,2-Dibromoethane [106-93-4]^	0.004	U	ug/L	1	0.004	0.020	5F16007	EPA 8011	06/16/15 14:11	JJB	110105
- -	_ "			a	a: -					_	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Re</u>	<u>c Limits</u> 120	Batch	<u>Method</u>	Analyzed	<u>By</u>	<u>Notes</u>
1,1,1,2-18676010000801808	U.20	1	0.250	100 %	/0-	130	551600/	ΕΡΑ δυιι	<i>UD/10/15 14:11</i>	JJB	



			ANALYT	ICAL R	ESULT	s					
Description: MW-2			La	ab Samp	le ID:A	503546-0	1		Received: 06	/12/15 1	6:13
Matrix: Ground Water				Sam	pled: 0	6/12/15 1	0:29		Work Order: A5	03546	
Project: Amoco #89				Sample	ed By:⊮	liguel Roc	Iriguez				
FL Petroleum Range Orga	nics										
^ - ENCO Orlando certified analyte [NELA	IC E83182]										
Analyte [CAS Number]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	DF	MDL	<u>PQL</u>	Batch	Method	Analyzed	<u>By</u>	<u>Notes</u>
TPH (C8-C40)^	0.10	U	mg/L	1	0.10	0.17	5F18040	FL-PRO	06/19/15 12:43	JJB	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Re</u>	<u>c Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
n-Nonatriacontane	0.073	1	0.102	72 %	42-	193	5F18040	FL-PRO	06/19/15 12:43	JJB	
o-Terphenyl	0.046	1	0.0510	91 %	82	142	5F18040	FL-PRO	06/19/15 12:43	JJB	
Classical Chemistry Paran	neters										
^ - ENCO Orlando certified analyte [NELA	IC E83182]										
Analyte [CAS Number]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	DF	MDL	PQL	Batch	Method	<u>Analyzed</u>	By	<u>Notes</u>
Nitrate as N [14797-55-8]^	0.052	U	mg/L	1	0.052	1.0	5F12006	EPA 300.0	06/12/15 16:45	RAlfo	
Orthophosphate as P [1426-54-42]^	0.014	U	mg/L	1	0.014	0.040	5F13001	EPA 365.3	06/13/15 13:40	KMD	QM-07
Sulfate [14808-79-8]^	4.4	Ι	mg/L	1	0.07	5.0	5F12006	EPA 300.0	06/12/15 16:45	RAlfo	
Metals (total recoverable)) by EPA 600	0/700	0 Series	Metho	ds						
^ - ENCO Jacksonville certified analyte [N	IELAC E82277]										
Analyte [CAS Number]	<u>Results</u>	Flag	<u>Units</u>	DF	MDL	<u>PQL</u>	Batch	Method	Analyzed	<u>By</u>	Notes
Lead [7439-92-1]^	2.50	U	ug/L	1	2.50	10.0	5F15003	EPA 6010C	06/16/15 11:44	ACV	



Description: MW-16			Li	ab Samp	le ID:A	503546-0)2		- Received: 06,	/12/15 1	6:13
Matrix: Ground Water				San	npled:0	6/12/15 1	11:28		Work Order: A5	03546	
Project: Amoco #89				Sample	ed By:⊮	liguel Roo	driguez				
Volatile Organic Compour	nds by GCMS										
^ - ENCO Orlando certified analyte [NEL/	4C E831827										
Analyte [CAS Number]	Results	<u>Flag</u>	<u>Units</u>	DF	MDL	<u>PQL</u>	Batch	Method	Analyzed	<u>By</u>	Notes
Benzene [71-43-2]^	8.1		ug/L	1	0.71	1.0	5F16020	EPA 8260B	06/16/15 12:06	JAJ	
Ethylbenzene [100-41-4]^	0.69	U	ug/L	1	0.69	1.0	5F16020	EPA 8260B	06/16/15 12:06	JAJ	
m,p-Xylenes [108-38-3/106-42-3]^	1.3	U	ug/L	1	1.3	2.0	5F16020	EPA 8260B	06/16/15 12:06	JAJ	
Methyl-tert-Butyl Ether [1634-04-4]^	0.60	U	ug/L	1	0.60	1.0	5F16020	EPA 8260B	06/16/15 12:06	JAJ	
o-Xvlene [95-47-6]^	0.53	U	ua/L	1	0.53	1.0	5F16020	EPA 8260B	06/16/15 12:06	JAJ	
Toluene [108-88-3]^	0.72		9/= ua/l	- 1	0.72	1.0	5E16020	EPA 8260B	06/16/15 12:06	141	
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	5F16020	EPA 8260B	06/16/15 12:06	JAJ	
Surrogates	Results	DF	Spike Lvl	% Rec	% Re	c Limits	Batch	Method	Analyzed	Bv	Notes
4-Bromofluorobenzene	47	1	50.0	94 %	41-	142	5F16020	FPA 8260B	06/16/15 12:06	<u></u> 141	
Dibromofluoromethane	44	1	50.0	87%	53-	146	5F16020	EPA 8260B	06/16/15 12:00	14 I	
Toluene-d8	48	1	50.0	96 %	41-	146 146	5F16020	EPA 8260B	06/16/15 12:06	JAJ	
Semivolatile Organic Com	pounds by G	CMS S	SIM								
^ - ENCO Orlando certified analyte [NELA	4C E83182]										
Analyte [CAS Number]	<u>Results</u>	Flag	<u>Units</u>	DF	<u>MDL</u>	PQL	Batch	Method	Analyzed	By	Notes
1-Methylnaphthalene [90-12-0]^	1.8		ug/L	1	0.047	0.10	5F16019	EPA 8270D	06/18/15 20:23	jfi	
2-Methylnaphthalene [91-57-6]^	1.0		ug/L	1	0.044	0.10	5F16019	EPA 8270D	06/18/15 20:23	jfi	
Acenaphthene [83-32-9]^	0.091	I	ug/L	1	0.037	0.10	5F16019	EPA 8270D	06/18/15 20:23	jfi	
Acenaphthylene [208-96-8]^	0.063	I	ug/L	1	0.036	0.10	5F16019	EPA 8270D	06/18/15 20:23	ifi	
Anthracene [120-12-7]^	0.036	U	ua/L	1	0.036	0.10	5F16019	EPA 8270D	06/18/15 20:23	ifi	
Benzo(a)anthracene [56-55-3]^	0.037	U	ua/L	1	0.037	0.10	5F16019	EPA 8270D	06/18/15 20:23	ifi	
Benzo(a)pyrene [50-32-8]^	0.043	U	9/= ua/l	- 1	0.043	0.10	5F16019	FPA 8270D	06/18/15 20:23	ifi	
Benzo(h)fluoranthene [205-99-2]^	0.059	U U	ug/L	- 1	0.059	0.10	5E16019	EPA 8270D	06/18/15 20:23	j ifi	
Benzo(a h i)pervlene $[191-24-2]^{\circ}$	0.039		ug/L	1	0.040	0.10	5F16019	EPA 8270D	06/18/15 20:23	ifi	
$Benzo(k) fluoranthene [207_08_0]^{1}$	0.046		ug/L	1	0.046	0.10	5E16010	EPA 8270D	06/18/15 20:23	ifi	
	0.040		ug/L	1	0.040	0.10	5110019		06/10/15 20:25	jii ifi	
Diherra(a, b) anthrough $[E2, 70, 2]$	0.031		ug/L	1	0.031	0.10	51 10019	LFA 0270D	00/10/15 20:25	וון :פי	
	0.026	0	ug/L	1	0.026	0.10	5F10019	EPA 8270D	06/18/15 20:23	J۱۱ :c:	
	0.051	0	ug/L	1	0.051	0.10	5F10019	EPA 8270D	06/18/15 20:23	J۱۱ :c:	
	0.038	0	ug/L	1	0.038	0.10	5F16019	EPA 8270D	06/18/15 20:23	јп .c	QL-02
Indeno(1,2,3-cd)pyrene [193-39-5]^	0.037	U	ug/L	1	0.037	0.10	5F16019	EPA 82/0D	06/18/15 20:23	jti	
Naphthalene [91-20-3]^	11	_	ug/L	1	0.035	0.10	5F16019	EPA 82/0D	06/18/15 20:23	jfi	
Phenanthrene [85-01-8]^	0.057	I	ug/L	1	0.039	0.10	5F16019	EPA 8270D	06/18/15 20:23	jfi	
Pyrene [129-00-0]^	0.048	U	ug/L	1	0.048	0.10	5F16019	EPA 8270D	06/18/15 20:23	jfi	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Re</u>	<u>c Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
p-Terphenyl	4.9	1	5.71	<i>85 %</i>	66	136	5F16019	EPA 8270D	06/18/15 20:23	jfi	
FL Petroleum Range Orga	nics										
^ - ENCO Orlando certified analyte [NELA	4C E83182]					PO ²				-	
Analyte [CAS Number]	<u>Results</u>	Flag	<u>Units</u>	DF	MDL	PQL	Batch	Method	Analyzed	<u>By</u>	<u>Notes</u>
IPH (C8-C40)^	0.47		mg/L	1	0.10	0.17	5F18040	FL-PRO	06/19/15 13:15	JJB	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Re</u>	<u>c Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
n-Nonatriacontane	0.060	1	0.100	60 %	42-	193	<i>5F18040</i>	FL-PRO	06/19/15 13:15	JJB	

o-Terphenyl

82-142

5F18040

FL-PRO

0.047 1 0.0500 94 %

06/19/15 13:15 JJB



			ANALYT	ICAL R	ESULT	s					
Description: MW-1			La	ab Samp	le ID:A	503546-0)3		- Received: 06/	/12/15 1	6:13
Matrix: Ground Water				Sam	pled:0	6/12/15 1	12:24		Work Order: A5	03546	
Project: Amoco #89				Sample	ed Bv:M	liquel Roc	friauez				
Volatile Organic Compou	nds by GCMS										
^ - ENCO Orlando certified analyte [NEL	AC E83182]										
Analyte [CAS Number]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	DF	MDL	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	Analyzed	<u>By</u>	<u>Notes</u>
Benzene [71-43-2]^	0.71	U	ug/L	1	0.71	1.0	5F16020	EPA 8260B	06/16/15 16:12	JAJ	
Ethylbenzene [100-41-4]^	0.69	U	ug/L	1	0.69	1.0	5F16020	EPA 8260B	06/16/15 16:12	JAJ	
m,p-Xylenes [108-38-3/106-42-3]^	1.3	U	ug/L	1	1.3	2.0	5F16020	EPA 8260B	06/16/15 16:12	JAJ	
Methyl-tert-Butyl Ether [1634-04-4]^	0.60	U	ug/L	1	0.60	1.0	5F16020	EPA 8260B	06/16/15 16:12	JAJ	
o-Xylene [95-47-6]^	0.53	U	ug/L	1	0.53	1.0	5F16020	EPA 8260B	06/16/15 16:12	JAJ	
Toluene [108-88-3]^	0.72	U	ug/L	1	0.72	1.0	5F16020	EPA 8260B	06/16/15 16:12	JAJ	
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	5F16020	EPA 8260B	06/16/15 16:12	JAJ	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Re</u>	<u>c Limits</u>	<u>Batch</u>	Method	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
4-Bromofluorobenzene	47	1	50.0	94 %	41	142	5F16020	EPA 8260B	06/16/15 16:12	JAJ	
Dibromofluoromethane	44	1	50.0	<i>88 %</i>	53	146	5F16020	EPA 8260B	06/16/15 16:12	JAJ	
Toluene-d8	46	1	50.0	93 %	41	146	5F16020	EPA 8260B	06/16/15 16:12	JAJ	
Semivolatile Organic Con	npounds by G	CMS S	SIM								
^ - ENCO Orlando certified analyte [NEL	AC E83182]										
Analyte [CAS Number]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	DF	MDL	<u>PQL</u>	Batch	Method	Analyzed	<u>By</u>	<u>Notes</u>
1-Methylnaphthalene [90-12-0]^	0.047	U	ug/L	1	0.047	0.10	5F16019	EPA 8270D	06/18/15 20:45	jfi	
2-Methylnaphthalene [91-57-6]^	0.044	U	ug/L	1	0.044	0.10	5F16019	EPA 8270D	06/18/15 20:45	jfi	
Acenaphthene [83-32-9]^	0.037	U	ug/L	1	0.037	0.10	5F16019	EPA 8270D	06/18/15 20:45	jfi	
Acenaphthylene [208-96-8]^	0.036	U	ug/L	1	0.036	0.10	5F16019	EPA 8270D	06/18/15 20:45	jfi	
Anthracene [120-12-7]^	0.036	U	ug/L	1	0.036	0.10	5F16019	EPA 8270D	06/18/15 20:45	jfi	
Benzo(a)anthracene [56-55-3]^	0.037	U	ug/L	1	0.037	0.10	5F16019	EPA 8270D	06/18/15 20:45	jfi	
Benzo(a)pyrene [50-32-8]^	0.043	U	ug/L	1	0.043	0.10	5F16019	EPA 8270D	06/18/15 20:45	jfi	
Benzo(b)fluoranthene [205-99-2]^	0.059	U	ug/L	1	0.059	0.10	5F16019	EPA 8270D	06/18/15 20:45	jfi	
Benzo(g,h,i)perylene [191-24-2]^	0.040	U	ug/L	1	0.040	0.10	5F16019	EPA 8270D	06/18/15 20:45	jfi	
Benzo(k)fluoranthene [207-08-9]^	0.046	U	ug/L	1	0.046	0.10	5F16019	EPA 8270D	06/18/15 20:45	jfi	
Chrysene [218-01-9]^	0.051	U	ug/L	1	0.051	0.10	5F16019	EPA 8270D	06/18/15 20:45	jfi	
Dibenzo(a,h)anthracene [53-70-3]^	0.026	U	ug/L	1	0.026	0.10	5F16019	EPA 8270D	06/18/15 20:45	jfi	
Fluoranthene [206-44-0]^	0.051	U	ug/L	1	0.051	0.10	5F16019	EPA 8270D	06/18/15 20:45	jfi	
Fluorene [86-73-7]^	0.038	U	ug/L	1	0.038	0.10	5F16019	EPA 8270D	06/18/15 20:45	jfi	QL-02
Indeno(1,2,3-cd)pyrene [193-39-5]^	0.037	U	ug/L	1	0.037	0.10	5F16019	EPA 8270D	06/18/15 20:45	ifi	-
Naphthalene [91-20-3]^	0.091	I	ug/L	1	0.035	0.10	5F16019	EPA 8270D	06/18/15 20:45	jfi	
Phenanthrene [85-01-8]^	0.039	U	ua/L	1	0.039	0.10	5F16019	EPA 8270D	06/18/15 20:45	ifi	
Pyrene [129-00-0]^	0.048	U	ug/L	1	0.048	0.10	5F16019	EPA 8270D	06/18/15 20:45	jfi	
Surrogates	Results	DF	Snike I vl	% Rec	% Re	c l imits	Batch	Method	Analyzed	<i>Bv</i>	Notes
p-Terphenyl	5.1	1	<u>5.71</u>	89 %	66	136	5F16019	EPA 8270D	06/18/15 20:45	jfi	10000
FL Petroleum Range Orga	anics										
^ - ENCO Orlando certified analyte INFL	AC E831827										
Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
TPH (C8-C40)^	1.2		mg/L	1	0.10	0.17	5F18040	FL-PRO	06/19/15 13:46	JJB	
Surrogates	Reculte	DF	Snike I vl	% Rec	% R=	c Limits	Batch	Method	Analyzed	Bv	Notes
n-Nonatriacontane	0 054	1	0 100	54 %		<u> </u>	5F18040	FI - PRO	06/19/15 13:46	<u></u> 11R	
o-Ternhenvl	n n49	1	0.0500	97%	, ,87-	142	5F18040	FI -PRO	06/19/15 13:46	11R	
	01015	-	0.0000	2. 10	02 .		5. 200 10		00, 10, 10 10, 10	550	



Description: MW-1			La	b Sam	ple ID:A	503546-0)3		Received: 06	/12/15 1	6:13
Matrix: Ground Water				Sai	mpled:0	6/12/15 1	12:24		Work Order: A5	03546	
Project: Amoco #89											
Classical Chemistry Para	ELAC E83182]										
Analyte [CAS Number]	Results	<u>Flag</u>	<u>Units</u>	DF	MDL	PQL	Batch	Method	Analyzed	<u>By</u>	<u>Notes</u>
Nitrate as N [14797-55-8]^	0.052	U	mg/L	1	0.052	1.0	5F12006	EPA 300.0	06/12/15 20:14	RAlfo	
Orthophosphate as P [1426-54-42]^	0.014	U	mg/L	1	0.014	0.040	5F13001	EPA 365.3	06/13/15 13:40	KMD	
Sulfate [14808-79-8]^	8.9	FPA 300 0	06/12/15 20:14	RAlfo							



Matrix: Ground Water

Project: Amoco #89

ANALYTICAL RESULTS

Lab Sample ID: A503546-04

Received: 06/12/15 16:13 Work Order: A503546

Sampled:06/12/15 13:23 Sampled By:Miguel Rodriguez

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E&	3182]										
Analyte [CAS Number]	Results	<u>Flag</u>	<u>Units</u>	DF	MDL	PQL	Batch	Method	Analyzed	By	<u>Notes</u>
Benzene [71-43-2]^	0.71	U	ug/L	1	0.71	1.0	5F16020	EPA 8260B	06/16/15 16:43	JAJ	
Ethylbenzene [100-41-4]^	51		ug/L	1	0.69	1.0	5F16020	EPA 8260B	06/16/15 16:43	JAJ	
m,p-Xylenes [108-38-3/106-42-3]^	21		ug/L	1	1.3	2.0	5F16020	EPA 8260B	06/16/15 16:43	JAJ	
Methyl-tert-Butyl Ether [1634-04-4]^	0.60	U	ug/L	1	0.60	1.0	5F16020	EPA 8260B	06/16/15 16:43	JAJ	
o-Xylene [95-47-6]^	1.8		ug/L	1	0.53	1.0	5F16020	EPA 8260B	06/16/15 16:43	JAJ	
Toluene [108-88-3]^	0.72	U	ug/L	1	0.72	1.0	5F16020	EPA 8260B	06/16/15 16:43	JAJ	
Xylenes (Total) [1330-20-7]^	23		ug/L	1	1.3	2.0	5F16020	EPA 8260B	06/16/15 16:43	JAJ	
Surrogates	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Re</u>	<u>c Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
4-Bromofluorobenzene	49	1	50.0	<i>98 %</i>	41	142	5F16020	EPA 8260B	06/16/15 16:43	JAJ	
Dibromofluoromethane	44	1	50.0	88 %	53	146	5F16020	EPA 8260B	06/16/15 16:43	JAJ	
Toluene-d8	48	1	50.0	96 %	41	146	5F16020	EPA 8260B	06/16/15 16:43	JAJ	

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [NELA	C E83182]										
Analyte [CAS Number]	<u>Results</u>	Flag	<u>Units</u>	DF	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	Analyzed	<u>By</u>	<u>Notes</u>
1-Methylnaphthalene [90-12-0]^	9.5		ug/L	1	0.047	0.10	5F16019	EPA 8270D	06/18/15 21:06	jfi	
2-Methylnaphthalene [91-57-6]^	11		ug/L	1	0.044	0.10	5F16019	EPA 8270D	06/18/15 21:06	jfi	
Acenaphthene [83-32-9]^	0.39		ug/L	1	0.037	0.10	5F16019	EPA 8270D	06/18/15 21:06	jfi	
Acenaphthylene [208-96-8]^	0.051	I	ug/L	1	0.036	0.10	5F16019	EPA 8270D	06/18/15 21:06	jfi	
Anthracene [120-12-7]^	0.15		ug/L	1	0.036	0.10	5F16019	EPA 8270D	06/18/15 21:06	jfi	
Benzo(a)anthracene [56-55-3]^	0.037	U	ug/L	1	0.037	0.10	5F16019	EPA 8270D	06/18/15 21:06	jfi	
Benzo(a)pyrene [50-32-8]^	0.043	U	ug/L	1	0.043	0.10	5F16019	EPA 8270D	06/18/15 21:06	jfi	
Benzo(b)fluoranthene [205-99-2]^	0.059	U	ug/L	1	0.059	0.10	5F16019	EPA 8270D	06/18/15 21:06	jfi	
Benzo(g,h,i)perylene [191-24-2]^	0.040	U	ug/L	1	0.040	0.10	5F16019	EPA 8270D	06/18/15 21:06	jfi	
Benzo(k)fluoranthene [207-08-9]^	0.046	U	ug/L	1	0.046	0.10	5F16019	EPA 8270D	06/18/15 21:06	jfi	
Chrysene [218-01-9]^	0.051	U	ug/L	1	0.051	0.10	5F16019	EPA 8270D	06/18/15 21:06	jfi	
Dibenzo(a,h)anthracene [53-70-3]^	0.026	U	ug/L	1	0.026	0.10	5F16019	EPA 8270D	06/18/15 21:06	jfi	
Fluoranthene [206-44-0]^	0.063	I	ug/L	1	0.051	0.10	5F16019	EPA 8270D	06/18/15 21:06	jfi	
Fluorene [86-73-7]^	0.34		ug/L	1	0.038	0.10	5F16019	EPA 8270D	06/18/15 21:06	jfi	J-02
Indeno(1,2,3-cd)pyrene [193-39-5]^	0.037	U	ug/L	1	0.037	0.10	5F16019	EPA 8270D	06/18/15 21:06	jfi	
Naphthalene [91-20-3]^	37		ug/L	5	0.18	0.50	5F16019	EPA 8270D	06/22/15 15:10	jfi	
Phenanthrene [85-01-8]^	0.039	U	ug/L	1	0.039	0.10	5F16019	EPA 8270D	06/18/15 21:06	jfi	
Pyrene [129-00-0]^	0.048	U	ug/L	1	0.048	0.10	5F16019	EPA 8270D	06/18/15 21:06	jfi	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Re</u>	<u>c Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
p-Terphenyl	6.9	1	5.71	121 %	66	136	5F16019	EPA 8270D	06/18/15 21:06	jfi	
FL Petroleum Range Organ	nics										
^ - ENCO Orlando certified analyte [NELA	C E83182]										
Analyte [CAS Number]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	DF	MDL	<u>PQL</u>	Batch	Method	Analyzed	<u>By</u>	<u>Notes</u>

ТРН (С8-С40)^	0.19		mg/L	1	0.10 0.1	17 5F18040	FL-PRO	06/19/15 14:49	JJB	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Lim</u>	<u>its Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
n-Nonatriacontane	0.084	1	0.100	84 %	42-193	5F18040	FL-PRO	06/19/15 14:49	JJB	
o-Terphenyl	0.049	1	0.0500	<i>98 %</i>	82-142	5F18040	FL-PRO	06/19/15 14:49	JJB	



Description: MW-4			Li	ab Samp	le ID:A	503546-0)5		Received: 06/	/12/15 1	.6:13
Matrix: Ground Water				San	npled:0	6/12/15 1	14:10		Work Order: A50	03546	
Project: Amoco #89				Sample	ed Bv:⊵	liguel Roc	driguez				
											
	Ids by GCMS										
Analyte [CAS Number]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	DF	<u>MDL</u>	PQL	Batch	Method	Analyzed	<u>By</u>	<u>Notes</u>
Benzene [71-43-2]^	0.71	U	ug/L	1	0.71	1.0	5F16020	EPA 8260B	06/16/15 17:14	JAJ	
Ethylbenzene [100-41-4]^	0.69	U	ug/L	1	0.69	1.0	5F16020	EPA 8260B	06/16/15 17:14	JAJ	
m,p-Xylenes [108-38-3/106-42-3]^	1.3	U	ug/L	1	1.3	2.0	5F16020	EPA 8260B	06/16/15 17:14	JAJ	
Methyl-tert-Butyl Ether [1634-04-4]^	0.60	U	ug/L	1	0.60	1.0	5F16020	EPA 8260B	06/16/15 17:14	JAJ	
o-Xylene [95-47-6]^	0.53	U	ug/L	1	0.53	1.0	5F16020	EPA 8260B	06/16/15 17:14	JAJ	
Toluene [108-88-3]^	0.72	U	ug/L	1	0.72	1.0	5F16020	EPA 8260B	06/16/15 17:14	JAJ	
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	5F16020	EPA 8260B	06/16/15 17:14	JAJ	
Surrogates	Results	DF	Spike Lvl	% Rec	% Re	c Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	47	1	50.0	95 %	41-	142	5F16020	EPA 8260B	06/16/15 17:14	JAJ	
Dibromofluoromethane	43	1	50.0	87 %	.5.3-	146	5F16020	EPA 8260B	06/16/15 17:14	JA J	
Toluene-d8	47	1	50.0	93 %	41-	146	5F16020	EPA 8260B	06/16/15 17:14	JAJ	
Semivolatile Organic Com	pounds by G	CMS S	SIM								
^ - ENCO Orlando certified analyte [NEL4	AC E83182]										
Analyte [CAS Number]	<u>Results</u>	Flag	<u>Units</u>	DF	MDL	<u>PQL</u>	Batch	<u>Method</u>	Analyzed	By	<u>Notes</u>
1-Methylnaphthalene [90-12-0]^	0.086	Ι	ug/L	1	0.047	0.10	5F16019	EPA 8270D	06/18/15 21:27	jfi	
2-Methylnaphthalene [91-57-6]^	0.11		ug/L	1	0.044	0.10	5F16019	EPA 8270D	06/18/15 21:27	jfi	
Acenaphthene [83-32-9]^	0.037	U	ug/L	1	0.037	0.10	5F16019	EPA 8270D	06/18/15 21:27	jfi	
Acenaphthylene [208-96-8]^	0.036	U	ug/L	1	0.036	0.10	5F16019	EPA 8270D	06/18/15 21:27	jfi	
Anthracene [120-12-7]^	0.036	U	ug/L	1	0.036	0.10	5F16019	EPA 8270D	06/18/15 21:27	jfi	
Benzo(a)anthracene [56-55-3]^	0.037	U	ug/L	1	0.037	0.10	5F16019	EPA 8270D	06/18/15 21:27	jfi	
Benzo(a)pyrene [50-32-8]^	0.043	U	ug/L	1	0.043	0.10	5F16019	EPA 8270D	06/18/15 21:27	jfi	
Benzo(b)fluoranthene [205-99-2]^	0.059	U	ug/L	1	0.059	0.10	5F16019	EPA 8270D	06/18/15 21:27	jfi	
Benzo(g,h,i)perylene [191-24-2]^	0.040	U	ug/L	1	0.040	0.10	5F16019	EPA 8270D	06/18/15 21:27	jfi	
Benzo(k)fluoranthene [207-08-9]^	0.046	U	ug/L	1	0.046	0.10	5F16019	EPA 8270D	06/18/15 21:27	jfi	
Chrysene [218-01-9]^	0.051	U	ug/L	1	0.051	0.10	5F16019	EPA 8270D	06/18/15 21:27	jfi	
Dibenzo(a,h)anthracene [53-70-3]^	0.026	U	ug/L	1	0.026	0.10	5F16019	EPA 8270D	06/18/15 21:27	jfi	
Fluoranthene [206-44-0]^	0.051	U	ug/L	1	0.051	0.10	5F16019	EPA 8270D	06/18/15 21:27	jfi	
Fluorene [86-73-7]^	0.038	U	ug/L	1	0.038	0.10	5F16019	EPA 8270D	06/18/15 21:27	jfi	QL-02
Indeno(1,2,3-cd)pyrene [193-39-5]^	0.037	U	ug/L	1	0.037	0.10	5F16019	EPA 8270D	06/18/15 21:27	jfi	
Naphthalene [91-20-3]^	0.27		ug/L	1	0.035	0.10	5F16019	EPA 8270D	06/18/15 21:27	jfi	
Phenanthrene [85-01-8]^	0.039	U	ug/L	1	0.039	0.10	5F16019	EPA 8270D	06/18/15 21:27	jfi	
Pyrene [129-00-0]^	0.048	U	ug/L	1	0.048	0.10	5F16019	EPA 8270D	06/18/15 21:27	jfi	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Re</u>	<u>c Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
p-Terphenyl	5.7	1	5.71	99 %	66	136	5F16019	EPA 8270D	06/18/15 21:27	jfi	
FL Petroleum Range Orga	nics										
^ - ENCO Orlando certified analyte [NELA	AC E83182]	F 1.	1154		MD:	PO!	B-4-1	M-st.	A	Ρ.	B1-7
	<u>kesuits</u>	<u>riag</u>	Units			<u>PQL</u>	Batch			<u>вұ</u>	notes
IFN (Lð-L4U)' `	0.10	U	mg/L	T	0.10	0.1/	JL19040	L-4KO	15:20 נו ענו עסע	JJR	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Re</u>	<u>c Limits</u>	<u>Batch</u>	<u>Method</u>	Analyzed	<u>By</u>	<u>Notes</u>
n-Nonatriacontane	0.077	1	0.100	77 %	42-	193	5F18040	FL-PRO	06/19/15 15:20	JJB	
o-Terphenyl	0.047	1	0.0500	<i>93 %</i>	82	142	5F18040	FL-PRO	06/19/15 15:20	JJB	



			ANALYT	ICAL R	ESULT	s					
Description: MW-5			La	ab Samp	le ID:A	503546-0)6		- Received: 06/	/12/15 1	6:13
Matrix: Ground Water				San	npled:0	6/12/15 1	14:51		Work Order: A50	03546	
Project: Amoco #89				Sample	ed Bv:⊮	liquel Roc	friauez				
Volatile Organic Compour	nds by GCMS										
^ - ENCO Orlando certified analyte [NEL Analyte [CAS Number]	AC E83182) <u>Results</u>	Flag	<u>Units</u>	DF	MDL	POL	<u>Batch</u>	<u>Method</u>	Analyzed	By	Notes
Benzene [71-43-2]^	0.71	U	ug/L	1	0.71	1.0	5F16020	EPA 8260B	06/16/15 17:44	JAJ	
Ethylbenzene [100-41-4]^	0.69	U	ug/L	1	0.69	1.0	5F16020	EPA 8260B	06/16/15 17:44	JAJ	
m.p-Xylenes [108-38-3/106-42-3]^	1.3	U	ua/L	1	1.3	2.0	5F16020	EPA 8260B	06/16/15 17:44	JAJ	
Methyl-tert-Butyl Ether [1634-04-4]^	0.60	U	ua/L	1	0.60	1.0	5F16020	EPA 8260B	06/16/15 17:44	JAJ	
o-Xvlene [95-47-6]^	0.53	U	ua/L	1	0.53	1.0	5F16020	EPA 8260B	06/16/15 17:44	JAJ	
Toluene [108-88-3]^	0.72	U	<u>5</u> ,	1	0.72	1.0	5F16020	EPA 8260B	06/16/15 17:44	1A1	
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	5F16020	EPA 8260B	06/16/15 17:44	JAJ	
C	D		Cuillan I.a.I	04 D	04 B.		8-4-6	M - t h - d	e and the set		N
<u>Surrogates</u>	<u>Results</u>	DF	<u>Spike Lvi</u>	<u>% Kec</u>	<u>% Re</u>	<u>c Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>BY</u>	Notes
4-Bromotiuorobenzene	48	1	50.0	95 %	41	142	5F16020	EPA 8260B	06/16/15 17:44	JAJ	
Dibromofluoromethane	44	1	50.0	89 %	53	146	5F16020	EPA 8260B	06/16/15 17:44	JAJ	
Toluene-d8	48	1	50.0	97%	41	146	5F16020	EPA 8260B	06/16/15 17:44	JAJ	
Semivolatile Organic Com	pounds by G	icms s	SIM								
^ - ENCO Orlando certified analyte [NEL Analyte [CAS Number]	AC E83182] Boculto	Elag	Unite	DE	MDI	POI	Batch	Mathad	Analyzod	Bv	Notoc
Analyte [CAS Number]	<u>Results</u>	<u>riag</u>	Units		<u>MDL</u>	<u>PQL</u>	Eaten		<u>Analyzeu</u>	<u>by</u>	notes
1-Methylnaphthalene [90-12-0]	0.047	0	ug/L	1	0.047	0.10	5F10019	EPA 8270D	06/18/15 21:49	اال بە:	
	0.044	0	ug/L	1	0.044	0.10	5F10019	EPA 8270D	06/18/15 21:49	اال بە:	
	0.037	0	ug/L	1	0.037	0.10	5F16019	EPA 8270D	06/18/15 21:49	јп .c	
	0.036	0	ug/L	1	0.036	0.10	5F16019	EPA 8270D	06/18/15 21:49	јп .c	
Anthracene [120-12-7]^	0.036	0	ug/L	1	0.036	0.10	5F16019	EPA 82/0D	06/18/15 21:49	JTI IC	
Benzo(a)anthracene [56-55-3]^	0.037	U	ug/L	1	0.037	0.10	5F16019	EPA 82/0D	06/18/15 21:49	jfi	
Benzo(a)pyrene [50-32-8]^	0.043	U	ug/L	1	0.043	0.10	5F16019	EPA 82/0D	06/18/15 21:49	jti	
Benzo(b)fluoranthene [205-99-2]^	0.059	U	ug/L	1	0.059	0.10	5F16019	EPA 8270D	06/18/15 21:49	jfi	
Benzo(g,h,i)perylene [191-24-2]^	0.040	U	ug/L	1	0.040	0.10	5F16019	EPA 8270D	06/18/15 21:49	jfi	
Benzo(k)fluoranthene [207-08-9]^	0.046	U	ug/L	1	0.046	0.10	5F16019	EPA 8270D	06/18/15 21:49	jfi	
Chrysene [218-01-9]^	0.051	U	ug/L	1	0.051	0.10	5F16019	EPA 8270D	06/18/15 21:49	jfi	
Dibenzo(a,h)anthracene [53-70-3]^	0.026	U	ug/L	1	0.026	0.10	5F16019	EPA 8270D	06/18/15 21:49	jfi	
Fluoranthene [206-44-0]^	0.051	U	ug/L	1	0.051	0.10	5F16019	EPA 8270D	06/18/15 21:49	jfi	
Fluorene [86-73-7]^	0.038	U	ug/L	1	0.038	0.10	5F16019	EPA 8270D	06/18/15 21:49	jfi	QL-02
Indeno(1,2,3-cd)pyrene [193-39-5]^	0.037	U	ug/L	1	0.037	0.10	5F16019	EPA 8270D	06/18/15 21:49	jfi	
Naphthalene [91-20-3]^	0.11		ug/L	1	0.035	0.10	5F16019	EPA 8270D	06/18/15 21:49	jfi	
Phenanthrene [85-01-8]^	0.039	U	ug/L	1	0.039	0.10	5F16019	EPA 8270D	06/18/15 21:49	jfi	
Pyrene [129-00-0]^	0.048	U	ug/L	1	0.048	0.10	5F16019	EPA 8270D	06/18/15 21:49	jfi	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Re</u>	<u>c Limits</u>	<u>Batch</u>	Method	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
p-Terphenyl	5.8	1	5.71	102 %	66	136	5F16019	EPA 8270D	06/18/15 21:49	jfi	
FL Petroleum Range Orga	nics										
^ - ENCO Orlando certified analyte [NEL	AC E83182]										
Analyte [CAS Number]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	DF	MDL	PQL	Batch	<u>Method</u>	Analyzed	<u>By</u>	<u>Notes</u>
TPH (C8-C40)^	0.10	U	mg/L	1	0.10	0.17	5F18040	FL-PRO	06/19/15 15:52	JJB	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Re</u>	<u>c Limits</u>	<u>Batch</u>	<u>Method</u>	Analyzed	<u>By</u>	<u>Notes</u>
n-Nonatriacontane	0.090	1	0.100	90 %	42	193	5F18040	FL-PRO	06/19/15 15:52	JJB	
o-Terphenyl	0.047	1	0.0500	<i>95 %</i>	82	142	5F18040	FL-PRO	06/19/15 15:52	JJB	



Volatile Organic Compounds by GCMS - Quality Control

Batch 5F15042 - EPA 5030B_MS

Blank (5F15042-BLK1)					Prepare	ed: 06/15/201	5 00:00 Anal	yzed: 06/15/	2015 11:25		
					Snike	Source		%RFC		RPD	
Analyte	Result	Flag	PQL	<u>Units</u>	Level	Result	%REC	Limits	RPD	Limit	Notes
Benzene	0.71	U	1.0	ug/L							
Ethylbenzene	0.69	U	1.0	ug/L							
m,p-Xylenes	1.3	U	2.0	ug/L							
Methyl-tert-Butyl Ether	0.60	U	1.0	ug/L							
o-Xylene	0.53	U	1.0	ug/L							
Toluene	0.72	U	1.0	ug/L							
Xylenes (Total)	1.3	U	2.0	ug/L							
4-Bromofluorobenzene	47			ug/L	50.0		94	41-142			
Dibromofluoromethane	43			ug/L	50.0		87	53-146			
Toluene-d8	46			ug/L	50.0		<i>92</i>	41-146			
LCS (5F15042-BS1)					Prepare	ed: 06/15/201	5 00:00 Anal	yzed: 06/15/	2015 09:54		
					Spike	Source		%REC		RPD	
Analyte	<u>Result</u>	Flag	PQL	<u>Units</u>	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Notes
Benzene	21		1.0	ug/L	20.0		103	56-136			
Toluene	21		1.0	ug/L	20.0		103	64-131			
4-Bromofluorobenzene	45			ug/L	50.0		91	41-142			
Dibromofluoromethane	43			ug/L	50.0		86	53-146			
Toluene-d8	46			ug/L	50.0		<i>92</i>	41-146			
LCS Dup (5F15042-BSD1)					Prepare	ed: 06/15/201	5 00:00 Anal	yzed: 06/15/	2015 10:24		
					Spike	Source		%REC		RPD	
Analyte	Result	Flag	PQL	<u>Units</u>	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Notes
Benzene	20		1.0	ug/L	20.0		101	56-136	2	14	
Toluene	20		1.0	ug/L	20.0		100	64-131	3	16	
4-Bromofluorobenzene	46			ug/L	50.0		93	41-142			
Dibromofluoromethane	43			ug/L	50.0		87	53-146			
Toluene-d8	47			ug/L	50.0		94	41-146			
Batch 5F16020 - EPA 5030	B_MS										
Blank (5F16020-BLK1)					Prepare	ed: 06/16/201	5 00:00 Anal	yzed: 06/16/	2015 11:02		
					Spike	Source		%REC		RPD	
Analyte	<u>Result</u>	<u>Flaq</u>	PQL	<u>Units</u>	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Notes
Benzene	0.71	U	1.0	ug/L							
Ethylbenzene	0.69	U	1.0	ug/L							
m,p-Xylenes	1.3	U	2.0	ug/L							
Methyl-tert-Butyl Ether	0.60	U	1.0	ug/L							
o-Xylene	0.53	U	1.0	ug/L							
Toluene	0.72	U	1.0	ug/L							
Xylenes (Total)	1.3	U	2.0	ug/L							
4-Bromofluorobenzene	48			ug/L	50.0		95	41-142			
Dibromofluoromethane	44			ug/L	50.0		89	53-146			
Toluene-d8	46			ug/L	50.0		<i>93</i>	41-146			



Volatile Organic Compounds by GCMS - Quality Control

Batch 5F16020 - EPA 5030B_MS - Continued

LCS (5F16020-BS1)					Prepare	ed: 06/16/201	5 00:00 Anal	yzed: 06/16/	2015 09:48		
Analyte	<u>Result</u>	<u>Flaq</u>	<u>POL</u>	<u>Units</u>	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes
Benzene	20		1.0	ug/L	20.0		101	56-136			
oluene	20		1.0	ug/L	20.0		99	64-131			
1-Bromofluorobenzene	47			ug/L	50.0		94	41-142			
Dibromofluoromethane	44			ug/L	50.0		89	53-146			
Toluene-d8	47			ug/L	50.0		94	41-146			
Matrix Spike (5F16020-MS1)					Prepare	ed: 06/16/201	5 00:00 Anal	yzed: 06/16/	2015 19:15		
Source: A503582-04											
Analyte	Result	Flag	POL	Units	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	<u>Notes</u>
Benzene	22		1.0	ug/L	20.0	0.71 U	111	56-136			
oluene	22		1.0	ug/L	20.0	0.72 U	109	64-131			
1-Bromofluorobenzene	48			ug/L	50.0		96	41-142			
Dibromofluoromethane	44			ug/L	50.0		88	53-146			
Toluene-d8	48			ug/L	50.0		96	41-146			
Matrix Spike Dup (5F16020-N	ISD1)				Prepare	ed: 06/16/201	5 00:00 Anal	yzed: 06/16/	2015 19:46		
Source: A503582-04											
Analyte	Result	Flag	<u>PQL</u>	<u>Units</u>	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	<u>Notes</u>
Benzene	22		1.0	ug/L	20.0	0.71 U	108	56-136	3	14	
oluene	22		1.0	ug/L	20.0	0.72 U	110	64-131	0.7	16	
1-Bromofluorobenzene	47			ug/L	50.0		94	41-142			
Dibromofluoromethane	43			ug/L	50.0		86	53-146			
Toluene-d8	47			ug/L	50.0		95	41-146			
emivolatile Organic Compound	ds by GCMS SI	M - Qua	ity Contr	ol							
Batch 5F16019 - EPA 3511	_MS										
Blank (5F16019-BLK1)					Prepare	ed: 06/16/201	5 14:15 Anal	yzed: 06/18/	2015 15:44		
					Cuilco	Courses				0.00	

Level

<u>Result</u>

%REC

<u>Limits</u>

RPD

<u>Limit</u>

Notes

Analyte	Result	Flag	PQL	<u>Units</u>
1-Methylnaphthalene	0.047	U	0.10	ug/L
2-Methylnaphthalene	0.044	U	0.10	ug/L
Acenaphthene	0.037	U	0.10	ug/L
Acenaphthylene	0.036	U	0.10	ug/L
Anthracene	0.036	U	0.10	ug/L
Benzo(a)anthracene	0.037	U	0.10	ug/L
Benzo(a)pyrene	0.043	U	0.10	ug/L
Benzo(b)fluoranthene	0.059	U	0.10	ug/L
Benzo(g,h,i)perylene	0.040	U	0.10	ug/L
Benzo(k)fluoranthene	0.046	U	0.10	ug/L
Chrysene	0.051	U	0.10	ug/L
Dibenzo(a,h)anthracene	0.026	U	0.10	ug/L
Fluoranthene	0.051	U	0.10	ug/L
Fluorene	0.038	U	0.10	ug/L
Indeno(1,2,3-cd)pyrene	0.037	U	0.10	ug/L
Naphthalene	0.035	U	0.10	ug/L
Phenanthrene	0.039	U	0.10	ug/L



Semivolatile Organic Compounds by GCMS SIM - Quality Control

Batch 5F16019 - EPA 3511_MS - Continued

Blank (5F16019-BLK1) Conti	nued				Prepare	ed: 06/16/201	5 14:15 Anal	yzed: 06/18/	2015 15:44		
					Spike	Source		%REC		RPD	
Analyte	<u>Result</u>	Flag	PQL	<u>Units</u>	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	<u>Notes</u>
Pyrene	0.048	U	0.10	ug/L							
p-Terphenyl	7.5			ug/L	5.71		130	66-136			
LCS (5F16019-BS1)					Prepare	ed: 06/16/201	5 14:15 Anal	yzed: 06/18/	2015 16:05		
A	Desult	F 1	501		Spike	Source		%REC		RPD	. .
	Result	riag		<u>units</u>	Level	<u>Result</u>	%REC	LIMITS	RPD	Limit	Notes
Acenaphthene	6.0		0.10	ug/L	5./1		105	80-120			
Benzo(a)pyrene	5.5		0.10	ug/L	5.71		96	73-149			
Benzo(g,n,i)perviene	4.9		0.10	ug/L	5.71		87	57-124			
Naphthalene	5.2		0.10	ug/L	5.71		92	68-120			
p-Terphenyl	5.0			ug/L	5.71		87	66-136			
Matrix Spike (5F16019-MS1)					Prepare	ed: 06/16/201	5 14:15 Anal	yzed: 06/18/	2015 16:27		
Source: A503600-01					Spike	Source		%REC		RPD	
Analyte	Result	Flag	POL	<u>Units</u>	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Notes
Acenaphthene	6.8		0.10	ug/L	5.71	0.037 U	119	80-120			
Benzo(a)pyrene	6.6		0.10	ug/L	5.71	0.043 U	116	73-149			
Benzo(g,h,i)perylene	6.2		0.10	ug/L	5.71	0.040 U	108	57-124			
Naphthalene	5.3		0.10	ug/L	5.71	0.035 U	93	68-120			
p-Terphenyl	5.8			ug/L	5.71		102	66-136			
Matrix Spike Dup (5F16019-	MSD1)				Prepare	ed: 06/16/201	5 14:15 Anal	yzed: 06/18/	2015 16:48		
Source: A503600-01						_					
Analyte	Result	<u>Flaq</u>	POL	<u>Units</u>	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes
Acenaphthene	6.6		0.10	ug/L	5.71	0.037 U	116	80-120	3	25	
Benzo(a)pyrene	6.1		0.10	ug/L	5.71	0.043 U	107	73-149	8	25	
Benzo(g,h,i)perylene	5.6		0.10	ug/L	5.71	0.040 U	98	57-124	10	25	
Naphthalene	5.2		0.10	ug/L	5.71	0.035 U	90	68-120	3	25	
p-Terphenyl	5.8			ug/L	5.71		102	66-136			
Semivolatile Organic Compoun	ds by GC - Qua	ality Con	trol								
Batch 5F16007 - EPA 504/	'8011										
Blank (5F16007-BLK1)					Prepare	ed: 06/16/201	5 07:44 Anal	yzed: 06/16/	2015 09:03		
A	- -	-1	DC :	11. 2	Spike	Source		%REC		RPD	
Analyte	Result	Flag	PQL	Units	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Notes
1,2-Dibromoethane	0.004	U	0.020	ug/L							
1,1,1,2-Tetrachloroethane	0.27			ug/L	0.250	1.00/10/01	110	70-130			
LCS (5F16007-BS1)					Prepare	ed: 06/16/201	5 07:44 Anal	yzed: 06/16/	2015 09:21		
					Spike	Source		%REC		RPD	
Analyte	<u>Result</u>	Flag	PQL	Units	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Notes
1,2-Dibromoethane	0.26		0.020	ug/L	0.250		106	65-133			

1,1,1,2-Tetrachloroethane

0.28

ug/L

0.250

110

70-130



Semivolatile Organic Compounds by GC - Quality Control

Matrix Spike (5F16007-MS	L)				Prepare	ed: 06/16/201	5 07:44 Anal	yzed: 06/16/	2015 09:39		
Source: A503600-01					Spiko	Fourso		04 DEC		PPD	
Analyte	Result	Flag	POL	<u>Units</u>	Level	Result	%REC	Limits	RPD	Limit	Notes
1,2-Dibromoethane	0.27		0.020	ug/L	0.250	0.004 U	107	65-133			
1,1,1,2-Tetrachloroethane	0.28			ug/L	0.250		110	70-130			
Matrix Spike Dup (5F16007	-MSD1)				Prepare	ed: 06/16/201	5 07:44 Anal	yzed: 06/16/	2015 09:57		
Source: A503600-01											
Analyte	Result	<u>Flaq</u>	<u>PQL</u>	<u>Units</u>	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes
1,2-Dibromoethane	0.27		0.020	ug/L	0.250	0.004 U	108	65-133	0.4	17	
1,1,1,2-Tetrachloroethane	0.28			ug/L	0.250		112	70-130			
FL Petroleum Range Organics	- Quality Contro	ol									

Batch 5F17004 - EPA 3510C

FINAL

Blank (5F17004-BLK1)					Prepare	ed: 06/17/201	5 05:15 Anal	yzed: 06/18/	2015 12:31		
	<u>Result</u>	<u>Flaq</u>	POL	<u>Units</u>	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	<u>Notes</u>
TPH (C8-C40)	0.10	U	0.17	mg/L							
n-Nonatriacontane	0.062			mg/L	0.100		62	42-193			
o-Terphenyl	0.043			mg/L	0.0500		86	82-142			
LCS (5F17004-BS1)					Prepare	ed: 06/17/201	5 05:15 Anal	yzed: 06/18/	2015 13:03		
Analyte	<u>Result</u>	<u>Flaq</u>	<u>PQL</u>	<u>Units</u>	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes
TPH (C8-C40)	1.9		0.17	mg/L	1.70		113	55-118			
n-Nonatriacontane	0.066			mg/L	0.100		66	42-193			
o-Terphenyl	0.074			mg/L	0.0500		148	82-142			QS-03
Matrix Spike (5F17004-MS1)					Prepare	ed: 06/17/201	5 05:15 Anal	yzed: 06/18/	2015 13:35		
Source: A503600-02					Californ	6		0/ DEC			
Analyte	Result	Flag	PQL	<u>Units</u>	Level	Result	%REC	<u>Limits</u>	RPD	Limit	Notes
TPH (C8-C40)	1.9		0.17	mg/L	1.70	0.10 U	110	41-101			QM-07
n-Nonatriacontane	0.054			mg/L	0.100		54	42-193			
o-Terphenyl	0.072			mg/L	0.0500		144	82-142			QS-03
Matrix Spike Dup (5F17004-MSD	1)				Prepare	ed: 06/17/201	5 05:15 Anal	yzed: 06/18/	2015 14:07		
Source: A503600-02						_					
Analyte	Result	Flag	PQL	<u>Units</u>	Spike	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes
TPH (C8-C40)	1.7		0.17	mg/L	1.70	0.10 U	101	41-101	9	20	
n-Nonatriacontane	0.070			mg/L	0.100		70	42-193			
o-Terphenyl	0.062			mg/L	0.0500		123	82-142			
Batch 5F18040 - EPA 3510C											
Blank (5F18040-BLK1)					Prepare	ed: 06/18/201	5 15:46 Anal	yzed: 06/19/	2015 09:04		
Analyte	Decult	Elan	DOI	Unito	Spike	Source	04 DEC	%REC	000	RPD	N-+
TPH (C8-C40)	0 10	<u>1 IQY</u>	0 17	ma/l	Levei	<u>Result</u>	70REC	LIIIILS	RPU		notes
	0.10	U	0.17	III9/L							

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.



FL Petroleum Range Organics - Quality Control

Batch 5F18040 - EPA 3510C - Continued

Blank (5F18040-BLK1) Continu	ied				Prepare	ed: 06/18/201	5 15:46 Anal	yzed: 06/19/	2015 09:04		
	Desult	E la <i>n</i>		lle:te	Spike	Source		%REC		RPD	. .
	Kesuit	<u>riaq</u>	PQL	<u>Units</u>	Level	<u>Result</u>	%REC	Limits	RPD	Limit	Notes
n-Nonatriacontane	0.080			mg/L	0.100		80 106	42-193			
	0.055			III9/L	0.0500		100	02-142	2015 00.25		
LCS (5F18040-BS1)					Prepare	ed: 06/18/201	5 15:46 Anai	yzed: 06/19/	2015 09:35		
Analyte	Result	Flag	PQL	Units	Spike Level	Source	%REC	%REC Limits	RPD	RPD Limit	Notes
TPH (C8-C40)	1.5		0.17	ma/L	1.70	<u>itesuit</u>	90	55-118			
n-Nonatriacontane	0 059			ma/l	0 100		50	47-193			
o-Terphenyl	0.055			ma/L	0.0500		109	82-142			
Matrix Spike (5F18040-MS1)					Prenar	ed: 06/18/201	5 15:46 Anal	vzed: 06/19/	2015 10.06		
Source: A 503600-03					Перик		5 15. 10 And	yzcu: 00/15/	2015 10:00		
Analyto	Pocult	Flag	POI	Unite	Spike	Source		%REC		RPD	Notos
	<u>Result</u>	<u>riay</u>	0 17	<u>ome</u> /	1 70	<u>Result</u>	%REC	<u>LIMITS</u>	RPD	Limit	Notes
	1.0		0.17	IIIg/L	1.70	0.10 0	90	41-101			
n-Nonatriacontane	0.069			mg/L	0.100		69	42-193			
o-Terphenyi	0.057			mg/L	0.0500		114	82-142			
Matrix Spike Dup (5F18040-MS	SD1)				Prepare	ed: 06/18/201	5 15:46 Anal	yzed: 06/19/	2015 10:37		
Source: A503600-03					Spike	Source		%REC		RPD	
Analyte	Result	Flag	POL	<u>Units</u>	Level	Result	%REC	Limits	RPD	<u>Limit</u>	Notes
TPH (C8-C40)	1.6		0.17	mg/L	1.70	0.10 U	93	41-101	3	20	
n-Nonatriacontane	0.058			mg/L	0.100		58	42-193			
o-Terphenyl	0.056			mg/L	0.0500		113	82-142			
Classical Chemistry Parameters	Quality Con	trol									
Batch 5F12006 - NO PREP											
Blank (5F12006-BLK1)					Prepare	ed: 06/12/201	5 08:50 Anal	yzed: 06/12/	2015 09:31		
Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	0.052	U	1.0	ma/L		<u>itesuit</u>					
Sulfate	0.07	U	5.0	mg/L							
LCS (5F12006-BS1)				-	Prepare	ed: 06/12/201	5 08:50 Anal	yzed: 06/12/	2015 09:43		
					Sniko	Fourse		04 DEC		PDD	
Analyte	Result	Flag	PQL	<u>Units</u>	Level	Result	%REC	Limits	RPD	Limit	Notes
Nitrate as N	10		1.0	mg/L	10.0		105	90-110			
Sulfate	52		5.0	mg/L	50.0		104	90-110			
Matrix Spike (5F12006-MS1)					Prepare	ed: 06/12/201	5 13:00 Anal	yzed: 06/12/	2015 13:32		
Source: A503357-01											
Analyte	<u>Res</u> ult	Flag	POL	<u>Uni</u> ts	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	11		1.0	ma/L	10.0	0.50	107	90-110			
Sulfate	58		5.0	mg/L	50.0	3.6	108	90-110			



Classical Chemistry Parameters - Quality Control

Matrix Spike (5F12006-MS2)					Prepare	ed: 06/12/201	5 14:13 Anal	yzed: 06/12/	2015 18:05		
Source: A503359-05											
nalvte	Result	Flag	PQ <u>L</u>	Un <u>its</u>	Spike Level	Source	%REC	%REC	RPD	RPD Limit	Not
trate as N	13	<u></u>	1.0	 ma/L	10.0	2.7	105	90-110	··· -	<u></u>	<u></u>
Ilfate	66		5.0	mg/L	50.0	13	107	90-110			
Matrix Spike Dup (5F12006-M	ISD1)				Prepar	ed: 06/12/201	5 13:00 Anal	yzed: 06/12/	2015 13:44		
Source: A503357-01											
lalyte	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Not
rate as N	11		1.0	mg/L	10.0	0.50	105	90-110	2	10	
fate	57		5.0	mg/L	50.0	3.6	106	90-110	2	10	
Matrix Spike Dup (5F12006-M	ISD2)				Prepare	ed: 06/12/201	5 14:13 Anal	yzed: 06/12/	2015 18:17		
Source: A503359-05					Spike	Source		%REC		RPD	
nalvte	Result	Flag	POL	Units	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Not
rate as N	13		1.0	mg/L	10.0	2.7	103	90-110	1	10	
lfate	66		5.0	mg/L	50.0	13	106	90-110	1	10	
Batch 5F13001 - NO PREP											
Blank (5F13001-BLK1)					Prepare	ed: 06/13/201	5 13:15 Anal	yzed: 06/13/	2015 13:40		
nalvte	Result	Flag	POL	Units	Spike Level	Source	%REC	%REC	RPD	RPD Limit	Not
thophosphate as P	0.014	U	0.040	ma/L	2012.	<u>NCoun</u>	/01122	<u></u>		<u></u>	
LCS (5F13001-BS1)	-	-			Prepare	ed: 06/13/201	5 13:15 Anal	yzed: 06/13/	2015 13:40		
					Snike	Source		%PFC		חספ	
nalyte	Result	<u>Flaq</u>	POL	<u>Units</u>	Level	Result	%REC	Limits	RPD	Limit	Not
thophosphate as P	0.42		0.040	mg/L	0.400		106	90-110			
Matrix Spike (5F13001-MS1)					Prepare	ed: 06/13/201	5 13:15 Anal	yzed: 06/13/	2015 13:40		
Source: A503546-01					Snika	Source		0/- DEC		מפפ	
nalyte	Result	Flag	PQL	Units	Level	Res <u>ult</u>	%REC	<u>Limits</u>	RPD	Limit	Not
rthophosphate as P	0.45		0.040	mg/L	0.400	0.014 U	112	90-110		-	QM
Matrix Spike Dup (5F13001-M	ISD1)				Prepare	ed: 06/13/201	5 13:15 Anal	yzed: 06/13/	2015 13:40		
Source: A503546-01					2-: !ra	6					
	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	Spike Level	Source <u>Result</u>	%REC	%REC Limits	RPD	RPD <u>Limit</u>	<u>No</u> í
nalyte			0.040	ma/l	0 400	0.01411	112	90-110	0.2	10	OM
nalvte thophosphate as P	0.45		0.040	IIIg/L	0.400	0.0110			0.2		Q,

					Snike	Source		%RFC		RPD	
Analyte	<u>Result</u>	<u>Flag</u>	PQL	<u>Units</u>	Level	Result	%REC	Limits	RPD	Limit	Notes
Lead	2.50	U	10.0	ug/L							



Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 5F15003 - EPA 3005A - Continued

LCS (5F15003-BS1)					Prepared: 06/15/2015 09:28 Analyzed: 06/16/2015 10:51								
Analyte	Result	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes		
Lead	499		10.0	ug/L	500		100	80-120					
Matrix Spike (5F15003-MS	51)				Prepare	ed: 06/15/201	5 09:28 Anal	yzed: 06/16/	2015 10:53				
Source: B502510-17													
Analyte	Result	<u>Flaq</u>	<u>PQL</u>	<u>Units</u>	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes		
Lead	477		10.0	ug/L	500	2.50 U	95	75-125					
Matrix Spike Dup (5F1500	3-MSD1)				Prepare	ed: 06/15/201	5 09:28 Anal	yzed: 06/16/	2015 10:55				
Source: B502510-17													
Analyte	Result	Flag	PQL	Units	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes		
Lead	474		10.0	ug/L	500	2.50 U	95	75-125	0.6	20			



FLAGS/NOTES AND DEFINITIONS

- PQL: Practical Quantitation Limit.
- **B** Results are based upon membrane filter colony counts that are outside the method indicated ideal range.
- **I** The reported value is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL).
- J Estimated value.
- **K** Off-scale low; Actual value is known to be less than the value given.
- L Off-scale high; Actual value is known to be greater than value given.
- M Presence of analyte is verified but not quantified; the actual value is less than the MRL but greater than the MDL.
- **N** Presumptive evidence of presence of material.
- **O** Sampled, but analysis lost or not performed.
- **Q** Sample exceeded the accepted holding time.
- **T** Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
- **U** Indicates that the compound was analyzed for but not detected.
- V Indicates that the analyte was detected in both the sample and the associated method blank.
- Y The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
- **Z** Too many colonies were present (TNTC); the numeric value represents the filtration volume.
- **?** Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
- * Not reported due to interference.
- **J-02** Result is estimated due to bias in the associated laboratory control sample (LCS).
- **QL-02** The associated laboratory control sample exhibited high bias; since the result is ND, the impact on data quality is minimal.
- **QM-07** The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QS-03 Surrogate recovery outside acceptance limits

ENVIR 10775 Cent Orlando, FI (407) 826-5	Honmental Conservation Labora tral Port Dr. 4810 Executive Park Court, Suite L 32824 Jacksonville, FL 32216-6069 5314 Fax (407) 850-6945 (904) 295-3007	TORIES CHAIN-OF-CUSTODY RECORD www.encolabs. e 111 102-A Woodwinds Industrial Ct. Gary, NC 27511 Page of 6210 (919) 467-3090 Fax (919) 467-3515 Page of
Client Name	Project Number	Requested Analyses Requested Turnarou
Andreyev Engineering (AN015) Address 1170 W. Minneola Avenue	Project Name/Desc Amoco #89	Times 1998 1998 Note : Rush requests subject acceptance by the facility
Clermont, FL 34711 Tel Fax (352) 241-0508 (352) 241-0977 Sampler(s) Name, Attricion (Pring) //1904 //0000 (2000) Sampler(s) Signature	Po # / Billing Info Reporting Contact Rob Cornelius Billing Contact Rob Cornelius Site Location / Time Zone	Milestand Standard 8270D PAH SIM 8270D PAH SIM 8011 EDB 8011 EDB 9260B Arom 9260B Arom 8011 EDB 9011 EDB 9011 EDB 9011 Ebb 9011 BB 9013 BB 90305 BB 90305 BB 90305 BB 90305 BB 90305 BB <
Item # Sample ID (Field Identification) Collection Date $MW-2$ $6-12-15$ $MW-16$ 4 $MW-17$ 4 $MW-27$ 4 $MW-17$ 4 $MW-5$ 4	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	V V V V V Sample Comments V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V <td< td=""></td<>
Sample Kit Prepared By Date/Time	5 Breinquished By 5 Breinquished By Relinquished By Relinquished By Cooler #'s & Temps on Receipt LG-231 2.1°C	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) * Preservation; I-Ice H-HCI N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments) Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

APPENDIX F

Omega Environmental Services, Inc.

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INITIAL REMEDIAL ACTION REPORT

for the

AMOCO #89 305 SOUTH MAIN STREET WILDWOOD, FLORIDA FDEP FACILITY ID #608516885

Prepared for

W. RONALD GASQUE 12729 COUNTY ROAD 103 OXFORD, FLORIDA 34484

Prepared by

OMEGA ENVIRONMENTAL SERVICES, INC. 2999 ALL AMERICAN BOULEVARD ORLANDO, FLORIDA 32810

PROJECT NO. 104-0021

MAY 4, 1994



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TABLE OF CONTENTS

1.0	INTRO 1.1 1.2	DUCTION	
2.0	FIELD 2.1 2.2	METHODOLOGY AND RESULTS	
3.0	SUMN	ARY AND CONCLUSIONS	,

FIGURES

Figure	1	Site	Vicinity	Map
· · ə · · · ·		~ •	53.1	

- Site Plan Figure 2
- IRA Soil Sample Location Grid Figure 3

PHOTOGRAPHS

Photographs 1-8

TABLES

.

	a many of Organic Vapor Analyses
Table 1	Summary of Organio
140.0 -	Summery of Organic Vapor Analyses - Alca I
Table 2	Summary of Organice of Area 2
	Summary of Organic Vapor Analyses - Area -
Table 5	

Table 3

APPENDICES

- **IRA** Notification Appendix A
- IRA Report Form Appendix B
- Soil Preburn Analytical Results
- IRA Details and Certificate of Materials Recycling Area 1 Appendix C
- Appendix D Diesel Fuel Disposal Receipt
- Appendix E
- Tank Removal Forms Appendix F
- Tank Scrapping Receipt Contaminated Soil Disposal Manifests and Certificate of Materials Appendix G
- Appendix H

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- Recycling Area 2
- Clean Backfill Manifests Area 2 Appendix I

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Page

Amoco #89 Project No. 104-0021

1.0 INTRODUCTION

1.1 Site Location and Background Information

Omega Environmental Services, Inc. (Omega) Gasque, owner of the former Amoco #89 facility, to conduct Initial Remedial Action (IRA) activities associated with petroleum contamination at the former Amoco #89 facility. The site is located at 305 South Main Street, Wildwood, Florida and is located within Section 6, Township 19 South, Range 23 East as referenced on the USGS, Wildwood, Florida Quadrangle Map. A site vicinity map is provided on Figure 1.

A Discharge Notification Form was submitted and the site was determined eligible for State Administered Cleanup under the Early Detection Incentive (EDI) Program on September 14, 1990. The site was subsequently switched from the State Administered Cleanup to the Responsible Party Cleanup Program on February 18, 1994.

A site plan illustrating the site layout is provided on Figure 2. As indicated, prior to the IRA, the site contained three 4,000 gallon gasoline underground storage tanks and one 2,000-gallon underground diesel fuel tank located in the south-central portion of the site. A pump island containing four fuel dispensers was located in the eastern-central portion of the site. Based on information provided by Mr. Gasque, two 1,000-gallon underground gasoline storage tanks were formerly located immediately east of the pump island area.



1

Amoco #89 Project No. 104-0021

1.2 Scope of Work

The scope of work performed during the IRA included the following tasks:

- Completed forty-four (44) hand auger soil borings to confirm the presence or absence of excessively contaminated soil in the vicinity of the pump island, former tank area, existing tank area and interconnecting yard piping.
- Excavated excessively contaminated soil within Area 1 (illustrated on Figure 3). Following on-site thermal treatment, soil was backfilled into the excavated area.
- Removed three 4,000-gallon underground storage tanks and one 2,000-gallon underground storage tank and excavated excessively contaminated soil from around and beneath the tanks within Area 2 (illustrated on Figure 3).
- Following tank removal and excavation of excessively contaminated soil from Area 2, excavation was backfilled with clean fill and regraded.
- Coordinated transport and thermal treatment of excessively contaminated soil at Soil Treatment Services, Inc., located in Kissimmee, Florida.
- Prepared IRA Notification and Report Forms (Appendix A). The IRA Notification Form was submitted to the Florida Department of Environmental Protection (FDEP), Bureau of Waste Cleanup on January 24, 1994. A completed IRA Report Form is provided in Appendix B.



Amoco #89 Project No. 104-0021

2.0 FIELD METHODOLOGY AND RESULTS

Prior to performing IRA activities, 44 hand auger borings were completed at the site to confirm and delineate the occurrence of excessively contaminated soil at the site. Auger boring locations are illustrated on Figure 2 and organic vapor analyses (OVA) are summarized on Table 1. All organic vapor analyses were performed in accordance with Chapter 17-770.200, FAC. As indicated on Table 1, the occurrence of excessively contaminated soil was confirmed in the vicinity of the former tank area and the pump island and UST piping areas. Photographic documentation of on-site IRA activities is provided on Photographs 1 and 8.

Organic vapor analyses were conducted on January 14, 1994 and at that time, the water table was encountered at an approximate depth of 6.5 feet below land surface.

2.1 IRA Activities - Area 1

Prior to soil excavation activities within Area 1, three soil preburn samples were collected and laboratory analyzed for EPA Method 8010/8020 parameters, total petroleum hydrocarbons by EPA Method 9073 and 8 RCRA Metals (Totals) including Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium and Silver. The soil preburn samples were collected on January 15, 1994 and submitted to ENCO Laboratories for laboratory analyses. Laboratory analytical results are provided in Appendix C.

Following receipt of laboratory analytical results, removal of concrete and excavation of soil within Area 1 (Figure 3) was initiated on January 20, 1994. At that time, a mobile thermal soil treatment contractor mobilized to the site (Mobile Reclaim, Inc.) to initiate thermal treatment of excavated soils. The pump island canopy was demolished during excavation activities. Thermal treatment of soils was initiated on January 21 and completed on January 22, 1994. During this time period, a total of 111 loads of excessively contaminated soil were scooped from a soil


Amoco #89 Project No. 104-0021

stockpile using a front-end loader and deposited into the intake hopper of the mobile soil treatment rig. The excavation within Area 1 is illustrated on Figure 3. This excavation was performed to a depth of 5.5 feet below land surface. The water table was not encountered during excavation activities within Area 1. As indicated on Figure 3, a grid pattern based on 5-foot grid spacing was measured out at the site in order to collect supplemental soil samples at various locations and depths to supplement initial soil organic vapor analyses at the site. Soil organic vapor analytical results measured during the IRA excavation activities within Area 1 are provided on Table 2. All OVA analyses were conducted in accordance with Chapter 17-770.200. During IRA activities within Area 1, an estimated total of 278.98 tons of excessively contaminated soil was excavated, thermally treated and subsequently backfilled upon receipt of soil post-burn analytical results. A description of the method used for determining soil tonnage is provided in Appendix D along with the Certificate of Materials Recycling, time log of bucket loading into the thermal treatment hopper and soil post-burn analytical results.

Following backfilling of thermally treated soils, Area 1 was repaved with concrete and the pump island canopy was reconstructed.

2.2 IRA Activities - Area 2

Although no excessively contaminated soil was detected during the initial hand auger boring program (see Auger Borings AB-21 through AB-37, Figure 2 and Table 1), the site owner contracted Omega to properly close out and remove all underground storage tanks from the site. On March 1, 1994, Omega subcontracted to Andrew Bell, Inc. (PC-C048399) to properly close out and remove the four USTs at the site. Documentation of the removal of the tanks is provided in Appendix E. During tank removal, all tanks were observed to be in sound condition with no apparent leaks; however, high organic vapors and strong petroleum odors were observed around all tank filler ports. Due to the occurrence of soil contamination, an additional grid pattern was measured out in the tank area as illustrated on Figure 3. No tank bottom sludges were encountered during tank removal; however, approximately 55-gallons of off-spec diesel fuel/algae



Amoco #89 Project No. 104-0021

mix was removed from the diesel tank and properly disposed of by Industrial Waste East, Inc. A disposal receipt is provided in Appendix E.

Following tank removal, the tank excavation was observed to be dry; however, significant organic vapor concentrations were measured below the tanks in the approximate area of the tank filler ports as well as along the northern side of Tank #1 (see Figure 3). A summary of organic vapor analyses results measured within the tank area (Area 2) is provided on Table 3. Following removal, the tanks were scrapped Aaron Scrap Metal. A receipt for tank scrapping is provided in Appendix G.

Following excavation of excessively contaminated soil from around the tanks, a total of 123.69 tons of excessively contaminated soil was transported to Soil Treatment Services, Inc. located in Kissimmee, Florida, for thermal soil treatment. Documentation of soil removal is provided with the Soil Disposal Manifests and Certificate of Materials Recycling (Appendix H). Following excavation of all excessively contaminated soil within Area 2, 220 cubic yards of clean fill was transported to the site and backfilled to grade. Manifests for clean fill are provided in Appendix I. No concrete or repaying was performed within Area 2.



Amoco #89 Project No. 104-0021

3.0 SUMMARY AND CONCLUSIONS

Upon completion of the IRA documented in this report, a total of 284.95 cubic yards of excessively contaminated soil was removed from two areas at the site. Excessively contaminated soil removed from Area 1 was treated on-site using a mobile thermal treatment rig while soil removed from Area 2 was transported to Soil Treatment Services, Inc. for off-site disposal.

Based on the results of the IRA, excessively contaminated soil has been detected and a petroleum contamination assessment is currently being conducted at the facility.

All underground storage tanks at the facility were removed on March 1, 1994, and properly disposed of by Andrew Bell, Inc. (PC-C048399).

DHK-41

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TABLES

		Sampled	Summary of 305 Wil 1/14/94 - We	TABLE I Organic Vapor Ar Amoco #89 S. Main Street dwood, Florida atter Table Encount	nalyses Hered at 6.5 feet
Sample Location	Depth (feet)	Unfiltered (ppm)	Filtered (ppm)	Total Hydrocarbons (ppm)	Soil Profile and Comments
AB-1	l 3 5 6	550 2,000 2,300 >5,000	<1 3 <1 <1 .	550 1,997 2,300 >5,000	1' Dark brown fine sand 3' 5' Tan fine sand 6'
AB-2	1 3 5	1,000 >5,000 >5,000	7 14 3	993 >4,986 >4,997	1' Dark brown fine sand 3' 5' Tan fine sand
AB-3	l 3 5	1,600 4,000 >5,000	3 2 <1	1,597 3,998 >5,000	l' Dark brown fine sand 3' 5' Tan fine sand
AB-4	1 3 5	<1 1,500 4,600	<1 3 <1	<1 1,497 4,600	1' Dark brown fine sand 3' 5' Tan fine sand
AB-5	1 3 5 6	4,200 3,500 >5,000 >5,000	<1 5 <1 <1	4,200 3,495 >5,000 >\$,000	1' Dark brown fine sand 3' 5' Brown fine sand 6' Water @ 6.5'
AB-6	1 3 5	150 1,800 >5,000	<1 <1 <1	150 1,800 >5,000	1' Tan fine sand 3' Dark brown fine sand 5'
AB-7	1 3 5	12 5 600	<1 <1 <1	12 5 600	1' Dark brown fine sand 3' 5' Tan fine sand
AB-8	l 3 5	<1 <1 <1		<1 <1 <1	1' Dark brown fine sand 3' 5' Tan fine sand
AB-9	1 3 5	<1 <1 <1		<1 <1 <1	l' Dark brown fine sand 3' 5' Tan fine sand
AB-10	l 3 5	<1 <1 <1		<1 <1 <1	l' Dark brown fine sand 3' 5' Tan fine sand
NOTES: 1) 2)	ppm = par Readings f methane;	ts per million for unfiltered san readings for filte	nples are total ered samples a	l hydrocarbon read re methane only.	lings including

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		<u> </u>										
				TABLE ((continued)								
1				(**********								
			Summary of	i Organic Vapor A	nalyses							
	305 S. Main Street											
	Wildwood, Florida											
L. <u></u>		Sample	ad 1/14/94 - W	ater Table Encoun	tered at 6.5 Feet							
]	_		Total	Τ							
Sample	Depth	Unfiltered	Filtered	Hydrocarbons								
Location	(feet)	(ppm)	(ppm)	(ppm)	Soil Profile and Comments							
AB-11	1	<1		<1	1' Dark brown fine sand							
	3	4	 	4	3'							
	<u> </u>	2,500	<1	2,500	5' 1an line sand							
AB-12	1 1	2,100	<1	2,100	I' Brown fine sand							
•		2,400	<1	2,400	3'							
1		>3,000 >5,000	+ <1	>5 000	6'							
	'	- 51000			l							
AB-13		1,500	2	L,498	l' Dark brown fine sand							
	ן נ >	1,300		>7 6 9 9 8	S' Tan fine sand							
ł	6	>5,000	s l	>4,995	6							
	<u>↓ </u>				U Tes Es and							
AB-14												
	5	<1		<1	5'							
	6	<1		<1	6'							
AB-15	┟╺┯╾┥	160	<1	160	1' Dark brown fine sand							
	3	150	<1	150	3' Gray fine sand							
	5	270	<1	270	5' Tan fine sand							
_	6	100	<1	100								
AB-16	1	2,000	3	1,997	l' Dark brown fine sand							
	3	3,000	9	2,991	3' Gray fine sand							
	S	>5,000	9	>4,991	5' Tan fine sand							
L	<u> </u>	>2,000	LU	29,990	о 							
AB-17	1 1	3,000	1	2,999	1' Dark brown fine sand							
	3 !	4,100	3	4,097	3'							
		>5,000	4	>4,990	S' Lan rine sang							
<u> </u>		~J.000	ļ									
AB-18		2,000	<1	2,000	1' Dark brown fine sand							
		1,200	<[1,200	3' Gray fine sand							
ļ		1.000	<	1.000	6'							
	<u> </u>	J										
AB-19		Í	Obstruction									
		i .	Obstruction									
	<u></u>	<u> </u>										
NOTES: 1) p	pm = parts	per million	nles are total h	vdrocarbon reading	as including							
T	2) Readings for untillered samples are total hydrocarbon readings including methane; readings for filtered samples are methane only.											

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	<u> </u>			TABLE 1 (continued)	
		Sample	Summary of 30. Wi ed {/14/94 - W	f Organic Vapor A Amoco #89 5 S. Main Street ildwood, Florida Vater Table Encoun	nalyses nered at 6.5 Feet
Sample Location	Depih (feet)	Unfiltered (ppm)	Filtered (ppm)	Total Hydrocarbons (ppm)	Soil Profile and Comments
AB-20	 3 5 6	<1 <1 <1 <1 <1		<i <i <i <i< td=""><td>1' Dark brown fine sand 3' 5' Tan fine sand 6'</td></i<></i </i </i 	1' Dark brown fine sand 3' 5' Tan fine sand 6'
AB-21	1 3 5 6	< < < <		<1 <1 <1 <1 <1	1' Dark brown fine sand 3' 5' Brown fine sand 6'
AB-22	1 3 5 6	বা বা বা বা		< < < <	1' Dark brown fine sand 3' 5' Brown fine sand 6'
AB-23	L 3 5 6	<1 <1 <1 <1		<1 <1 <1 <1 <1	l' Dark brown fine sand 3' 5' Brown fine sand 6'
AB-24	L 3 5 6	। <। <। <।		1 <1 <1 <1 <1	l' Dark brown fine sand 3' 5' 6'
AB-25	1 3 5 6	<1 <1 <1 <1		<1 <1 <1 <1 <1	l' Brown fine sand 3' 5' 6'
AB-26	l 3 5 6	<1 <1 <1 <1 <1		বা বা বা বা	1' Dark brown fine sand 3' Brown fine sand 5' 6'
AB-27	1 3 5	<1 <1 4		< < 4	1' Brown fine sand 3' 5' Dark brown fine sand
NOTES: 1) p 2) F	opm = parts Readings for nethane; re	per million r unfiltered samp adings for filtere	ples are total h ed samples are	ydrocarbon reading methane only.	gs including

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			(TABLE 1 continued)	
		Sample	Summary of 6 305 Wild d 1/14/94 - Wa	Organic Vapor An Amoco #89 S. Main Street Iwood, Florida ter Table Encount	alyses ered at 6.5 Feet
Sample	Depth (feet)	Unfiltered (ppm)	Filtered (ppm)	Total Hydrocarbons (ppm)	Soil Profile and Comments
AB-28	L 3 5 6	<1 <1 <1 <1		ব ব ব ব	1' Brown fine sand 3' Tan fine sand 5' 6' Brown fine sand
AB-29	l 3 5	<1 <1 <1		<1 <1 <1	1' Dark brown fine sand 3' 5' Brown fine sand
AB-30	1 3 5 6	<1 <1 <1 <1		<1 <1 <1 <1 <1	l' Dark brown line sand 3' 5' Tan fine sand 6'
AB-31	1 3 5 6	< < < <		<1 <1 <1 <1 <1	1' Brown fine sand 3' 5' 6' Tan fine sand
AB-32	1	<1 <1 <1		<1 <1 <1	1' Dark brown fine sand 3' 5' Tan fine sand
AB-33	1 3 5 6	<1 <1 <1 <1 <1		<1 <1 <1 <1	 Dark brown fine sand 3' 5' Brown fine sand 6' Tan fine sand
AB-34	1 3 5	<1 <1 <1 <1 <1		বা বা বা বা	1' Gray fine sand 3' 5' Brown fine sand
AB-35	0 1 3 5	<1 <1 <1 <1 <1		<1 <1 <1 <1	1' Dark brown fine sand 3' Brown fine sand 5' Tan fine sand 6'

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 Readings for untiltered samples are total hydrocarbon readings methane; readings for filtered samples are methane only.

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				TABLE 1 (continued)	
		Sample	Summary of 305 Wi d 1/14/94 - Wi	Organic Vapor A Amoco #89 5 S. Main Street Idwood, Florida ater Table Encount	nalyses tered at 6.5 Feet
Sample Location	Depth (feet)	Unfiltered (ppm)	Filtered (ppm)	Total Hydrocarbons (ppm)	Soil Protile and Comments
AB-36	l 3 5 6	<1 <1 <1 <1		বা বা বা বা	l' Dark brown fine sand 3' 5' Tan fine sand 6'
AB-37	1 3 5 6	<1 <1 <1 <1		< < < <	1' Dark brown fine sand 3' 5' Tan fine sand 6'
AB-38	1 3 5	্য ব্য ব্য		4 4 4	l' Dark brown fine sand 3' 5' Tan fine sand
AB-39	L 3 5	<1 <1 <1	4414 	<1 <1 <1	1' Dark brown fine sand 3' 5'
AB-40	1 3 5 7	30 9 5 22	<1 <1 <1 1	30 9 5 21	1' Dark brown fine sand 3' 5' Tan fine sand 7'
AB-41	1 3 5	< < <		<1 <1 <1	1' Dark brown fine sand 3' 5'
AB-42	L 3 5	<1 <1 <1		<1 <1 <1	1' Tan fine sand 3' Dark brown fine sand 5'
AB-43	1 3 5	<1 <1 <1		<1 <1 <1	1' Gray fine sand 3' 5' Tan fine sand
AB-44	1 3 5	<1 <1 <1		্য ব্য ব্য	1' Gray fine sand 3' 5'
NOTES: 1) 2)	ppm = parts Readings fo	s per million or unfiltered sam	ples are total f	nydrocarbon readin e methane only.	ngs including

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DHK-40

TABLE 2										
Summary of Organic Vapor Analyses - Area I Amoco #89 305 S. Main Street Wildwood, Florida Sampled 1/20-21/94										
Sample Location	Depth (feet)	Unfiltered (ppm)	Filtered (ppm)	Total Hydrocarbons (ррт)	Soil Profile and Comments					
A-1	1 3 5	2 <1 <1	 	2 <1 <1						
A-2	1 3 5	<1 <1 <1	< < <	<1 <1 <1						
A-3	1 3 5	<1 <1 <1	<1 <1 <1	<1 <1 <1						
A-4	1 3 5	<1 <1 <1	<1 <1 <1	ব ব ব						
A-5	L 3 5	8 3 2		8 3 2						
A-6	1 3 5	<1 <1 <1	বা বা বা	<1 <1 <1						
A-7	1 3 5	<1 <1 <1		<1 <1 <1						
B-1	1 3 5	60 2,500 >5,000	0 2 5	60 2,498 >4,995						
B-2	l 3 5	320 2,000 >5,000	3 3 6	317 1,997 >4,994						
В-3	1 3 5	800 320 1,700	3 0 3	797 320 1,697						
B-4	1 3 5	1,700 1,700 >5,000	3 3 4	1,697 1,697 >4,996						
NOTES: 1) p 2) F	opm = parts Readings fo methane; re	per million r unfiltered sam adings for filtere	ples are total h ed samples are	ydrocarbon reading methane only.	gs including					

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		Su	mmary of Org	TABLE 2 (continued) anic Vapor Analyse	is - Area I
			305 Wi San	Amoco #89 5 S. Main Street Idwood, Florida Ipled 1/20-21/94	
Sample Location	Depth (feet)	Untilitered (ppm)	Filtered (ppm)	Total Hydrocarbons (ppm)	Soil Protile and Comments
B-5	1 3 5	3,200 >5,000 >5,000	5 19 - 3	3,195 >4,981 >4,997	
B-6	l 3 5	3,800 1,700 >5,000	4 10 18	3,796 1,690 >4,982	
B-7	1 3 5	500 150 1,100	3 0 3	497 150 1,097	
C-1	1 3 5	>5,000 2,800 >5,000	6 2 18	>4,994 2,798 >4,982	
C-2	1 3 5	2,100 >5,000 >5,000	1 5 12	2,099 >4,995 >4,988	
C-3	1 3 5	2,700 4,300 >5,000	<1 4 4	2,700 4,296 >4,996	
C-4	1 3 5	2,600 2,650 >5,000	7 4 3	2,593 2,646 >4,997	
C-5	l 3 5	2,100 2,400 3,100	<1 <1 8	2,100 2,400 3,092	
C-6	1 3 5	>5,000 2,000 4,500	4 17 16	>4,996 1,983 4,484	
C-7	1 3 5	2,200 1,200 >5,000	4 5 6	2,196 1,195 >4,994	
NOTES: 1) 2)	ppm = part Readings f	s per million or unfiltered san	f nples are total red samples ar	>4,994 hydrocarbon reading e methane only.	gs including

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		Sum	T (e mary of Organ A 305 ! Wild Some	TABLE 2 ontinued) nic Vapor Analyses moco #89 S. Main Street wood, Florida	- Area 1
Sample	Depth (feet)	Unfiltered (ppm)	Filtered (ppm)	Totaí Hydrocarbons (ppm)	Soil Profile and Comments
D-1	1 3 5	600 >5,000 >5,000	<; 5 5 .	600 >4,995 >4,995	
D-2	l 3 5	>5,000 >5,000 >5,000	4 55 7	>4,996 >4,945 >4,993	
D-3	1 3 5	>5,000 >5,000 >5,000	22 13 10	>4,978 >4,987 >4,990	
D-4	1 3 5	>5,000 4,500 >5,000	11 6 29	>4,989 4,494 >4,971	
D-3	1 3 5	>5,000 3,500 3,600	21 15 3	>4,979 3,485 3,597	
D-6	1 3 5	>5,000 3,700 4,000	44 27 8	>4,956 3,673 3,992	
D-7	1 3 5	>5,000 >5,000 >5,000	5 9 31	>4,995 >4,991 >4,969	
E-l	1 3 5	2,500 >5,000 >5,000	60 18 35	2,440 >4,982 >4,965	
E-2	1 3 5	>5,000 >5,000 >5,000	80 33 170	>4,920 >4,967 >4,830	
E-3	l 3 5	1,950 >5,000 >5,000	3 140 100	1,947 >4,860 >4,900	

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<u> </u>			(TABLE 2 continued)	
		Sur	nmary of Orga 305 Will Sam	nic Vapor Analyse Amoco #89 S. Main Street dwood, Florida pled 1/20-21/94	s - Area 1
Sample	Depth (feet)	Unfiltered (ppm)	Filtered (ppm)	Total Hydrocarbons (ppm)	Soil Profile and Comments
E-4	1 3 5	2,100 >5,000 >5,000	26 34 40 -	2,074 >4,966 >4,960	
E+J	1 3 5	2,150 >5,000 >5,000	7 6 49	2,143 >4,994 >4,951	
E-6	l 3 5	2,400 >5,000 >5,000	23 60 28	2,377 >4,940 >4,972	
E-7	1 3 5	2,100 2,700 4,800	12 29 50	2,088 2,671 4,750	
F-1	1 3 5	2,900 >5,000 >5,000	41 290 240	2,859 >4,710 >4,760	
F-2	l 3 5	900 >5,000 >5,000	<1 1,100 210	900 >3,900 >4,790	
F-3	l 3 5	2,500 3,000 >5,000	39 49 19	2,461 2,951 >4,981	
F-4	1 3 5	1,700 3,200 >\$,000	11 46 140	1,689 3,154 >4,860	
F-5	1 3 5	500 2,800 >5,000	2 34 170	498 2,766 >4,830	
F-6	l 3 5	2,000 2,600 1,200	6 23 7	1,994 2,577 1,193	
F-7		1,700 1,700 2,600	42 25 50	1,658 1,675 2,550	

2) Readings for unfiltered samples are total hydrocarbon readings methane; readings for filtered samples are methane only.

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		Sur	nmary of Orga 305 Wil Sam	nic Vapor Analyse Amoco #89 S. Main Street dwood, Florida pled 1/20-21/94	s - Area 1
Sample Location	Depth (feet)	Unfiltered (ppm)	Filtered (ppm)	Total Hydrocarbons (ppm)	Soil Profile and Comments
G-l	1 3 5	900 >5,000 >5,000	2 5 20	898 >4,995 >4,980	
G-2	1 3 5	>5,000 >5,000 >5,000	11 3 7	>4,989 >4,997 >4,993	
 G-3	1 3 5	1,200 2,300 5,000	8 6	l,200 2,792 4,994	
G→	1 3 5	1,100 2,300 5,000	2	1,100 2,298 4,999	
G-5	1 3 5	<1 <1 7		<1 <1 7	
G-6	1 3 5	210 1,000 180	7 17 13	203 983 167	
G-7	1 3 5	150 1,050 800	4 30 20	146 1,020 780	
H-1	l 3 5	50 1,000 4,000	<1 <1 <1	50 1,000 4,000	
H-2	l 3 5	2,600 2,500 >5,000	<1 9 11	2,600 2,491 >4,989	
<u> </u>	1 3 5	25 25 270	<1 <1 <1	25 25 270	
H-4	1 3 5	1 <1 <1	<1 <1 <1	। <1 <1	

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				ABLE 2 ontinued)	
		Sum	nmary of Organ A 305 Wild Samp	lic Vapor Analyse: moco #89 S. Main Street lwood, Florida iled 1/20-21/94	s - Area I
Sample	Depth (feet)	Unfiltered (ppm)	Filtered (ppm)	Total Hydrocarbons (ppm)	Soil Profile and Comments
Location H-5	(ieci)	42 22 27	<1 <1 <1 .	42 22 27	
Н-6	1	3 2 3		3 2 3	
H-7	1	 <1		! 1 <1	
I-1	1	4 135 90	 2 <1	4 133 90	
1-2	1	3 20 2	<	3 20 2	
[-3		<1 <1 29	<1 <1 <1	<1 <1 29	
J-1		<1 9 11		<1 9 11	
NOTES:	1) ppm = pa 2) Readings methane	for unfiltered s readings for fil	amples are tota itered samples	Il hydrocarbon rea are methane only.	dings including

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				TABLE 3	
		Su	mmary of Orga 305 Wil Sa	nic Vapor Analys Amoco #89 S. Main Street dwood, Florida mpled 3/1/94	es - Area 2
Sample	Depth (feet)	Unfiltered (ppm)	Filtered (ppm)	Total Hydrocarbons (ppm)	Soil Profile and Comments
B-ł	I 3 3.5	64 250 80	<1 <1 <1	64 250 80	West end diesel tank
B-5	1 3 4	800 600 400	<1 23 12	800 577 388	East end, north tank
B-6	 	65 900 720	<1 80 29	65 820 691	
B-7	i 3 4.5	<1 6 8	<1 <1 <1	<1 6 8	
B-8	1 3 4,5	<1 28 <1	<1 12 <1	<1 16 <1	West end, north tank
C-4	1 3 4.5	130 600 570	9 31 19	121 569 551	Center tank, east end
C-5	1 3 4.5	<1 <1 <1	<1 <1 <1	<1 <1 <1	
C-6	1 3 4.5	<1 30 <1	<1 <1 <1	<1 30 <1	Center tank, west end
D-4	1 3 4.5	220 1,050 630	25 <1 11	195 1,050 619	South tank, east end
D-5	1 3 5	6 20 <1	<1 <1 <1	6 20 <1	South tank center
D-6	1 3 4.5	<] 6 <]	্য ব্য ব্য	<1 6 <1	South tank, west end

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NOTES: 1) ppm = parts per million
 2) Readings for unfiltered samples are total hydrocarbon readings including methane; readings for filtered samples are methane only.

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TABLE 3 (continued) Summary of Organic Vapor Analyses - Area 2 Amoco #89 305 S. Main Street Wildwood, Florida Sampled 3/1/94						
Sample Location	Depth (feet)	Unfiltered (ppm)	Filtered (ppm)	Total Hydrocarbons (ppm)	Soil Profile and Comments	
South Wall of Excavation	3 3 3	<1 <1 <1	<1 <1 <1.	<1 <1 <1	Southeast corner Center of south wall Southwest corner	
North Wall of Excavation	3 3 3	9 <1 <1	<1 <1 <1	9 <1 <1	Northeast corner Center of north wall Northwest corner	
West Wall of Excavation	3 3 3	<1 8 <1	<1 3 <1	<1 5 <1	Southwest corner Center of west wall Northwest corner	
East Wall of Excavation	333	12 4 1	5 <1 <1	7 4 1	Southeast corner Center of east wall Northeast corner	
 NOTES: 1) ppm = parts per million 2) Readings for unfiltered samples are total hydrocarbon readings including methane; readings for filtered samples are methane only. 						

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PHOTOGRAPHS

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IMAGE QUALITY

AS YOU REVIEW THE NEXT GROUP OF IMAGES, PLEASE NOTE THAT THE ORIGINAL DOCUMENTS WERE OF POOR QUALITY.

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View of site showing Pump Island and former tank area in foreground.



Photograph 2



View of existing tank area.



View of concrete removal from tank area.



Photograph 4

View of concrete removal from tank area.

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ESSI Omega



View of tank removal.



Photograph 6

View of excavation following removal of one tank.

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View of excavation in former Pump Island area.



Photograph 8

ESSI Omega

View of Mobile Soil Thermal Treatment Unit.

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APPENDIX A

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IRA Notification

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	TRANSMITTAL
roFlorida apt. F. Envicemental Prot.	TI-DATE 1-24-94
2600 Blain Stone Rd.	PACIECT NO. 103-1471
Tallahasm_ FL. 32399-24	00 ATTENTION BURGE of Waste
	chanup
	🗇 Under sebarate cover, the following:
Report C Proposal C Pretiminary C	rawings C - Final drawings C - Other C
_ Amoco # 89 - Wild	wood FL.
FDEP ID # 6085	6885
staded phase	Find the IRA
Notification Form	For the above
returned Facilities	s regired by
(m. 17.770,	
	· · · · · · · · · · · · · · · · · · ·
Phane do not he	sitate to contact
my office at (4	07) 298-1111 :5 you
need additional	information. An IRA
Report will be	completed and submitted
Following complete	lon of the IRA.
~	
	July 1
	David H. Kiria
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IMAGE QUALITY

AS YOU REVIEW THE NEXT GROUP OF IMAGES, PLEASE NOTE THAT THE ORIGINAL DOCUMENTS WERE OF POOR QUALITY.

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PETROLEUM CONTAMINATION INITIAL REMEDIAL ACTION NOTIFICATION FORM

This notification provides written confirmation of initial remedial action (IRA) as required by Chapter 17-770.300(5) and (3), Florida Administrative Code. Notification must be within three working days of initiation of an IRA. Upon completion of the IRA, an Initial Remedial Action Report should be submitted.

-	Facil	in Name: Amoco #89
<u>-</u> -		it advass: 305 S. Main St. Wildwood, FL
	zaci.	107 Addites 34783-4530
-`	DER F	active Number (12 applied of 194
•	Date	di Initiation di Ima. <u>I Flat Illa di Company</u>
1. 1. 1. v	MEE	PRODUCT RECOVERY (Please provide brief responses.)
	À .	Type of Product Discharged: NA
	2,	istimated quantut, debut
	с.	Utility Conduits (Attach Site Flan indicating locations
		and depties):
	ם.	Method of Product Recovery:N/A
	Ξ.	Type of Discharge During Product Recovery: N/A
	Ŧ.	Type of Treatment and Expected Effluent Quality from Any
	G.	Quantity and Disposal of Recovered Product: N/A
III.	. SOIL	EXCAVATION
	A.	Estimated Volume of Contaminated Soil Excavated (Attach Site Plan indicating location of excavation(s) and soil
		borings): 350 cubic yards (in place)

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Flanida Department of Environmental Regulation

FEB 1991

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Type of Product in Soil: (Assource)

- с. Method Used to Determine Excass Soil Contemination: +1T \supset and Jar-Hundspace pr 17-770
- Mathcd of Treatment or Disposal of Contaminated Soil: о. Thrmally triated on 5 mobile Reclaim

IV. REFORTING

This motification should be submitted to the appropriate Local . Program, if any, or to:

Florida Department of Environmental Regulation Eureau of Waste Cleanup 2600 Blair Stone Road

Tallahassee, Florida 32399-2400

NEAD P.G.) AVIT Person Completing For io- GuoloGis Title, Affiliation Signatura, Da ESSI OMEGA, Inc. (consiltant

FE3 1991

Florida Department of Environmental Regulation



APPENDIX B

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IRA Report Form

PETROLEUM CONTAMINATION INITIAL REMEDIAL ACTION REPORT FORM

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An Ir remedi requiz 17-77 may be approp	aitial Remedial Action report, summarizing the initial al action (IRA), should be prepared to satisfy the rements of Chapters 17-770.630(1)14; 17-773.500(1)(a)4; and 5.500(2)(a)4, Florida Administrative Code, (FAC). This form a used for the IRA report. The report should be sent to the priate local program and:
	Florida Department of Environmental Regulation Bureau of Waste Cleanup Engineering Support Section 2600 Blair Stone Road Tallahassee, FL 32399-2400
_	Amoco No. 89
I.	Reibity Address: 305 S. Main Street, Wildwood, Florida
	DER Facility Number (if applicable): 608516865 DER Facility Number (if applicable): 3/3/94 Date IRA Initiated: 1/20/94 Date IRA Completed: 3/3/94
II.	FREE PRODUCT RECOVERY
λ.	Type(s) of Product Discharged: N/A
в.	Quantity N/A (4210)
	1. Estimated Gullens N/A through (date)
	2. Gallons Recovered,
	3. Attach Land- Totals.
c.	Dates and Condon Attach a Scaled Site Plan, Indicating the Locations and Product Thickness in Wells, Boreholes, Excavations, or Utility Conduits and Wells Utilized for Recovery of Free Product.
D.	Method of Product Recovery: <u>N/A</u>
E.	Type of Discharge During Product Recovery: <u>N/A</u>
	MAY 1992
	م مربق میں

F. Type of Treatment, i.e., Oil/Water Separator: ____N/A

G. Attach Written Proof of Proper Disposal of Recovered Product: N/A

III. SOIL EXCAVATION

NOTE: Soil shall be defined as excessively contaminated using the procedure stated in Chapter 17-770.200(2), FAC. Representative soil sampling shall be performed as close to the time of excavation as possible, but at no time shall exceed three (3) months prior to the start of excavation. Stockpiled soils greater than thirty (30) days on site waiting for treatment and disposal, must be re-sampled immediately prior to disposal to assure soils are still excessively contaminated.

If soil sampling data indicates that the amount of soil that is excessively contaminated exceeds 1500 cubic yards, treatment of all excessively contaminated soil at the site shall be addressed in a remedial action plan, and no soil IRA activities shall be performed except for the removal of soils in the immediate vicinity of the tanks.

Only soil above the ambient water table at the time of excavation can be considered as excessively contaminated soil.

Unless the established weight per unit volume of 1.4 tons/cubic yard (as referenced in FAC Rule 17-775) is used for the excavated soil, the weight per unit volume must be determined by a field test (in which an accurately measured volume of soil is weighed) at the time of excavation.

A. Volume of Contaminated Soil Excavated in Cubic Yards: Area 1 = 196.6 yd³. Dimensions Including Depth of Excavation(s):

Area 2 = 88.35 yd^3 = 284.95 yd^3 total See Figure 2 for excavation dimensions

NOTE: Attach written proof from the Department in the form of an Alternate Procedure Approval Order authorizing excavating over 1500 cubic yards if applicable. Authorization must be prior to the excavation of soils.

B. Type(s) of Product in Soil: Gasoline & Diesel

Florida Department of Environmental Regulation

MAY 1992
- C. Depth (ft) to Ambient Groundwater at the Time of Excavation(s): 6.3 feet
- D. Did Dewatering (i.e. groundwater depression) Occur at Time of Excavation?: ______
- E. Type of Instrument and Method Used to Determine Excessive Soil Contamination: FID and Jar-Headspace Method per Chapter 17-770.200(2), FAC
- F. Attach a table that compares the OVA-FID readings taken with charcoal filter verses readings without filter. Include vertical depths for each sample.
- G. Using the OVA procedure for defining excessively contaminated soil as referenced in Rule 17-770.200(2), FAC, include a scaled site plan with the information listed below:

1. Location of excavation, old tank farm, dispensers, and product lines, present tank farm, and all soil samples. The corresponding OVA-FID readings for each soil sample (with charcoal filter and without) and its depth must be given.

Sampling Procedure is as follows:

Start sampling in a location where it is suspected that excessively contaminated soil exists. Sample from the first soil boring outward in a grid pattern, at five (5) to ten (10) foot intervals, until the perimeter of the excessively contaminated soil plume is defined. Vertical sampling should be performed starting approximately at the initial area of contamination and continued at three (3) foot intervals, or fraction thereof, until a depth approximately one (1) foot above the water table is reached.

H. Copies of Laboratory Analyses for Pre Treatment Soil Samples as Required in Chapter 17-775.410(3), Table II, FAC Must be Attached.

I.

Were Tanks Replaced at this Site?: <u>No</u>

Florida Department of Environmental Regulation

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MAY 1992

IV. SOIL TREATMENT AND DISPOSAL

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			•			contaminated
Α.	Nothod of		Treatment	٥£	Excessively	Concating
	Mechow	_		rmai tr	earment	
	soil:	<u>Area</u> Area	1 - On-site the 2 - Thermal Tre	atment	at STS, Inc.	

B. For Off Site Treatment and Disposal at Permitted STTF, Land Farms, or Landfills Attach Documentation From the Treatment Facility Which Confirms the Weight or Volume of Soil Treated and Date Received.

For Other Treatment and Disposal Methods (i.e. On-Site Land Farming, Bioremediation), Attach Post Treatment Laboratory Analyses for Each 250-300 Cubic Yards of Treated Soil in Accordance With Chapter 17-775.400 and the "Guidelines for Assessment and Remediation of Petroleum Contaminated Soils", Edition February 1991 or Most Current Revision.

For Mobile Thermal Treatment Units, Attach Laboratory Analysis per Chapter 17-775(5), FAC.

C. Method of Disposal of Contaminated Soil and Indicate Recipient and Address: <u>Area 1 - treated soil backfilled</u> <u>Area 2 - STS Facility, 3505 Pug Mill Road, Kissimmee, Florida 34741-6462</u>

V. ADDITIONAL COMMENTS:_____

David H. Kincaid, P Person Completing Signature Date	.G. Form 4-8-94 <u>Senior Geologist, ESSI Omega. Inc.</u> Title, Affiliation
	Florida Department of Environmental Regulation

MAY 1992

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APPENDIX C

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Soil Preburn Analytical Results

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Environmental Conservation Laboratories 10207 General Drive Orlando, Florida 32824 407 / 826-5314 Fax 407 / 850-6945



Laboratories DHRS Cartification No. 83316, E83182

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CLIENT : Env. Solutions & Services ADDRESS: 2999 All American Blvd. Orlando, FL 32810

REPORT # : 5704 DATE SUBMITTED: January 15, 1994 DATE REPORTED : January 18, 1994

PAGE 1 OF 8

ATTENTION: David Kincaid

SAMPLE IDENTIFICATION

Soil samples submitted and identified by client as:

AMOCO Wildwood 01/14/94

#1 -	ss-1	1945	(AB-12)
#2 -	ss-2	1745	(AB-5)
#3 -	SS-3	1755	(AB-16)

Vesey David

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LABORATORY MANAGER

ENCO LABORATORIES REPORT # : 5704 DATE REPORTED: January 18, 1994 REFERENCE : AMOCO Wildwood

PAGE 2 OF 8

RESULTS OF ANALYSIS

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EPA METHOD 8010 -	<u>55-1*</u>	55-2*	<u>units</u>
VOLATILE HALOCARBOND		1000 11	µg/kg
	1000 U		ug/kg
Dichlorodifluoromethane	1000 U	1000 U	µa/kg
Chloromethane	1000 U	1000 U	ua/ka
Vinvl Chloride	1000 U	1000 0	ua/ka
Bromomethane	1000 U	1000 0	μ α /κα
chloroethane	1000 U	1000 U	μg/**9 μα/kd
Trichlorofluoromethane	1000 U	1000 0	ua/ka
1 1-Dichloroethene	1000 U	1000 U	ua/ka
Methylene Chloride	1000 U	1000 U	μα/κα
t-1.2-Dichloroethene	1000 U	1000 U	µq/kq
1 1-Dichloroethane	1000 U	1000 U	μα/κα
	1000 U	1000 U	μς/x9 μα/kα
1 1 1-Trichloroethane	1000 1	1000 U	$\mu q / k q$
Carbon Tetrachloride	1000 U	1000 U	$\mu q / \lambda q$
1 2-Dichloroethane	1000 1	1000 U	$\mu q / \kappa q$
1,2-Dichloropropane	1000 0	1000 U	μg/ky
1,2-Dichloroethene	1000 0	1000 U	μg/kg
Prichloromethane	1000 1	1000 U	μg/kg
Bromoulenterpropene	1000 0	1000 U	μg/kg
c-1, 3-pichloropropene	1000 0	1000 U	µg/kg
t-1, 3-Dichioroethane	1000 0	1000 U	µg∕kg
1,1,2-Trichiorbene	1000 0	1000 U	μg/kg
Tetrachioidecmonte	1000 0	1000 U	μg/kg
Dibromochioromeenan	1000 0	1000 U	µg/kg
Chlorobenzene	1000 0	1000 U	µg/kg
Bromoform	1000 U	1000 0	µg/kg
1,1,2,2-Tetrachiorocom	1000 U		µq/kg
1,3-Dichlorobenzene	1000 U	1000 0	μq/kg
1,4-Dichlorobenzene	1000 U	T000 0	1 37 -
1,2-Dichlorobenzene		6 D = 601	<u>Limits</u>
-	% Recov	% Recov	
sur <u>rogate:</u>	_ _	65	44-149
	97	95	••
Bromofluorobenzene	01/16/94	01/16/94	

* = Analyte values determined from a 1:1000 dilution of the sample U = Analyte not detected to indicated level Date Analyzed

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ENCO LABORATORIES

REPORT # :	5704
DATE REPORTED:	January 18, 1994
REFERENCE :	AMOCO Wildwood

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PAGE 3 OF 8

RESULTS OF ANALYSIS

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EPA METHOD 8020 - Volatile Aromatics	<u>SS-1*</u>	<u>55-2*</u>	<u>units</u>
Methyl Tert Butyl Ether	2000 U	2000 U	µg/kg
Benzene	1000 U	1000 U	μg/kg
Toluene	18000	18000	μg/kg
Fthylbenzene	43000	34000	μg/xg
m-Xylene & p-Xylene	90000	70000	μg/kg
o-Xylene	33000	28000	µg/kg
Chlorobenzene	1000 U	1000 U	μg/kg
1.2-Dichlorobenzene	1000 U	1000 U	µg∕kg
1 3-Dichlorobenzene	1000 U	1000 U	µg/kg
1,4-Dichlorobenzene	1000 U	1000 U	μg/kg
Surrogate:	% Recov	% Recov	<u>Limits</u>
nfluorabanzane	129	96	50-148
Date Analyzed	01/16/94	01/16/94	
EPA METHOD 9073 - Total Petroleum Hydrocarbons	<u>55-1</u>	<u>55-2</u>	<u>units</u>
Total Petroleum Hydrocarbons Date Analyzed	473 01/17/94	245 01/17/94	mg/kg

= Analyte values determined from a 1:1000 dilution of the sample = Analyte not detected to indicated level *

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ENCO LABORATORIES REPORT # : 5704 DATE REPORTED: January 18, 1994 REFERENCE : AMOCO Wildwood

PAGE 4 OF 8

RESULTS OF ANALYSIS

			CG-2	units
TOTAL METALS	Method <u>Number</u>	<u>55-1</u>	<u>55-</u>	mg/kg
ANALISIO	7061	0.40 U 01/18/94	01/18/94	()-
Arsenic, Ab Date Analyzed		20.0 U	20.0 U	mg/xy
Barium, Ba	7080	01/15/94		mg/kg
Date Analyzew	7130	0.80 U	01/15/94	_
Cadmium, Ca Date Analyzed			4.0 U	mg/kg
Chromium, Cr	7190	01/15/94	01/15/94	mg/kg
Date Analyzed	7420	10.8	25.3 01/15/94	-
Lead, Pb Date Analyzed	, 48 -	01/15/94	0.050 U	mg/kg
MOTCUTY, Hg	7471	0,050 0 01/17/94	01/17/94	
Date Analyzed		0.40 U	0.40 U 01/18/94	11197 11 2
Selenium, Se	7741	01/18/94	1 6 U	mg/kg
Date Analyse	7760	1.6 U 01/15/94	01/15/94	
Silver, Ay Date Analyzed		01,201		

U = Analyte not detected to indicated level

ENCO LABORATORIES

REPORT # : 5704 DATE REPORTED: January 18, 1994 REFERENCE : AMOCO Wildwood

PAGE 5 OF 8

RESULTS OF ANALYSIS

		Laboratory Blank	units
EPA METHOD BOLD	<u>se-3*</u>		
VOLATILE MADOLAN		5 U	µg/kg
h h h modifiuoromethane	1000 0	ភ្ប	μg/kg
Dichloroullidozen	1000 U	ភ ប	μď\κď
chloromethane	1000 U	- 5 บ	µg/kg
Vinyl Childre	1000 0	รับ	µg/kg
Bromometnane	1000 0	5 10	μg/kg
Chloroetnane	1000 0	5 Ū	µg/kg
Trichlorolluorombene	1000 0	5 0	μg/kg
1,1-Dichloroechend	1000 U	ទ័ប	µg/kg
Methylene Chiorite	1000 U	ទីប	µg/kg
t-1,2-Dichiologenene	1000 U	5 11	µg/kg
1,1-Dichloroechane	1000 U	5 11	µg/kg
chloroform	1000 U	5 U	µg/kg
1,1,1-Trichlordechand	1000 U	5 13	µg/kg
Carbon Tetrachiorius	1000 U	50	µg/kg
1,2-Dichloroethane	1000 U	50	µg/kg
1,2-Dichloropropane	1000 U	50	μg/kg
Trichloroethene	1000 U	5 0	µg/kg
Bromodichloromethane	1000 U	50	µg/kg
c-1,3-Dichloropropene	1000 U	50	µq/kg
t-1,3-Dichloropropene	1000 U	50	µq/kg
1,1,2-Trichloroethane	1000 U	50	µg/kg
Tetrachloroethene	1000 U	50	μα/kg
Dibromochloromethane	1000 U	50	ug/kg
Chlorobenzene	1000 U	50	
Bromoform	1000 U	5 U	ua/ka
1,1,2,2-Tetrachloroethane	1000 U	50	lia/kg
1.3-Dichlorobenzene	1000 U	5 U	ua/ka
1.4-Dichlorobenzene	1000 U	5 U	F31 3
1.2-Dichlorobenzene	•••		r.imits
x/	% Recov	3 Recov	<u>U 2465</u>
surrogat <u>e:</u>			44-149
	94	104	43 *
Bromofluorobenzene	01/16/94	01/16/94	
Date Analyzed	v=/ /		tion of the sample
	mined from	a 1:1000 dilu	
* = Analyte values deter	to indicat	ed level.	
u = Analyte not detected		•	
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ENCO LABORATORIES ENCO LABORATORIES REPORT # : 5704 DATE REPORTED: January 18, 1994 REFERENCE : AMOCO Wildwood

PAGE 6 OF 8

RESULTS OF ANALYSIS

EPA METHOD 8020 - <u>YOLATILE AROMATICS</u> Methyl Tert Butyl Ether Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Chlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Surrogate: Bromofluorobenzene	<u>85-3*</u> 2000 U 1000 U 5300 6600 12000 6100 1000 U 1000 U 1000 U 1000 U <u>% Recov</u> 97 01/16/94	Laboratory Blank 10 U 5 U 5 U 5 U 10 U 5	units µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg <u>Limits</u> 50-148
Date Analyzed		Laboratory	units

EPA METHOD 9073 -	<u>ss-3</u>	DIAMA	
TOTAL PETROLEUM AIDROOM		5 Ŭ	mg/kg
Total Petroleum Hydrocarbons Date Analyzed	331 01/17/94	01/17/94	

* = Analyte values determined from a 1:1000 dilution of the sample
 U = Analyte not detected to indicated level

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ENCO LABORATORIES REFORT # : 5704 DATE REPORTED: January 18, 1994 REFERENCE : AMOCO Wildwood

PAGE 7 OF 8

RESULTS OF ANALYSIS

TOTAL METALS	Method Number	<u>58-3</u>	<u>units</u>
ANADISIO Arsenic, As	7061	0.40 U 01/18/94	mg/kg
Date Analyzed Barium, Ba	7080	20.0 U 01/15/94	mg/kg
Date Analyzed Cadmium, Cd	7130	0.80 U 01/15/94	mg/kg
Date Analyzed Chromium, Cr	7190	4.0 U 01/15/94	mg/kg
Date Analyzed Lead, Pb	7420	29.2 01/15/94	mg/kg
Date Analyzed Mercury, Hg	7471	0.050 U 01/17/94	mg/kg
Selenium, Se	7741	0.40 U 01/18/94	mg/kg
Silver, Ag Date Analyzed	7760	1.6 U 01/15/94	mg/kg

U = Analyte not detected to indicated level

ENCO LABORATORIES REPORT # : 5704 DATE REPORTED: January 18, 1994 REFERENCE : AMOCO Wildwood

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PAGE 8 OF 8

QUALITY CONTROL DATA

	% Recovery MS/MSD/LCS	<pre>% Recovery Limits</pre>	<u>RPD</u>	RPD <u>Limit</u>
Parameter EPA 8010 Chloride	110/104/ 92 113/ 99/ 96	57-156 53-161	6 13 18	35 26 33
Metnylene onder Chloroform Carbon Tetrachloride Trichloroethene Tetrachloroethene	129/108/105 112/ 98/ 91 109/103/ 93 102/106/ 97	55-157 60-154 56-153 61-135	13 6 4	31 23 28
Chlorobenzene <u>EPA 8020</u> Benzene Toluene Toluene	114/110/108 110/106/104 108/106/106 109/105/105	55-149 51-144 57-138 57-136	4 4 2 4	24 27 25 27
EPA 9073 EPA 9073	NA/ NA/ 96	70-125	NA	16
Total Petroleum Myazza <u>TOTAL METALS</u> Arsenic, 7061 Barium, 7080 Cadmium, 7130 Chromium, 7190 Lead, 7420 Mercury, 7471 Selenium, 7741 Silver, 7760	106/106/ 95 98/100/ 98 92/ 91/ 94 98/ 96/101 90/ 91/ 91 92/ 91/ 90 81/ 75/ 86 86/ 87/ 87	63-139 64-135 66-134 63-148 63-135 40-140 58-126 79-123	<1 2 1 2 1 1 8 <1	19 17 16 23 37 18 20

Environmental Conservation Laboratories Comprehensive QA Plan #880817G NA = Sample used for QA spikes exceeded acceptable baseline values for parameter analyzed

< = Less Than

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0	REMARKS	Please nous Dowick	KINCLIC OF TOS	proposed tumoround		DATE/TIME: 1240 RECEIVED BY: 1-15-94 REMARKS:	10tS 111 "
ATORIES ANDO, FLORIDA 32824 FAX (407) 850-6945	COCCA COCOCCA COCO	AB-12 4 X X X	AB-16 4 XX X			RECEIVED BY: RELINQUISHED BY:	RECEIVED BY: RECEIVED BY: RECEIVED BY:
ENVIRC ENTAL ENVIRC ENTAL CONSERVATION LABOR 10207 GENERAL DRIVE, ORL/ 10207 GENERAL DRIVE, ORL/ 10207 GENERAL DRIVE, ORL/	Laboratories PROJECT NAME DJECT NO. PROJECT NAME MPLER'S (SIGNATURE)	ALLIVE ALANU FOF ESST OMEGAL ATION NO. DATE TIME COMPOSITE GRAB 55-1 1-14-94 1945 SOLT SUL	55-3 1-14-94 1745 501 2-23 11-14-94 1755 501 2-23			RELINQUISHED BY: DATE/TIME:	RELINQUISHED BY: DATERTIME: 1-15-544 12.30 RELINQUISHED BY: DATERTIME:

METHOD FOR DETERMINING SOIL VOLUME - AREA 1

To determine the volume (weight) of soil removed from Area 1, a dump truck was obtained and weighed empty at a certified scale. The empty (tare) weight was recorded 27,620 pounds. Next, six (6) front-end loader bucket fulls of contaminated soil were loaded into the dump truck and the truck was re-weighed at the same certified scale. The gross weight was recorded at 57,700 pounds, yielding a net weight of 30,160 pounds for 6 loader fulls of soil. Scale receipts are provided in this appendix. When divided, this yields 5,026.67 pounds per loader-full. A total of 111 loader-fulls of soil were thermally processed which yields 278.98 tons. This method of estimating tonnage correlates well with the mapped excavation area and assuming 1.4 tons/yd³.

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DHK-41

APPENDIX D

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IRA Details and Certificate of Materials Recycling Area 1

IMAGE QUALITY

AS YOU REVIEW THE NEXT GROUP OF IMAGES, PLEASE NOTE THAT THE ORIGINAL DOCUMENTS WERE OF POOR QUALITY.

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AT Scale Company guarantees that our scales will give an accurate weight. What makes us different ther scale companies is that we back up our scales will give an accurate weight. What makes us different ""WEIGH WHAT WE SAY OR WE PAY" ""WEIGH WHAT WE SAY OR WE PAY" get an overweight time from the state <u>after</u> one of our CAT Scales showed a legal weight, we will allably check our scale and we will: ""Weigh what we Say OR WE PAY" allably check our scale and we will: "Interest you for the cost of the overweight line if our Scales showed a legal weight, we will embrane you for the cost of the overweight line if our scale is wrong, OR embrane you for the cost of the overweight line if our scale is wrong. OR embrane you for the cost of the overweight line if our scale is wrong. OR embrane you for the cost of the overweight line if our scale is wrong. OR embrane you for the cost of the overweight line if our scale is wrong. OR embrane you for the cost of the overweight line if our scale is wrong. OR emprave our scale was correct. "write"? U \$\$POULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED: "trutter"? U \$\$POULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED: "trutter"? U \$\$POULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED: "trutter"? U \$\$POULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED: "trutter"? U \$\$POULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED: "trutter"? U \$\$POULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED: "trutter"? U \$\$POULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED: "trutter"? U \$\$POULD GET AN OVERWEIGHT FINE, YOU SHOULD OUT AN OVER WEIGHT them of the fine, or call CAT Scale company direct during normal business hours.	The low weighed on a full length platform scale 1 1 2 6 0 1 D 01 / 21 / 9 4 STEER AXLE 1 1 2 6 0 1 D 01 / 21 / 9 4 STEER AXLE 1 1 2 6 0 1 D 01 / 21 / 9 4 STEER AXLE 1 6 3 8 0 1 D 01 / 21 / 9 4 STEER AXLE 1 6 3 8 0 1 D 01 / 21 / 9 4 STEER AXLE 1 6 3 8 0 1 D DRIVE AXLE DRIVE AXLE - 20 1 D NULLDUODD FL. GROSS WEIGHT - 20 1 D This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weightmaster, and when property signed and sealed shall be prima facia evidence of the public or deputy weight shown as prescribed by law.	ENTRANTS NAME: ADDRESS: PHONE: LIVESTOCK, PRODUCE, PROPUCE, AND DITY, OR, ATTICLE WEIGHED LIVESTOCK, PRODUCE, AND DEATLY, GOMMONTY, OR ATTICLE WEIGHED LIVESTOCK, PRODUCE, AND DEATLY, GOMMONTY, OR ATTICLE WEIGHED TRAULER AND DEATLY, GOMMONTY, OR ATTICLE WEIGHED TRAUCTORY, PRODUCE, AND DEATLY, GOMMONTY, OR ATTICLE WEIGHED TRAUCTORY, PROCE, PRODUCE, AND DEATLY, GOMMONTY, OR ATTICLE WEIGHED TRAUCTORY, PROFILE, MENNEL, AND DEATLY, GOMMONTY, OR ATTICLE WEIGHED TRAUCTORY, PROFILE, WEIGHED, OR ATTICLE WEIGHED TRAUCTORY, PROFILE, PROFILE, MENNEL, AND DEATLY, GOMMONTY, OR ATTICLE WEIGHED TRAUCTORY, PROFILE, AND DEATLY, GOMMONTY, ON ATTICLE WEIGHED, TRAUCTORY, ON ATTICLE WEIGHED, ON ATTICLE WEIGHED TRAUCTORY, PROFILE, AND DEATLY, GOMMONTY, ON ATTICLE WEIGHED, TRAUCTORY, PROFILE, AND DEATLY, GOMMONTY, ON ATTICLE WEIGHED, AND DEATLY, GOMMONTY, ON ATTICLE WEIGHED, ON ATTICLE	WEIGHHMASTER OR WEIGHER SIGNATURE
CERTIFIED (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	SCALE CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (319) 284-6263 DATE (See reverye et or the (See reverye et or the contest rules apd. SCAL) LOCATION PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE	IMPRINT SEAL HERE (IF APPLICABLE)	5810189 CONTEST TICKET NUMBER

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are comparing the parameter with a plant with market us different weight thread that its and stands with cash. A stand stand stands with cash. are comparing the parameter with cash.	WEIGHMASTER OR WEIGHER SIGNATURE (IF REWEIGH) • CAT SCALE COMPANY 1993 DRIVER IN TRUCK UNLESS CHECKED HERE:
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FRI 1/21/94

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9	10:26 AM	35	2:20 pm	
10	10:43 Am	36	2:33 Pm	
11	10:54 Am	37	2.45 PM	
17	11:00 Am	30	2:33 pm	
12	11:10 Am	39	3:02 Pm	
14	11:19 Am	40	3.14 pm	
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	11:39 Am	42	3:33 Pm	
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- d	-12:27. Pm	47	4:19 pm	nam an an an a san ann ann an Ann
<i>21</i>	12:20 Pm	48	4:29 Pm	
22	12.29 on	49	4:38 pm_	
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_24	12. TS PM	51	4:56 PM	
25	12:33 Fm.	52	5:07 Pm	
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Amoco # 1889 103-1471 704-0021

1/22/94 Bucket + Time

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THERMAL SOIL REMEDIATION TREATMENT CERTIFICATION

POOR ORIGINAL

WHEREAS, MOBILE RECLAIM INC. IS A CORPORATION ORGANIZED. UNDER THE LAWS OF THE STATE OF FLORIDA WITH ITS PRINCIPAL PLACE OF BUSINESS IN GAINESVILLE, FLOHIDA, AND

WHEREAS, MOBILE RECLAIM, INC. OPERATES A MOBILE SOIL REMEDIATION UNIT WHICH RECYCLES PETROLEUM CONTAMINATED SOILS UNDER THE AUTHORITY OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION UNDER PERMIT #40-01-202044

NOW. THEHEFORE, MOBILE RECLAIM, INC. DOES HEREBY ISSUE THIS GERTIFICATE TO:

ESSI OMEGA, 2999 ALL AMERICAN BLVD., ORLANDO, FL FOR TREATMENT OF SOILS AT: AMOCO #98, 306 SOUTH MAIN STREET, WILDWOOD, FL. TO EVIDENCE THE TREATMENT OF 278.8 TONS OF SOILS

SAID RECYCLING HAS BEEN COMPLETED IN A MANNER CONSISTANT WITH ACCEPTABLE ENGINEERING STANDARDS AND IN COMPLIANCE WITH ACCEPTABLE RULES AND REGULATIONS SET FORTH BY LOCAL. STATE, AND FEDEHAL REGULATORY

MOBILE RECLAIM, INC . FREY C. BORNEM

SWORN TO AND SUBSCRIBED BEFORE ME THIS 4 DAY OF APR. 1994. Alagel I. Cius

SAZEL F. CHE COTTON ENTES

TOTAL P.02



Laboratories OHRS Cartification No. 83318, E83182

Environmental Conservation Laboratories 10207 General Drive Criando, Flonda 32824 107 / 826-5314 Fax 407 / 850-6945

CLIENT : Env. Solutions & Services ADDRESS: 2999 All American Blvd. Orlando, FL 32810

: 5788 DATE SUBMITTED: January 22, 1994 DATE REPORTED : February 3, 1994

PAGE 1 OF 4

ATTENTION: Dave Kincaid

SAMPLE IDENTIFICATION

Soil samples submitted and identified by client as:

Wildwood Amoco Discharge 01/21/94 (Composite of 8 Samples)

LABORATORY MANAGER Vesey David J.

ENCO LABORATORIES REPORT # : 5788 DATE REPORTED: February 3, 1994 REFERENCE : Wildwood Amoco

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PAGE 2 OF 4

RESULTS OF ANALYSIS

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EPA METHOD 8020 -	01/21/94 Composita=	Laboratory <u>Blank</u>	units
VOLATILE AROMATICS		10.17	uq/kg
	10 ប	TO O	ug/kg
Methyl Tert Butyl Etner	22	5 U 5 U	uq/kg
Benzene	10		uq/kg
Toluene	11		ug/kg
Ethylbenzene	49		ug/kg
m-Xylene & p-Xylene	6		ug/kg
o-Xylene	5 ប	50	ug/kg
Chlorobenzene	ទ ប	50	ug/kg
1.2-Dichlorobenzene	ទ ប	5 U 5 U	ua/ka
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1 4-Dichlorobenzene			r.imits
1,4 01000	1 ROCOV	3 Recov	<u></u>
surrogat <u>e:</u>		- 4 9	50-148
	67	100	
Bromofluorobenzene	01/22/94	01/22/94	
Date Analyzed	<i></i> ,		

* = Analyte values confirmed by duplicate analysis
 U = Analyte not detected to indicated level

ENCO LABORATORIES REPORT # : 5788 DATE REPORTED: February 3, 1994 REFERENCE : Wildwood Amoco

PAGE 3 OF 4

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RESULTS OF ANALYSIS

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epa method 9073 Total Petroleum	- HYDROCARBONS	01/24/94 Composite	Laboratory <u>Blank</u>	units
Total Petroleum Date Analyzed	Hydrocarbons	9.9 01/22/94	5 U 01/22/94	шд/кд
TOTAL METALS ANALYSIS	Method <u>Number</u>	01/24/94 <u>Composite</u>		units
Arsenic, As	7061	0.40 U 01/24/94		ng/kg
Barium, Ba	7080	20.0 U 01/23/94		mg/kg
Cadmium, Cd	7130	0.80 U 01/23/94		mg/kg
Chromium, Cr	7190	4.6 01/23/94		ng/kg
Lead, Pb	7420	26.2 01/23/94		mg/kg
Mercury, Hg	7471	0.050 U 01/26/94		mg/kg
Selenium, Se	7741	0.40 U 01/24/94		md/kd
Silver, Ag Date Analyzed	7760	1.6 U 01/23/94		mg/kg

U = Analyte not detected to indicated level

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ENCO LABORATORIES REFORT # : 5788 DATE REPORTED: February 3, 1994 REFERENCE : Wildwood Amoco

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PAGE 4 OF 4

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QUALITY CONTROL DATA

	* Recovery	1 Recovery Limits	RPD	RPD <u>Limit</u>
Parameter <u>SPA 8020</u> Benzene Toluene Fthylbenzene	93/100/110 93/ 95/105 94/ 93/ 97 90/ 93/102	55-149 51-144 57-138 57-136	7 2 1 3	24 27 25 27
Total Xylenes	83/ 89/ 93	70-125	7	1.6
Total Petroleum Hydrocarson Total Petroleum Hydrocarson Arsenic, 7061 Barium, 7080 Cadmium, 7130 Chromium, 7190 Lead, 7420 Mercury, 7471 Selenium, 7741 Silver, 7760	90/ 87/ 90 104/106/ 92 90/ 92/ 94 95/ 94/ 95 103/102/100 95/ 97/ 98 103/100/101 84/ 84/ 82	63-139 64-135 66-134 63-148 63-135 40-140 58-126 79-123	4 2 1 1 2 3 <1	19 17 16 23 37 18 20

Environmental Conservation Laboratories Comprehensive QA Plan #880817G

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Laboratories

CLIENT : Env. Solutions & Services ADDRESS: 2999 All American Blvd. Orlando, FL 32810

REFORT # : 5799 DATE SUBMITTED: January 25, 1994 DATE REPORTED : February 2, 1994

PAGE 1 OF 4

ATTENTION: Joe McFadden

SAMPLE IDENTIFICATION

Soil samples submitted and identified by MRI as:

Wildwood AMOCO Discharge 01/21/94 to 01/22/94 (Composite of 8 Samples)

LABORATORY MANAGER

David esev .Т.

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ENCO LABORATORIES REPORT # : 5799 DATE: REPORTED: February 2, 1994 REFERENCE : Wildwood AMOCO

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PAGE 2 OF 4

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RESULTS OF ANALYSIS

TTA WETHOD 8020 -	01/21/94 to 01/22/94 Compositat	Laboratory <u>Blank</u>	<u>units</u>
TOLATILE ARONATICS		10 1	µq/kg
	10 បី	T0 0	ug/kg
Methyl Tert Butyl Ether	8	5 U	μg/kg
Benzene	9	ទ ប	μg/kg
Toluene	8	10 U	µg/kg
Ethylbenzene	12	รับ	μg/xg
m-Xylene & p-Xylene	6	ភ ប	μg/kg
o-Xylene	5 ប	5 11	µg/kg
chlorobenzene	5 Ū	5 11	µg/kg
1.2-Dichlorobenzene	5 Ŭ	5 11	µg/kg
1 3-Dichlorobenzene	5 Ŭ	5 5	
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T14. DTeer-	5 Recov	3 Recov	•
dummodata:	3 33		57-147
SUFFOGUE	67	90	
Bromofluorobenzene Date Analyzed	01/31/94	01/31/94	

* = Analyte values confirmed by multiple sample analyses
 U = Analyte not detected to indicated level

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ENCO LABORATORIES REPORT # : 5799 DATE REFORTED: February 2, 1994 REFERENCE : Wildwood AMOCO

PAGE 3 OF 4

RESULTS OF ANALYSIS

EPA METHOD 9073 TOTAL PETROLEUM Total Petroleum	HYDROCARBONS Rydrocarbons	01/21/94 to 01/22/94 <u>Composite</u> 9.7 01/25/94	Laboratory Blank 5 U 01/25/94	units mg/kg
	Method	01/21/94 to 01/22/94 Composita		units
TOTAL METRIS ANALYSIS	Number	0.603		ng/kg
Arsenic, As Date Analyzed	7061	01/31/94 20.0 U		mg/kg
Barium, Ba	7080	01/30/94		mg/kg
Cadmium, Cd	7130	0.80 U 01/25/94		mg/kg
Date Analyzed	7190	4.0 U 01/27/94		
Date Analyzed	7430	26.5		mg/kg
Lead, Pb Date Analyzed	/444	01/25/54 0.050 U		mg/kg
Mercury, Hg	7471	01/26/94	1	mg/kg
selenium, Se	7741	0.40 U 01/31/94		mg/kg
Date Analyzed Silver, Ag Date Analyzed	7760 '	1.6 U 01/27/94		

U = Analyte not detected to indicated level

ENCO LABORATORIES REPORT # : 3799 DATE REPORTED: February 2, 1994 REFERENCE : Wildwood AMOCO

PAGE 4 OF 4

QUALITY CONTROL DATA

	A Becovery	% Recovery Limits	<u>rpo</u>	RPD <u>Limit</u>
FATAMECAL EPA 8020 Benzene Toluene Ethylbenzene Ethylbenzene	90/ 98/ 90 86/ 92/ 94 82/ 88/ 91 80/ 86/129	61-139 61-135 59-135 60-131	8 6 7 7	29 28 29 27
EPA 9073 Total Petroleum Hydrocarbons	95/99/92	70-125	4	16
TOTAL METALS Arsenic, 7061 Barium, 7080 Cadmium, 7130 Chromium, 7190 Lead, 7420 Mercury, 7471 Selenium, 7741 Silver, 7760	101/108/ 96 97/ 95/ 94 92/ 95/ 96 97/ 97/ 94 96/ 94/ 92 95/ 97/ 98 89/ 91/ 94 101/ 98/ 98	63 - 139 64 - 135 66 - 134 63 - 148 63 - 135 40 - 140 58 - 126 79 - 123	7 2 3 2 2 2 2 3	19 17 16 23 37 18 20

Environmental Conservation Laboratories Comprehensive QA Plan #880817G

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APPENDIX E

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Diesel Fuel Disposal Receipt

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IIVIAGE API

NO TEXT WAS INCLUDED WITH THIS APPENDIX

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APPENDIX F

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Tank Removal Forms

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Florida Department of Environmental Regulation Florida Department of Environmental Regulation Twin Towers Office Bldg. • 2600 Blair Scone Road • Tallahassee, Florida 32399-2410 Underground Storage Tank Installation and Removal Form GOPN GOPN For Certified Contractors Florida Storage Tank Installation and Removal Form	2
Pollutant Storage System Specialty Contractors as defined in Section 40.110, Honseplacement or removal of the storage tank system (s) locate Florida Administrative Code) shall use this form to certify that the installation, replacement or removal of the storage tank system (s) locate at the address listed below was performed in accordance with Department Reference Standards.	34
General Facility Information t. DER Facility Identification No.: 60 8516885 Telephone: (904) 748-2551 Telephone: (904)	
2. Facility Name: <u>Amoco #89</u> 3. Street Address (physical location): <u>305 S. Main Street</u> Wildwood, FL	
4. Owner Name: <u>Ronald Gasque</u> 5. Owner Address: <u>320 Shopping Center Drive</u> , Wildwood, FL 34785-4533 5. Owner Address: <u>320 Shopping Center Drive</u> , Bemoved at this time <u>4</u>	
 6. Number of Tanks: a. Installed at this with	
Underground Pollutant Tank Installation Checklist Please certify the completion of the following iristallation requirements by placing an (X) in the appropriate box.	
 The tanks and piping are corrosion resistant and approved for use by state and version and version Association) 30(87). API Excavation, backfill and compaction completed in accordance with NFPA (National Fire Protection Association) 30(87). API Excavation, backfill and compaction completed in accordance with NFPA (National Fire Protection Association) 30(87). API Excavation, backfill and compaction completed in accordance with NFPA (National Fire Protection Association) 30(87). API Excavation, backfill and compaction completed in accordance with NFPA (National Fire Protection Association) 30(87). API Excavation, backfill and compaction completed in accordance with NFPA (National Fire Protection Association) 30(87). API Excavation, backfill and compaction completed in accordance with NFPA (National Fire Protection Association) 30(87). API Excavation, backfill and compaction completed in accordance with NFPA (National Fire Protection Association) 30(87). API Excavation, backfill and compaction completed in accordance with NFPA (National Fire Protection Association) 30(87). API Excavation, backfill and compaction completed in accordance with NFPA (National Fire Protection Association) 30(87) 	
 Tanks and piping pretested and installed in accordance with NFPA 30(87), API 1613, PLINE 100(21) = specifications. Tanks and piping are cathodically protected in accordance with NFPA 30(87), API 1632, UL (Underwriters Laboratory) 	
 Steel tanks and piping at the second s	

- 6. Monitoring well(s) or other leak detection devices installed and tested in accordance with Section 17-761.640, Florida Administrative Code (F.A.C.)
- 7. Spill and overfill protection devices installed in accordance with Section 17-761.500, F.A.C.
- 8. Secondary containment installed for tanks and piping as applicable in accordance with Section 17-761.500, F.A.C.

Please Note: The numbers following the abbreviations (e.g. API 1615) are publication or specification numbers issued by these instututions.

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 $\begin{bmatrix} \mathbf{x} \end{bmatrix}$

Underground Pollutant Tank Removal Checklist

1. Closure assessment performed in accordance with Section 17-761,800, F.A.C.

- 2. Underground tank removed and disposed of as specified in API 1604 in acordance with Section 17-761.800, FA.C.

		Page 1	ol ?	Sour District	SUMMER DIVER
Northers Disnet 160 Governmental Camer Pensacora Fibrida 32501 (194	Northeast Quarket 7625 Baymandows Way Sune B 200 Jacuatowers Flords J2207	Central District 1319 Maguna Bird Sum 732 Orlando Florida 12803 1162	Southing to Delice 4570 One Fair Bird Campa Francia Josto / 247	2789 647 54 For Wars Florida 33901 2596	Yeek Plan Reach France 11404
		-			,

DER From a 17-781900(5) Undergrowing Stange Fans Installation 4 Form fast Remove Form for Charles Constantion
O-remper 10 '990
Eriestive Date
DER Angecason No

Certification

I hereby certify and attest that I am familiar with the facility that is registered with the Florida Department of Environmental Regulation; that to the best of my knowledge and belief, the tank installation, replacement or removal at this facility was conducted in accordance with Chapter 489 and Section 376303, Florida Statutes and Chapter 17-761, Florida Administrative Code (and its adopted reference sources from publications and standards of the National Fire Protection Association (NFPA), the American Petroleum Institute (API), the National Association of Corrosion Engineers (NACE), of the National Fire Protection Association (NFPA), the American Petroleum Institute (PEI); Steel Tank Institute (STI); Underwriters Laboratory (UL); and American Society for Testing and Materials (ASTM); Petroleum Equipment Institute (PEI); Steel Tank Institute (STI); Underwriters Laboratory (UL); and the tank and integral piping manufacturers' specifications; and that the operations on the checklist were performed accordingly.

Andrew Bell

(Type or Print) Cartified Pollutant Tank Contractor Name Pollutant Storage System Specialty Contractor License Number (PSSSC)

1. Area Contractor Signature Cartified Tank

Andrew Bell

(Type or Print) Field Supervisor Name

ield Supervisor Signature

PC C048399 PSSSC Number

9 Date

Date

The owner or operator of the facility must register the tanks with the Department at least 10 days before the installation. The installer must submit this form no more than 30 days after the completion of installation to the Department of Environmental Regulation at the address printed at the top of page one.

Page 2 di 2
DEFARTMENT OF THE TROMANNAL PROPERTION RELATION STORAGE TANK SYSTEM CHEFEORT N FERRET FORM COMES FAGE . FAGE: 1 DF 1 PRINTED: 01.07.5 10UNTY: SUMTER PACILITY ID 4: 508515883 PACILITY NAME: AMOCO 485 PACILITY LOCATION: 305 5 MAIN ST. WILDWOOD PACILITY CONTROL: GASCUE, SCHALD PHCNE: (904- 748-2851 PHCNE: (304) 748-2551 OWNER ADDRESS: 320 SHOFFING CENTER DE. WILDWCOD, FL. 34785-4533 CWNER CHANGE DATE: 00/00/00 FAC TYPE: RETAIL STATION LAST AST COMPLIANCE DATE:00/00/0 OWNER CONTACT: RONALD GASQUE LONGITUES: 92-03-24 LATITUDE: 28-51-20 LAST UST COMPLIANCE DATE: 07/15/92 EDI MCNITORING TAN CONTAMINATION DATA AVAILABLE: INTEGRAL STA SYSTEM TANK UNDER OR PIPING INSTALL TYPE ឋ В 300E В 11 DATE CONTENT С В SIZE U TANK # ₿ 13 01/84 4000 B Ç В U B 01/84 U C 1 В В 4000 ប Б 01/84 Э 2 . С 3 В 4000 U з 8 **01/84** 3 В D \mathbf{D} 2000 U Ξ. SX/XX 4 D Y 1000 U XX/XX 5 Y 1000 6 All Tours Sound Condition Stow Strikt ESSI Onega Canon unter Consultant Andrew Bell, EAC ACCOUSSAG POSTERNIS Pull Allor 110 yards contournated Soil Stock Ald anisto for transment 40 to 5150 PIM OVA. Montening well" deitered during full Fill ports were most contained it All touts Tonic pull part of IRA, ESSI to Econord Closure documents

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APPENDIX G

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Tank Scrapping Receipt

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INSTALLATION TANK REMOVAL

STATE CERTIFIED # PC C048399

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ANDREW BELL, INC.

Petroleum Equipment Services

FAX TRANSMITTAL

DATE: 5/2/94 FAX TO: Dane Kincaid

FROM: Andrew

PAGES: <u>2</u> including Cener <u>comments: Amaco # 89, 305 S. Main It. Wildwood</u> <u>W. D. Ow, tank removal</u>.

P.O. Box 809 · Ocore, Florida 34761 · (407) 877-8892 · Fax: (407) 656-2507

DECONTAMINATION CERTIFICATE

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1. Seller hereby sells or otherwise conveys to Comm in return for valuable consideration, the reo	ercial Metals Company the following material belot and sufficiency of which is hereby
acknowledged:	
3- 4,000 gal USI	
1-2,000 "	
2. Noiwithstanding any other warranty or limitation and represents to Commercial Metals Company contain any "hazardous substance" (which siz Sec. 101(14) of the Comprehensive Environme 42, U.S.C., Sec. 9601(14), and those substan reactive, as those terms are defined at 40 C substances" which are integral constituents of are contained in the electrolytic fluid in a speni and hold Commercial Metale Company ham liabilities, including reasonable altorney's fees, foregoing warranty. "Selfar" shall be defined it other entity that selfs, transfers, gives, or oth Company.	of warranty herein of officients, consider do not y that the materials delivered hereunder do not all be defined as those substances included in intel Response, Compensation and Liability Act, inces that are toxic, Ignitable, corrosive, and/or FR 201, Subpart C), except those "hazardous the metallic fraction of the scrap metal or which it lead-add ballery. Seller will indemnify, defend, miess from any and all claims, demands and is resulting in whole of in part from a breach of the herein as any person, corporation, partnership or terwise conveys materials to Commercial Metals
	COMMERCIAL METALS COMPANY
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APPENDIX H

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Contaminated Soil Disposal Manifests and Certificate of Materials Recycling Area 2

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AS YOU REVIEW THE NEXT GROUP OF IMAGES, PLEASE NOTE THAT THE ORIGINAL DOCUMENTS WERE OF POOR QUALITY.

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Soli Analysis Report

8729 Edgewater Commerce Perkway · Orlando, Florida · 32810-4278 · Phone 407 298-0848 · Fax: 407 299-7053

Sample Received From:

Soil Treatment Services, Inc. 3505 Pugmill Road Kissimmee, FL 34741

3/17/84 COMPOBITE 1

March 25, 1994

Sample Name: Date Received: D

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te Reported;	March 31, 190		Method	Accuracy	Precision	Result
Parameter	Analysis	Reporting Units	Limit	% recovery	<u> </u>	0.77
	0573	marka	1.0	95.4	8.32	0.70
tal Petroleum Hydrocarbons	7041	marka	0.4	90.5	2.85	4.23
senic	7080	ma/kg	0.025	103	1.02	<0,05
ariumi	7434	marka	0.05	102	5.33	1,12
admium	7101	marka	0.1	93.2	0.00	1.12
hromlum	7105	ma/kg	0.05	98,1	0.00	<0.001
eed	7421	mailka	0.001	78.5	8,82	5.61
tercury	74/1	haka	0,5	104	5,48	<0.05
elenium	7740	malka	0.05	107	4.13	<1.4
Silver	7760		1.4	68.9	3.8	100
Mathyi-teritrayi-ether	8020		0.9	93,3	4.1	
Banzena	8020	- United	0.7	105	0.1	
Toluene	8020		1.7	101	5.5	
Obtembentene	8020	UQVKQ		88.2	2.8	<0,8
Child bergene	8020	Lighter .		104	4.8	<1,8
ELNYI Dentario	8020	Ug/kg		85.5	6.9	<0.8
map-Ayinia	8020	U0/K		100	10.1	<1.8
0-Xylene	8020		1.0	P1.3	11.3	<1.8
m-Dichloropenzene	802	o up/k	9 1.5	08.2	6.B	<1.0
p-Diohloropenzono	802		9 1.8		n/a	<1.7
o-Diohiorolienzene	802		10 n/a		n/a	1
Total BTEX			nia	n/a		
6020 Dilution Fector			-			

The sample integrity and reliability was verified by Laboratory personnel prior to analysis. Analysis method used are in accordance with F.A.C. 17-775 and applicable EPA protocols. Laboratory Quality Assurance is in accordance with Bottorf Associates Comprehensive Quality Assurance Plan No. 910102G.

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Kent D. Bottori Laboratory Director

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Page 1 of 1

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24-164 WO Con annor # 98 Soil Analysis Report

8729 Edgeweler Commorce Parkway · Orlando, Florida · 32010-4278 · Phone 407 298-0846 · Fox: 407 299-7053 Lab Control Number: 6666

Bample Received From:

Soll Treatment Services, Inc. 3505 Pugmili Road Kissimmee, FL 34741

March 10, 1994 Composite 2

Sample Nime: Date Reported: Date Reported:

March 11, 1994 March 17, 1994 Method Result Practalon Accuracy Detection Reporting % r.s.d Anaiyala % necovery Parameter Limit Unite 11.0 Method 1.46 104 1.0 ma/ka Total Petroleum Hydrocarbons 9073 0.72 5.16 98.7 0.4 ma/ka 7061 8.73 2.07 96.B Arsenio 0.025 maka 7080 <0,05 12.8 Barium 105 0.05 ma/kg 7131 1.16 1.70 Cadmium 100 1.0 ma/kg 7191 0.93 Chromium 10.4 97.A 0.05 marka 7421 <0.001 17.8 Laad 107 0.001 ma/ka 7471 <0.5 4.19 Marcury 105 0.5 ma/ka 7740 <0.05 8.91 Setenium 101 0.05 ma/ka 7760 <1.4 3.8 Silver 66.9 1.4 00/100 8020 9.1 Mating-tent-butyl-ether 4.9 88.6 0.9 ug/ig 8020 2,2 2.9 Benzene \$1.1 0.7 ug/kg 8020 <1.7 6.1 Toluene 99.2 1.7 up/ko 6020 <0.8 Chlorobergene 8.1 70.9 8,0 ug/ka 8020 <1.8 \$.4 Ethyl benzene 86,5 1.6 uo/ka 6020 <0.8 7.2 m & p-Xylene 81.1 Q.8 vo/kg 8020 <1.6 6,9 o-Xylene 72.2 1.6 ug/kg 6020 <1,6 m-Dichlorobenzene 9.1 78.3 1.8 uu/ka 6020 <1.6 42 p-Dichlorolanzerre 81.1 1.8 ua/ka 8020 -11.3 o-Dichiorolienzene n/ā n/a n/a jug/kg 8020 1 Total BTEX n/a MA n/a X 8020 8020 Düution Factor

Data Release Authorization

The sample integrity and reliability was verified by Laboratory personnel prior to analysis. Analysis method used are in accordance with F.A.C. 17-776 and applicable EPA protocols. Laboratory Quality Assurance is in accordance with Bottorf Associates Comprehensive Quality Assurance Plan No. 910102G.

Kent D. Botton Laboratory Director

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signature

1<u>17/94</u> Date

Page 1 of 4



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8729 Edgewater Commerce Perkwey Orlendo, Fiolide - 32810-4278 - Phone 407 298-0846 Fex: 407 299-7059

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Sample Received From:

Soli Treatment Services, Inc. 3505 Pugmili Road Kissimmee, FL 34741 2 March 10, 1994 Composite 2 March 11, 1994 March 17, 1994 4

MC.

Bampie Name: Date Received: Date Reported:

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ite Reported:	Analysia	Reporting	Method Detection	Accuracy % recovery	Procision % r.s.d.	Result
Parameter	Method	Units	410	91.8	3,4	<1.2
lab location up athana	8010	- uging		101	3.6	<1.7
tochigitouthisme	8010	ug/igg	1./	107	6.2	<2.5
romomerie	8010	Lig/kg	2.5	70.0	10,1	<1.3
hioroenau	8010	lighta	1.3	/0.0	3.8	<1.3
1.1-Dichiorosumme	8010	ug/kg	1.3	86.0	122	<1.1
Viethylene Chlonde	8010	yarka	1.1	91.1	14.0	<1.3
rans 1,2-Dichlarosthylene	8010	Lianka	1.3	84.5		<1.0
1,1-Dichlotesthane	9010	Lia/kg	1.0	101		61.3
Chloroform		juarka	1.3	25.6	3.9	
1,1,1-Triomprethane	8010	in ko	1.1	83.3	8.2	
Carbon Tetrachionicie	8010		1.8	100	3.0	
Trichloraethylene	8010		1.5	104	92	<1.0
1.2-Dichiotopopano	8010			106	8.3	<9.0
Bornorlichioromethane	8010	- uonka		101	2.2	<12
	8010	yg/kg		105	9.3	<1.4
	8010	ing		105	4.2	<1.3
Units 1, Southernettung	8010	Ug/kg	12		9.4	<1.3
1-Chipro aspectitiona	8010	barka	1.3		8.8	<1.1
1,1,2-Trionaproducerte	8010	ug/kg	1.1	10.3	20	<1.1
Tertrachiongeunnana	8010	ug/kg	1.1	101	42	<1.4
Dibromoonbromeinane	8010	usa/ing	1.4			<3.8
1,2-Dibromemethane		Uana	3.8	100	3.0	<1.8
Chlorobenzene		juana	1.3	101	6.2	
1,1,1,2-Tetraonioroethan	8 801	· · · · · · · · · · · · · · · · · · ·		_		

Page 2 of 4

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Soil Analysis Report

0729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Fhone 407 298-0846 · Pax: 407 299-7053 Lab Control Number: 6665

Sample Received From;

Soli Treatment Services, Inc. 3505 Pugmill Road Kissimmee, FL 34741

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Semple Name: Date Received: Date Repórted;	March 10, 19 March 11, 19 March 17, 19	94 Composite 94 94	B 2			1
Flarameter	Analysis	Reporting	Method Detection	Accuracy % recovery	Precision % r.e.d.	Result
i	Method	Unite	12	104	9.3	<1.2
Bromotom	8010	UDVILD	1.0	101	2.9	<1.0
1.1.2.2-Tetrachlorethane	8010			100	6.1	<5.7
1.2.3-Trichipropropano	6010	have -	3./	911	3.8	<1.1
Bmmobenzene	8010	Lig/kg	1.1	408	8.2	<1.4
A-Chiomtoluene	6010	uorko	1.4	405	3.6	<2.6
- Dishiophenzene	8010	ug/kg.	2.8	105	8.2	<2.5
n-Dishlamianzana	8010	ug/kg	2.5	¥0.0	19	<2.8
D-Diutelionation	8010	ug/kg	2.8	81.0		<9.0
6-Dignidiogeneerie	8010	ug/kg	<u>n/a</u>	<u>n/a</u>		
Total VON	8010	X	n/a	n/a		
8010 Dilution Factor	8100	harka	5.0	101	6.2	
Acenaphitiene	8400	un/ka	5.0	95.5	8,2	
Acenapthylene	8100	unika	5.0	93.0	<u> </u>	< 5.0
Anthrecond	8100		5.0	89.9	13,1	<5.0
Benzo(s)enthracene	8100		5.0	5.88	6.7	<6.0
Benzo(e)pyrene	8100			85.5	3.8	<5.0
Benzo(b)flupranthene	8100			81.9	2.4	<6,0
Benzo(ghi)perylene	8100	UQ/Kg		83.3	3,1	<5.0
Benzolioficoranithene	8100			01.7	0.2	<5.0
Chrysene	: 8100	ug kg		62.2	1,5	<5.0
Dibenzo(a,h)enthracene	8100	μάλκα		401	7.1	<5.0
Elucrothene	8100	light			85	<5,0
Plugrene	8100	lig/kg	5,0	103		and the second

Page 3 of 4

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CTTTELL	inc.	· · ·		Soll An	alysis R	aport
Commerce P	arkway · Orlando, :	Fioride 3261	0-4278 · Pho	he 407 298-0840	ntrol Number	: 6888
ample Received From:	Soli Traamen 3505 Pugmili Kissimmee, F	t Services, ind Road L 34741	3.			
ample Name: Jate Received: Jate Reported:	March 10, 19 March 11, 19 March 17, 19	94 Composit 94 94	Method	Accuracy	Precision	Resul
Darameter	Analysis	Reporting Units	Limit	% recovery	3.9	<5.0
	e100	uarka	5.0	100	3.1	<5.0
	0144	1 June Care	- 5.0	100		-60
Indeno(1,2,3-od)pyrene	. 8100	juunu		401	4.2	
Indeno(1,2,3-od)pyrene Naptrihalene	8100	UDAG	5.0	101	<u>4.2</u> <u>8.3</u>	<5.
Indenc(1,2,3-od)pyrene Naphihalene Phenanthrine	8100 6100 8100	ug/kg ug/kg	5.0	101 99.2	4.2 0.3 n/a	< <u><.</u>
Indenc(1,2,3-od)pyrene Naphthalene Phonanthrane Pyrene	8100 8100 8100 8100	ug/kg ug/kg ug/kg	5.0 5.0 T/A	101 99.2 r/a	4.2 8.3 n/a n/a	< <u><</u>

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Page 4 of 4

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APPENDIX I

Clean Backfill Manifests Area 2

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P.O. BOX 130	P.O. BOX 130
WILDWOOD FL 34785	WILDWOOD FL 34785
PH. 748-7677 Mobile 793-0762	PH. 748-7677 Mobile 793-0762
Date 3/2-94	Date 3/2/94
Name Owica	Name Omega
Customer and rai	Customer GMCCCC 1
4 Fill A (in all	Address INITA IN Tarl
Address <u>(Nuca (Ne Volg</u>	
Job #	Job #
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Truck # Rec'd By	Truck # 79 Rec'd By
W.D. ORR LAND CLEARING P.O. BOX 130 WILDWOOD FL 34785 PH. 748-7677 · Mobile 793-0762 Date <u>3/2/94</u>	W.D. ORR LAND CLEARING P.O. BOX 130 WILDWOOD FL 34785 PH. 748-7677 · Mobile 793-0762 Date 3/2/94
(D)	Ehmer A
Name Chalge	Name ////www.
Customer I more a	Customer Merch
Address Wild Eugoal	Address Mild LUOTA
lob #	Job #
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1. 11.	
Truck # 75 Rec'd By	Truck # Rec'd By 7.1
	··· ·

.D. J. L. _ËA W.D. ORR LAND CLEARING · ---1651 P.O. BOX 130 P.O. BOX 130 WILDWOOD FL 34785 WILDWOOD FL 34785 PH. 748-7677 · Mobile 793-0762 PH. 748-7677 · Mobile 793-0762 19 2 Date 🖌 Date , Name Name Customer Customer Address 1 Address & Job # Job # Truck # 92 Truck #____ Rec'd By Rec'd B W.D. ORR LAND CLEARING W.D. ORR LAND CLEARING :653 0651 P.O. BOX 130 P.O. BOX 130 WILDWOOD FL 34785 WILDWOOD FL 34785 PH. 748-7677 · Mobile 793-0762 PH. 748-7677 · Mobile 793-0762 Date <u>d</u> 29-94 Date Name (Name Customer Customer Address Address_d Job # Job # Truck # Truck # 92 Rec'd By Rec'd Bv

P.O. BOX 130 WILDWOOD FL 34785 PH. 748-7677 Mobile 793-0762

652

Date . Name (1 Customer Address <u>40</u> Job # 20 aa Truck # 8 2 Rec'd By 2012 W.D. ORR LAND CLEARING 0660 P.O. BOX 130 WILDWOOD FL 34785 PH. 748-7677 · Mobile 793-0762 Date _____ Name 🖉 Customer C2 W Address 11's Job # _ aar Truck # 5 4____ Rec'd By_____

WILDWOOD FL 34785 PH. 748-7677 · Mobile 793-0762 Date <u>3///94</u> Name <u>Ower</u> Customer <u>Gweer</u> Address <u>Wild Wood</u> Job #_____

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W.D. ORR LAND CLEARING

P.O. BOX 130

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Truck # 20 Rec'd By_____

	a de estas Altres de la companya									
I	NON-HAZARDOUS WASTE MANIFEST	1. Generator's U	1. Generolar's US EPA ID Ne. Manifest Document Ne. Document Ne.			2. Page 1 of 1				
I	3. W. ROMALD EASOUR, 12729 CR 103,				PIC	KUP A	T:			
	OXFORD, FL 34484				305 S. MAIN ST.					
\mathbf{F}	5. Transporter 1 Coregony Name 6. US IPA ID Number				NIL	DWOOD	<u>, FL</u>	<u> </u>		
ŀ	INDUSTRIAL WASTE RAST, INC.									
		1								
ľ	V. Designered Facility Name and Site Address 10. IWE GRORGIA, INC. 201 E. 8th ST. WOOKEINE, GA				B. Transporter's Phone					
						C. Fadity's Phone (912) 576-3009				
ļ	11, Wase Shipping None and Description					12. Cont	oloens J_	13. Tetal	34. Unii	
ŀ	· NON-HAZARDOUS OFF SPECIFI	CATION DIRS	KI. FURL.	<u> </u>			, <u>1719-</u>	Quantity		
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1	. Additional Descriptions for Materials Listed Above				E. Handi	ng Code	s for W	usin Listed Aber	1	
	, _,									
Ī	3. Special Handling instructions and Additional Information							·		
	A GENERATOR'S CHITECATION with the	and the second								
	Printed/Typed Name At		Signature	<u>_</u> Δ				Mast De	y Year	
1	7. Transporter 1 Advantedgement of Receipt pl	Noterials	r			<u> </u>		<u>10511</u>	1179	
	Varm latter Cark				#			b.411	1411	
5	B. Transporter 2 Adurantedgement of Roccipt of	Manufals								
	consequences sectors and a sector sec							Alonth De	7 1 ···	
1	19. Discrepancy Indication Space									
	and the second									
2	10. Positity Owner or Operators Certification of re	celpt of works mater	tals avered by this man	ifest except as noted	i in trem 1	P.	<u> </u>			
	Petried/Typed Name				41			Alamia Da	Year	
-	EARMON Murphy - Cannon &				Mr		17	516	. ×¢	
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		ORIGINA	LRETURN TO GE	NERATOR	1-1-1-1-1-1					