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Docket No. RP06-

HIGH ISLAND OFFSHORE SYSTEM, L.L.C.

DOCKET NO. RP06-____

**ROBERT C. BYRD
OFFSHORE NEGATIVE SALVAGE STUDY
VOLUME NO. 3 of 3**

**DECOMMISSIONING ESTIMATES UPDATE
HIOS STRUCTURES & PIPELINES
(REV. 0)**

PREPARED FOR

ENTERPRISE PRODUCTS PARTNERS L.P.

PREPARED BY



**TWACHTMAN SNYDER & BYRD, INC.
PROJECT NO. 26058
AUGUST 2006**



TWACHTMAN SNYDER & BYRD, INC._____

ENTERPRISE PRODUCTS PARTNERS L.P.

**DECOMMISSIONING ESTIMATES UPDATE
HIOS SYSTEM**

REPORT CONTROL SHEET

Date	Rev. No.	Revisions
08/23/06	0	Final Report

PREPARED BY:

TWACHTMAN SNYDER & BYRD, INC.

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ENTERPRISE PRODUCTS PARTNERS L.P.

August 2006

This report dated August 2006 ("Report") to Enterprise Products Partners L.P. ("Enterprise") presents cost estimates to decommission the platforms and pipelines associated with the High Island Offshore System in the Gulf of Mexico. Twachtman Snyder & Byrd, Inc. (TSB) prepared estimates solely for the benefit and private use of Enterprise.

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ENTERPRISE PRODUCTS PARTNERS L.P.
DECOMMISSIONING ESTIMATES UPDATE
HIOS SYSTEM
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EXECUTIVE SUMMARY



SECTION 1 - EXECUTIVE SUMMARY

Background

In 2002 El Paso Field Services (El Paso) engaged Twachtman Snyder & Byrd, Inc. (TSB) to estimate the decommissioning liabilities for platforms and pipelines associated with the High Island Offshore System. In July of 2006, Enterprise Products Partners L.P. (Enterprise) asked TSB to update these previously developed estimates to reflect the current 2006 decommissioning costs.

Results

A total of ten (10) structures and nine (9) pipelines were included in the study. The gross decommissioning cost was estimated at \$48.1 MM gross. Table 1.1 illustrates the cost breakdown.

Table 1.1 Platform Removal & Pipeline Abandonment Decommissioning Cost Summary

Platform Name	Platform Removal	Pipeline Abandonment (In-situ)	Total Cost
HI A 264 HIOS A-LIQ	\$2,607,955	1,939,612	\$4,547,567
HI A 264 HIOS B-FLARE	\$1,773,751	\$0	\$1,773,751
HI A 264 HIOS B-COMP	\$4,111,372	\$0	\$4,111,372
HI A 264 HIOS C-QTRS	\$1,515,950	\$0	\$1,515,950
HI A 330 HIOS	\$3,557,150	\$1,313,579	\$2,870,729
HI A 343 HIOS	\$3,296,651	\$1,305,762	\$4,602,413
HI A 350 HIOS (Pipeline)	\$0	\$931,318	\$931,318
HI A 370 HIOS (Pipeline)	\$0	\$744,418	\$744,418
HI A 573 HIOS	\$8,870,271	\$1,550,534	\$10,420,810
HI A 582 HIOS	\$8,864,215	\$2,777,133	\$11,641,350
WC 167 HIOS	\$2,064,706	\$0	\$2,064,706
WC 167 HIOS-FLARE	\$918,095	\$0	\$918,095
TOTAL	\$37,580,116	\$10,562,356	\$48,142,479

The estimates were updated using current 2006 resource rates that take into account the current market conditions. The significant increase in costs provided for this estimate are due to inflation, increased demand on materials and increased resource rates. The increase in resource rates is due to the rise in demand for support services such as derrick barges, lay barges, liftboats, dive boats, diving services, personnel and equipment, etc., as a result of the 2005 hurricane season.

The overall decommissioning cost increased by 18.8 MM from 2002 to 2006. Table 1.2 presents the changes.

Table 1.2 Platform Removal & Pipeline Abandonment Decommissioning Cost Δ by Year

	2002	2006	Gross Δ Total Cost
Platform Removal	\$23,932,904	\$37,580,116	\$13,647,212
Pipeline Abandonment (In-situ)	\$5,409,122	\$10,562,356	\$5,153,234
TOTAL	\$29,342,026	\$48,142,479	\$18,800,446
		% Δ	64.07 %

The decommissioning cost estimates are based on structure and facility information and documentation that were previously provided by El Paso and MMS database. Where information was not available, TSB made an assumption based on previous experience and estimates developed.



For these estimates, it has been assumed that all the decks, jackets and facilities will be taken to shore and scrapped. Pipelines will be flushed, cleaned, plugged and left *in-situ* in Federal waters and removed in State waters. Pipeline abandonment estimates were estimated only for those originating from the platform and operated by the platform operator. Wells P&A costs were not part of this study, as such the costs are not included.

The results of this study are presented in one binder. Section 2 presents a summary report that provides the platform abandonment costs developed by TSB. Section 3 explains the methodology used in decommissioning a platform and assumptions used in deriving the estimates. The *Platform Abandonment Estimating System* (PAES), TSB's proprietary decommissioning software is explained in Section 4. The detailed decommissioning estimate for each platform is found in Section 5.

SUMMARY REPORT



SECTION 2 - SUMMARY REPORT

This section presents a summary report that is sorted by platform. The summary report presents the platform, pipeline and well abandonment cost estimates, along with total abandonment liability on a gross and net basis.

All of these amounts were generated by PAES, *Platform Abandonment Estimating System*, a proprietary software program developed by TSB. The detailed printouts for each platform may be found at the end of this report. PAES is described in Section 4.

The following defines the column headings in the summary report:

Field	The field name used by MMS.
Platform	The name and number commonly used to describe the platform.
Removal Options	Type of removal method (Salvage, Tow to Reef, Topple in-place, and Partial Removal).
Function	Platform Function (Production, Drill/Prod, Quarters, SST or Well Protector, etc.).
Lease	Number assigned by the MMS for Gulf of Mexico Shelf Federal Waters.
Year Installed & Estimate Developed	Year platform was installed and year the platform removal estimated was developed.
Working Interest	Working interest in percent (%).
Platform Gross	The estimated gross cost of platform abandonment, not including salvage value.
Pipeline Gross	The estimated gross cost of pipeline abandonment.
Well Gross	The estimated gross cost of well abandonment.
Total Gross	The totals of platform gross, pipeline gross and well gross costs.
Total Net	The total of platform, pipeline and well net costs. At times, the platform, and/or wells do not have the same working interest.



Enterprise Products Partners L.P.

Summary Report

Field: High Island A264

Platform	Removal Options	Function	Lease	Year Inst/Est	Owner%	Platform Gross	Pipeline Gross	Well Gross	Total Gross	Total Net
1 HI A264 HIOS-A-LI	1	DRILL/MANIFOLD		79 /	100.00%	\$2,607,955	\$1,939,612	\$0	\$4,547,567	\$4,547,567
2 HI A264 HIOS-B Fla	1	AUXILIARY		79 /	100.00%	\$1,773,751	\$0	\$0	\$1,773,751	\$1,773,751
3 HI A264 HIOS-B-C	1	COMPRESSOR		79 /	100.00%	\$4,111,372	\$0	\$0	\$4,111,372	\$4,111,372
4 HI A264 HIOS-C QT	1	QUARTERS		79 /	100.00%	\$1,515,950	\$0	\$0	\$1,515,950	\$1,515,950
Field Total						\$10,009,028	\$1,939,612	\$0	\$11,948,640	\$11,948,640

Field: High Island A330

Platform	Removal Options	Function	Lease	Year Inst/Est	Owner%	Platform Gross	Pipeline Gross	Well Gross	Total Gross	Total Net
1 HI A330 HIOS (1)	1	DRILL/MANIFOLD		79 /	50.00%	\$3,557,150	\$1,313,579	\$0	\$4,870,729	\$2,435,365
Field Total						\$3,557,150	\$1,313,579	\$0	\$4,870,729	\$2,435,365

Field: High Island A343

Platform	Removal Options	Function	Lease	Year Inst/Est	Owner%	Platform Gross	Pipeline Gross	Well Gross	Total Gross	Total Net
1 HI A343 HIOS (1)	1	DRILL/MANIFOLD		79 /	100.00%	\$3,296,651	\$1,305,762	\$0	\$4,602,413	\$4,602,413
Field Total						\$3,296,651	\$1,305,762	\$0	\$4,602,413	\$4,602,413

Field: High Island A350

Platform	Removal Options	Function	Lease	Year Inst/Est	Owner%	Platform Gross	Pipeline Gross	Well Gross	Total Gross	Total Net
1 HI A350 Pipeline (1)				/	50.71%	\$0	\$931,318	\$0	\$931,318	\$472,271
Field Total						\$0	\$931,318	\$0	\$931,318	\$472,271



Enterprise Products Partners L.P.

Summary Report

Field: High Island A370

Platform	Removal Options	Function	Lease	Year Inst/Est	Owner%	Platform Gross	Pipeline Gross	Well Gross	Total Gross	Total Net
1 HI A370 Pipeline (1)				/	66.01%	\$0	\$744,418	\$0	\$744,418	\$491,390
Field Total						\$0	\$744,418	\$0	\$744,418	\$491,390

Field: High Island A573

Platform	Removal Options	Function	Lease	Year Inst/Est	Owner%	Platform Gross	Pipeline Gross	Well Gross	Total Gross	Total Net
1 HI A573 HIOS (1)	1	DRILL/MANIFOLD		79 /	100.00%	\$8,870,271	\$1,550,534	\$0	\$10,420,810	\$10,420,810
Field Total						\$8,870,271	\$1,550,534	\$0	\$10,420,810	\$10,420,810

Field: High Island A582

Platform	Removal Options	Function	Lease	Year Inst/Est	Owner%	Platform Gross	Pipeline Gross	Well Gross	Total Gross	Total Net
1 HI A582 HIOS (1)	1	DRILL/MANIFOLD		79 /	100.00%	\$8,864,215	\$2,777,133	\$0	\$11,641,350	\$11,641,350
Field Total						\$8,864,215	\$2,777,133	\$0	\$11,641,350	\$11,641,350

Field: West Cameron 167

Platform	Removal Options	Function	Lease	Year Inst/Est	Owner%	Platform Gross	Pipeline Gross	Well Gross	Total Gross	Total Net
1 WC 167 HIOS (1)	1	DRILL/MANIFOLD		79 /	100.00%	\$2,064,706	\$0	\$0	\$2,064,706	\$2,064,706
2 WC 167 HIOS-Flare	1	AUXILIARY		79 /	100.00%	\$918,095	\$0	\$0	\$918,095	\$918,095
Field Total						\$2,982,801	\$0	\$0	\$2,982,801	\$2,982,801



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.

Summary Report

Number of Platforms: 12

Grand Totals	\$37,580,116	\$10,562,356	\$0	\$48,142,479	\$44,995,040
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****Removal Options:**

1: Complete removal; 2: Remote reef site; 3: Topple in place; 4: Partial removal in place



Enterprise Products Partners L.P.

Summary Datasheet

Field: High Island A264

Platform	Function	Year Installed	Water Depth (ft)	#Piles(Ø")	Top Deck Dim (ft x ft)	Deck Weight (ton)	Jacket Weight (ton)	# Slots/ # Conductors (Ø")	#Wells	#Pipelines	#Pipelines Estimated
1 HI A264 HIOS-A-LIQ (1)	DRILL/MANIFOLD	79	152	8(36)	135X70	1100	1289		0	4	2
2 HI A264 HIOS-B Flare (1)	AUXILIARY	79	152	3(30)			230		0	0	0
3 HI A264 HIOS-B-CMP (1)	COMPRESSOR	79	152	10(48)	195X80	1300	1518		0	0	0
4 HI A264 HIOS-C QTRS (1)	QUARTERS	79	152	4(36)	50X50	300	600		0	0	0

Field: High Island A330

Platform	Function	Year Installed	Water Depth (ft)	#Piles(Ø")	Top Deck Dim (ft x ft)	Deck Weight (ton)	Jacket Weight (ton)	# Slots/ # Conductors (Ø")	#Wells	#Pipelines	#Pipelines Estimated
1 HI A330 HIOS (1)	DRILL/MANIFOLD	79	255	4(48)	41X41	300	1100		0	1	1

Field: High Island A343

Platform	Function	Year Installed	Water Depth (ft)	#Piles(Ø")	Top Deck Dim (ft x ft)	Deck Weight (ton)	Jacket Weight (ton)	# Slots/ # Conductors (Ø")	#Wells	#Pipelines	#Pipelines Estimated
1 HI A343 HIOS (1)	DRILL/MANIFOLD	79	235	4(48)	70X70	550	800		0	1	1

Field: High Island A350

Platform	Function	Year Installed	Water Depth (ft)	#Piles(Ø")	Top Deck Dim (ft x ft)	Deck Weight (ton)	Jacket Weight (ton)	# Slots/ # Conductors (Ø")	#Wells	#Pipelines	#Pipelines Estimated
1 HI A350 Pipeline (1)			0			0	0		0	1	1



Enterprise Products Partners L.P.

Summary Datasheet

Field: High Island A370

Platform	Function	Year Installed	Water Depth (ft)	#Piles(Ø")	Top Deck Dim (ft x ft)	Deck Weight (ton)	Jacket Weight (ton)	# Slots/ Conductors (Ø")	#Wells	#Pipelines	#Pipelines Estimated
1 HI A370 Pipeline (1)			0			0	0		0	1	1

Field: High Island A573

Platform	Function	Year Installed	Water Depth (ft)	#Piles(Ø")	Top Deck Dim (ft x ft)	Deck Weight (ton)	Jacket Weight (ton)	# Slots/ Conductors (Ø")	#Wells	#Pipelines	#Pipelines Estimated
1 HI A573 HIOS (1)	DRILL/MANIFOLD	79	340	4(36)	60X60	300	1901		0	1	1

Field: High Island A582

Platform	Function	Year Installed	Water Depth (ft)	#Piles(Ø")	Top Deck Dim (ft x ft)	Deck Weight (ton)	Jacket Weight (ton)	# Slots/ Conductors (Ø")	#Wells	#Pipelines	#Pipelines Estimated
1 HI A582 HIOS (1)	DRILL/MANIFOLD	79	330	4(36)	60X60	300	1701		0	2	2

Field: West Cameron 167

Platform	Function	Year Installed	Water Depth (ft)	#Piles(Ø")	Top Deck Dim (ft x ft)	Deck Weight (ton)	Jacket Weight (ton)	# Slots/ Conductors (Ø")	#Wells	#Pipelines	#Pipelines Estimated
1 WC 167 HIOS (1)	DRILL/MANIFOLD	79	46	8(36)	166X56	311	389		0	0	0
2 WC 167 HIOS-Flare (1)	AUXILIARY	79	46	3(30)			100		0	0	0

Number of Platforms: 12

METHODOLOGY & ASSUMPTIONS



SECTION 3 - GENERAL METHODOLOGY & ASSUMPTIONS

This section provides an illustrated description of the methodology involved in the decommissioning of offshore platforms. The *Platform Abandonment Estimating System* (PAES) was used to calculate decommissioning cost estimates for each of the platforms. A description of PAES and details of the estimating process developed for PAES are included in Section 4.

Based on the TSB's knowledge and experience in the construction and decommissioning of offshore structures, the tasks, time, and resources required to decommission the facilities in question were identified.

Cost estimates are presented in current 2006 dollars. Decommissioning efforts are based on the assumption that a knowledgeable contractor will use the most efficient technology and equipment available at this time. The decommissioning costs for each task are determined from actual cost data obtained from TSB files and rental rate schedules issued by various contractors involved in this type of work.

The assumptions used in this decommissioning study are as follows:

1. All decks and jackets and associated equipment are taken to shore and scrapped.
2. Removal Contractor is responsible for transport and disposal of decks, jackets, and associated equipment.
3. No salvage or resale value has been considered for the structure or equipment.
4. One derrick mobilization/demobilization cost is included for each block.
5. Mobilization times are estimated from the Eugene Island sea buoy.
6. No dockside mobilization or demobilization is included, construction barge spreads are assumed to be readily available in the Gulf of Mexico.
7. All work will be performed during the summer work season.
8. No allowances have been made for named tropical storm downtime.
9. The current guidelines for the use of explosives are assumed.
10. No allowances have been made for the presence of sea turtles or marine mammals.
11. All NORM, NOW, and industrial waste are removed from the platforms prior to decommissioning.
12. All pipelines are abandoned-in-place.
13. Tube Turns and 100' of pipeline are removed at each end of pipelines.
14. Tube Turns and pipelines are buried a minimum of 5ft. at the base of the platform.
15. All pipeline ends can be sealed using mechanical-type plugs. No provisions are made for more stringent environmental or safety regulations.
16. Site clearance and verification is in accordance with NTL 98-26.
17. Hourly rates for construction and diving spreads are developed from offshore contractors published rates.
18. Engineering & Project Management cost 8% (company or other).
19. Work Contingency 15%
20. Weather Contingency 6%



The following data will be assumed based on previous estimates developed and work experience:

- Pile OD
- Deck Weights
- Jacket Weights
- Grout Weights
- Equipment Weights

General platform components. The basic components of an offshore platform (from the top) are the helideck, equipment, deck, jacket, pipelines, and piles (Figure 1).

Platform decommissioning. All work that can be performed prior to the arrival of the derrick barge is done during the decommissioning phase. All personnel and equipment are mobilized to the platform on a work boat. The decommissioning crew will be housed in the existing quarters or temporary quarters. The task "Decommission Platform" has not been included for 1-pile or 2-pile platforms.

In this phase, the crew flushes all piping and equipment which contained hydrocarbons. All equipment that will be removed separately from the deck is cut loose using oxygen-acetylene torches. The piping, electrical, and tubing interconnections between equipment are also cut. All work needed to prepare the components for lifting (such as installing lifting eyes etc.) is completed at this phase.

Any pipelines connected to the platform are decommissioned at this time. The decommissioning crew flushes the line by pumping (pushing) a cleaning plug (called a "pig") through the line with seawater (Figure 2). Divers will then expose the pipeline and cut the line approximately ten feet out from the base of the jacket. The severed end of the pipeline is then plugged and buried three feet below the mudline (Figure 3). The other end of the pipeline is also exposed, cut, plugged and buried.

Mobilizing. Cargo barges are outfitted at a fabrication yard with steel pads (load spreaders) to support the point loads of the jacket and deck. More than one cargo barge may be outfitted depending on the size of the deck and jacket. A tug boat then tows each cargo barge to the offshore location. Another tug boat moves the derrick barge (with its crew and equipment) to the offshore location (Figure 5).

Setting up derrick barge. When the derrick barge arrives on site, the derrick barge's anchor handling tug boat sets up the anchoring system. This anchoring system holds the derrick barge in position during the platform removal process. The derrick barge's anchoring system consists of eight anchors, each connected to a mooring winch by a cable. Each anchor is equipped with a pendant wire that is long enough to reach from the seabed to the surface where it is supported by a buoy (Figure 6). The anchor handling tug picks up the anchors by securing the pendant wire and winching up the anchor. The anchor handling tug then carries the anchor to the desired location. This process is repeated for each of the derrick barge's anchors.

Removing deck and equipment. Each piece of equipment that is on the top deck of the platform is removed and placed on a cargo barge. The equipment is secured by welding pieces of steel pipe (or plate) from the equipment to the deck of the cargo barge (Figure 7).



The deck is then removed by cutting the welded connections between the piles and the deck legs with oxygen-acetylene torches. Depending on the size of the deck, it may be cut into sections for removal. Slings are attached to the deck lifting eyes and to the derrick barge crane. The derrick barge's crane lifts the deck (or deck sections) from the piles. The platform deck is then seated in the load spreaders and secured by welding steel pipe from the platform's deck legs to the deck of the cargo barge (Figure 8).

Disposing deck and equipment. The cargo barge transporting the deck and equipment moves to the onshore fabrication yard. The equipment is lifted with cranes from the barge to the yard. The conductors are lifted with cranes from the barge to the yard. Finally, the deck is skidded off the barge into the yard. All of the structural components and equipment are cut into small pieces and disposed of as scrap.

Severing piles. A jetting process is necessary to clear the mud plug to allow the explosive charges to be placed fifteen feet below the mudline. The mud plug was formed when the piles were driven in the sea floor. The mud plug must be jetted from each pile.

After the mud plug is jetted from each pile, explosive charges are placed and detonated in each of the piles (Figure 9). The piles may be removed from the jacket legs if they are not grouted to reduce the lift weight. The jacket is then removed from its position on the seabed.

Disposal of jacket onshore. After severing the main piles, the jacket is lifted, set, and secured onto cargo barges (Figure 10). The cargo barge transporting the jacket travels to a fabrication yard. Skid rails and winches are rigged up, and the jacket is skidded off the barge into the yard. The jacket is cut into small pieces and disposed of as scrap.

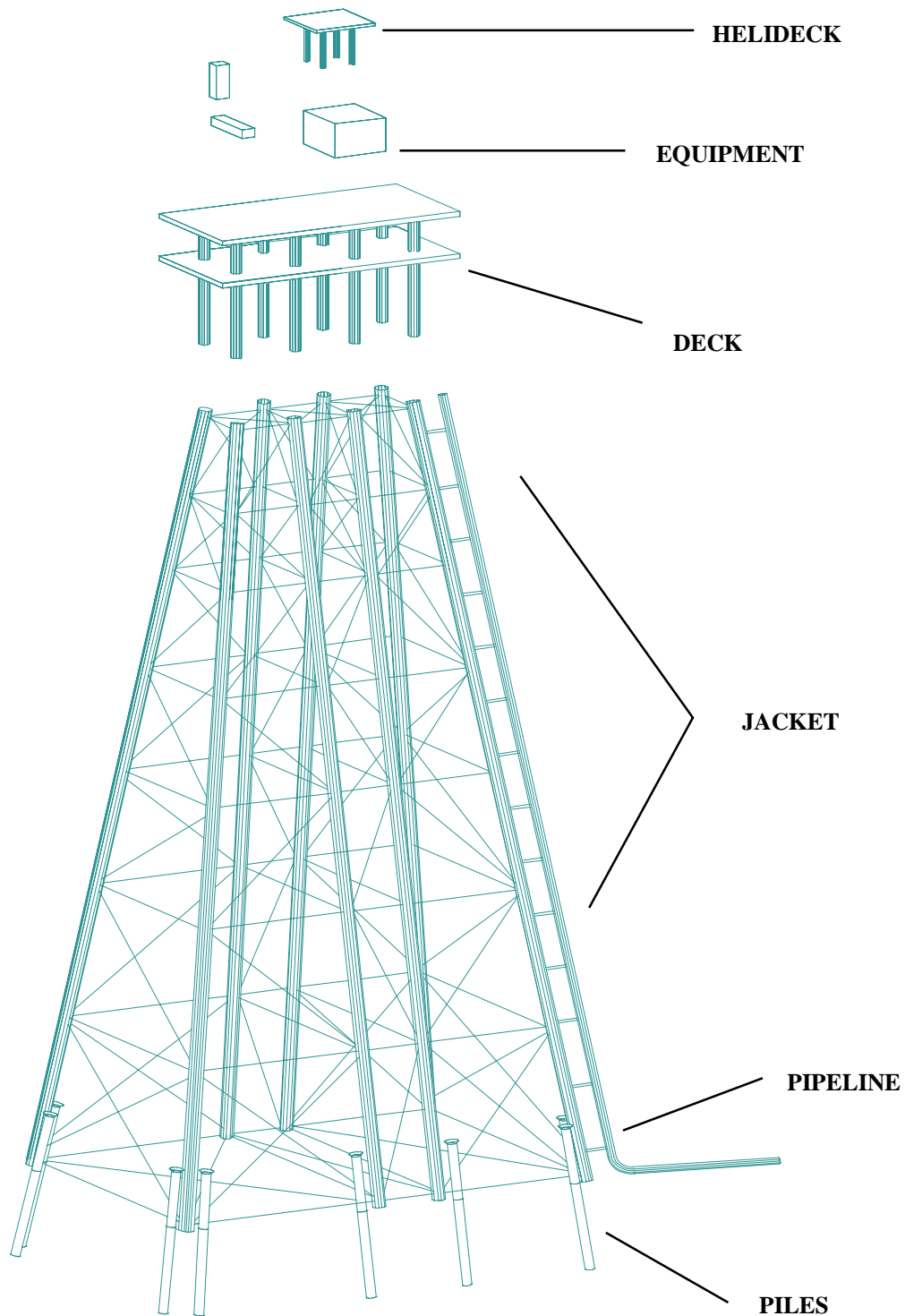
Disposal of jacket at remote reef site. If the jacket is to be disposed of at a remote reef location, the derrick barge rigs, lifts and secure the jacket (Figure 11). The jacket is then towed on the hook to the reef site. At the site, the derrick barge sets the jacket on the seafloor vertically. The derrick barge then topples the jacket creating an artificial reef site. A reef donation is included in the decommissioning estimate.

Toppling jacket in place. If the jacket is to be toppled in place (in-situ), the derrick barge or a specially equipped pull barge topples the jacket to create an artificial reef (Figure 12). The piles and conductors remain in the jacket as part of the reef. A reef donation is added to the decommissioning estimate.

Clearing the site. After the platform is removed, the area is cleared of debris by using specially equipped trawlers with nets, commonly called "Gorilla Nets". The trawlers remove all debris from around the platform site and send the debris to shore for disposal.



FIGURE 1 - GENERAL PLATFORM COMPONENTS





PLATFORM DECOMMISSIONING

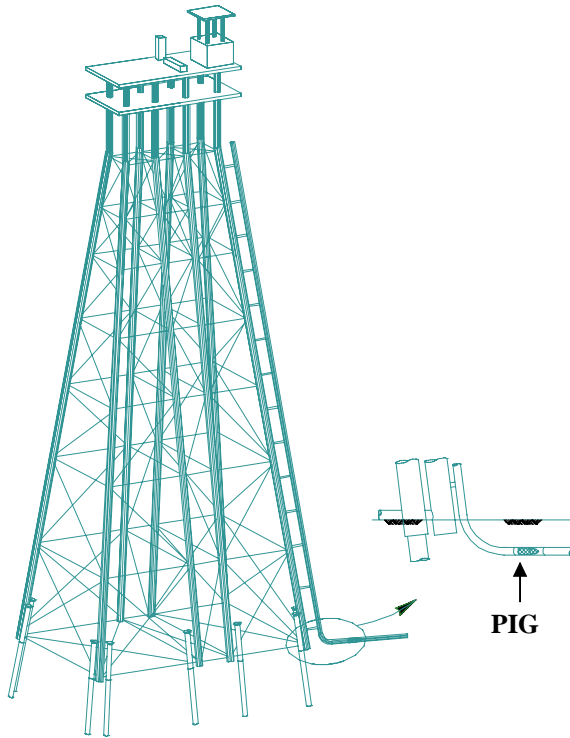


FIGURE 2

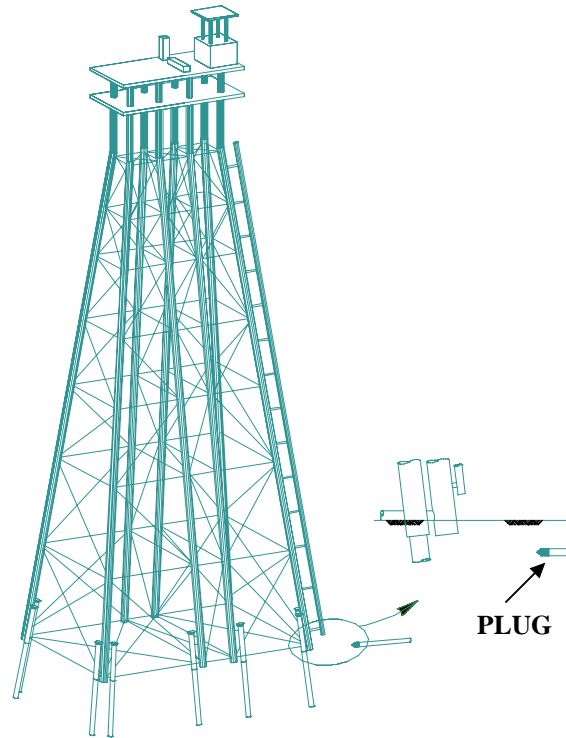


FIGURE 3

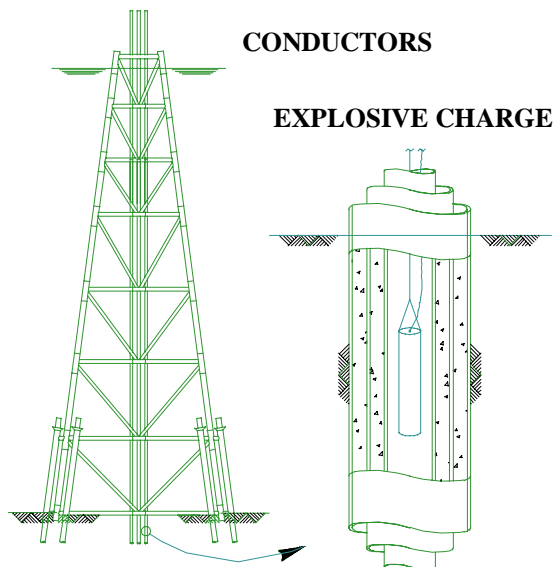


FIGURE 4



MOBILIZING

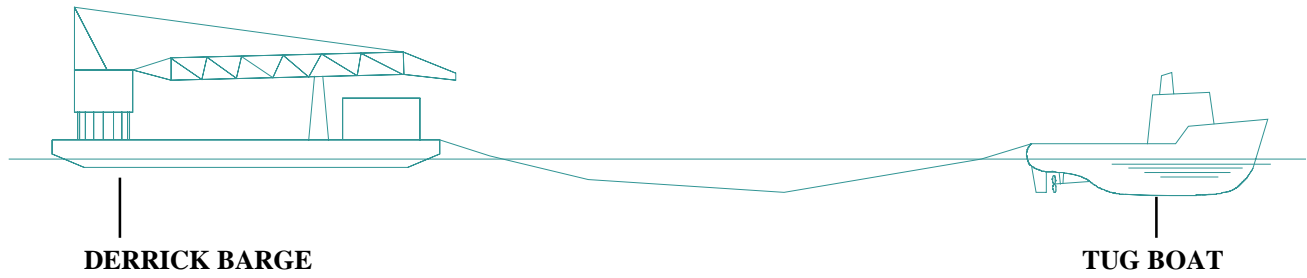


FIGURE 5

SETTING UP DERRICK BARGE

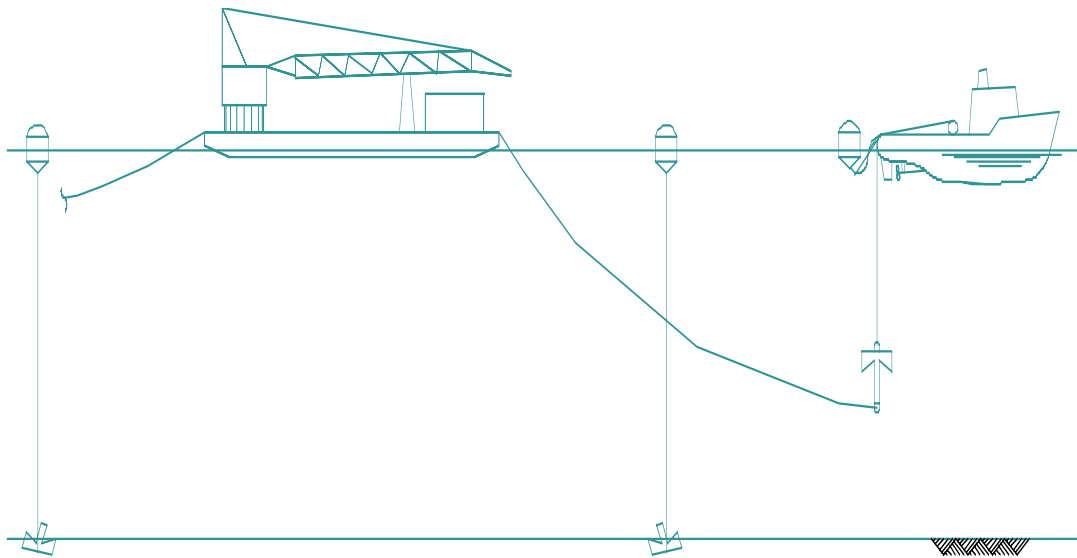


FIGURE 6



REMOVING DECK AND EQUIPMENT

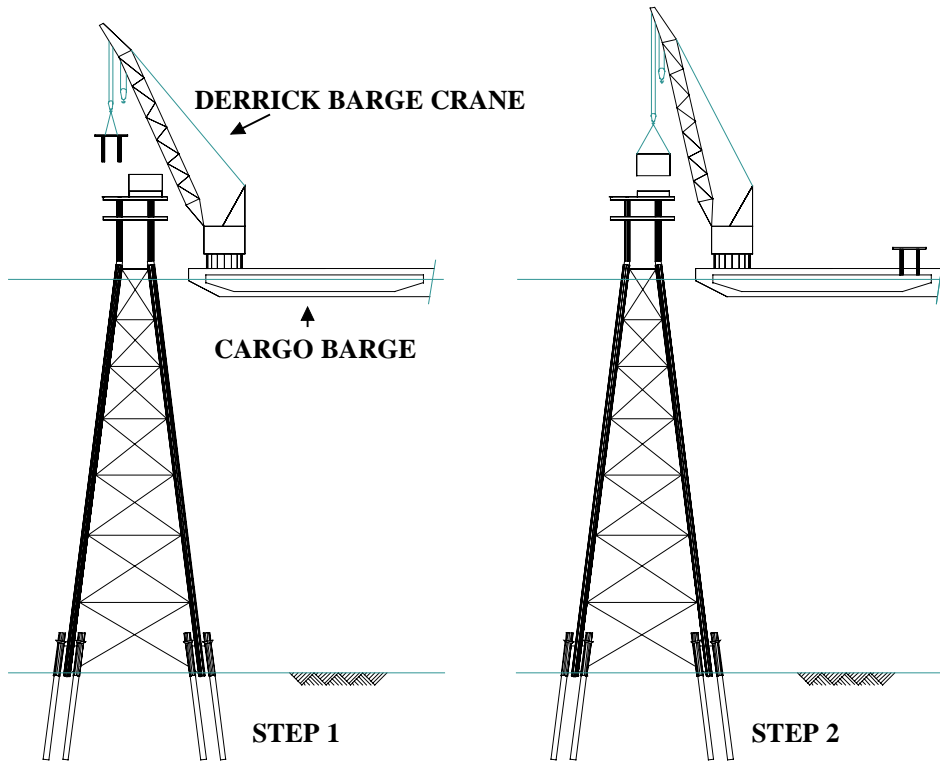


FIGURE 7

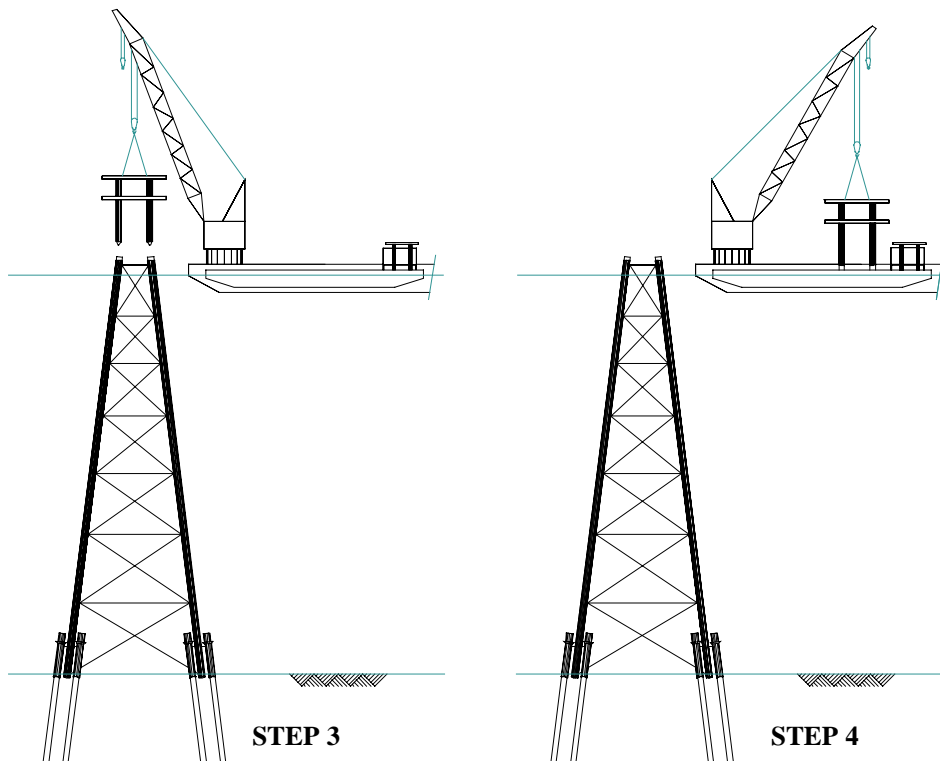


FIGURE 8



FIGURE 9 - SEVERING THE PILES

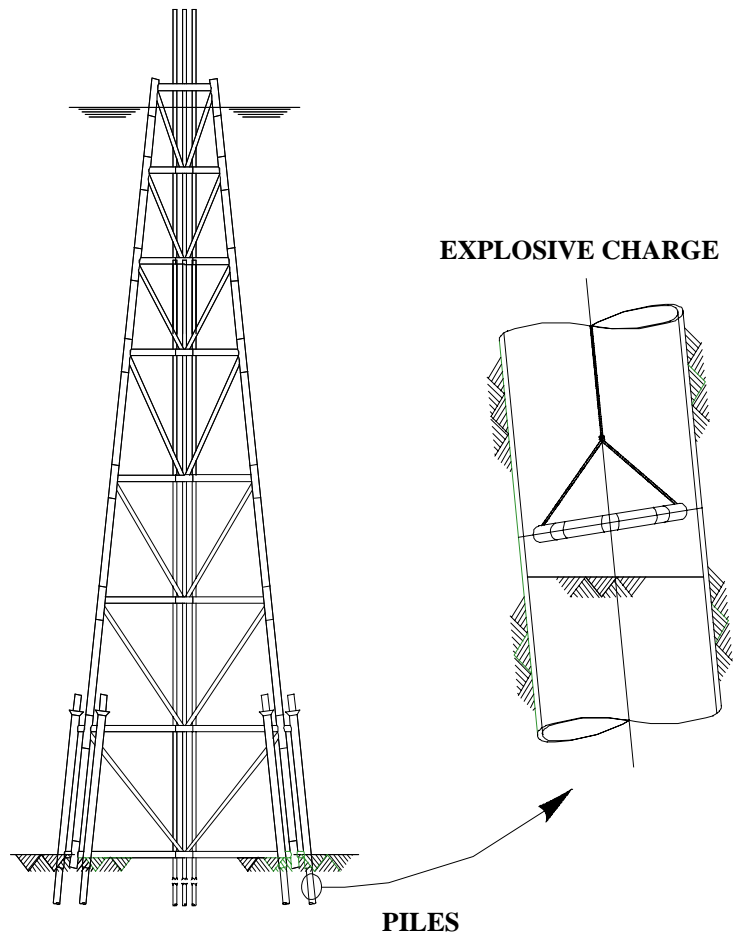
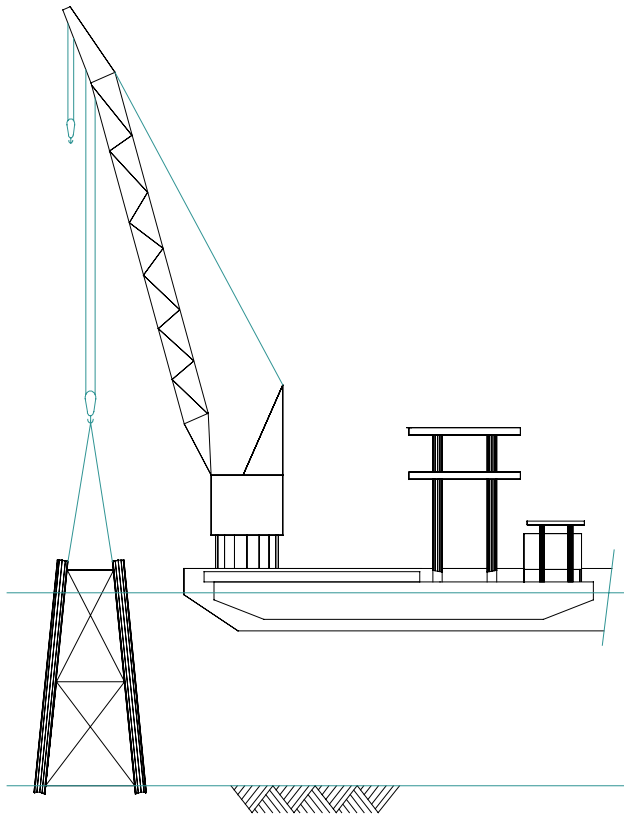
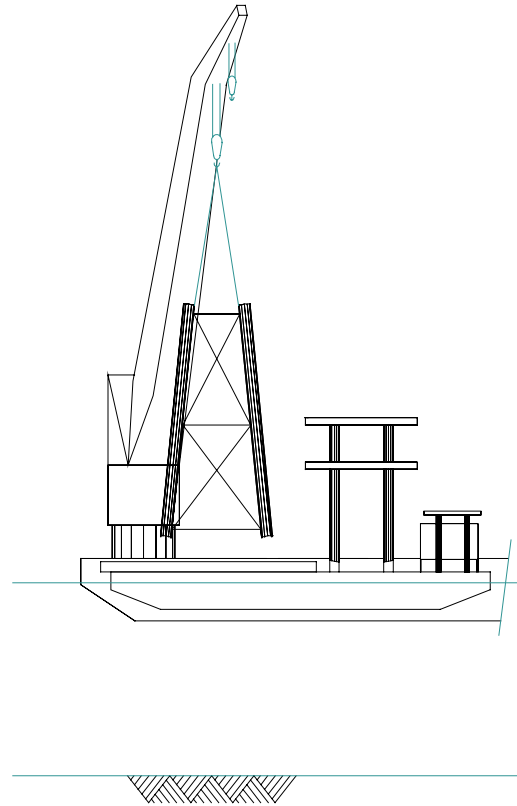




FIGURE 10 - SETTING JACKET ON CARGO BARGE



Lift Jacket from Seafloor



Set Jacket on Cargo Barge



FIGURE 11 - TOWING AND TOPPLING THE JACKET AT A REMOTE REEF SITE

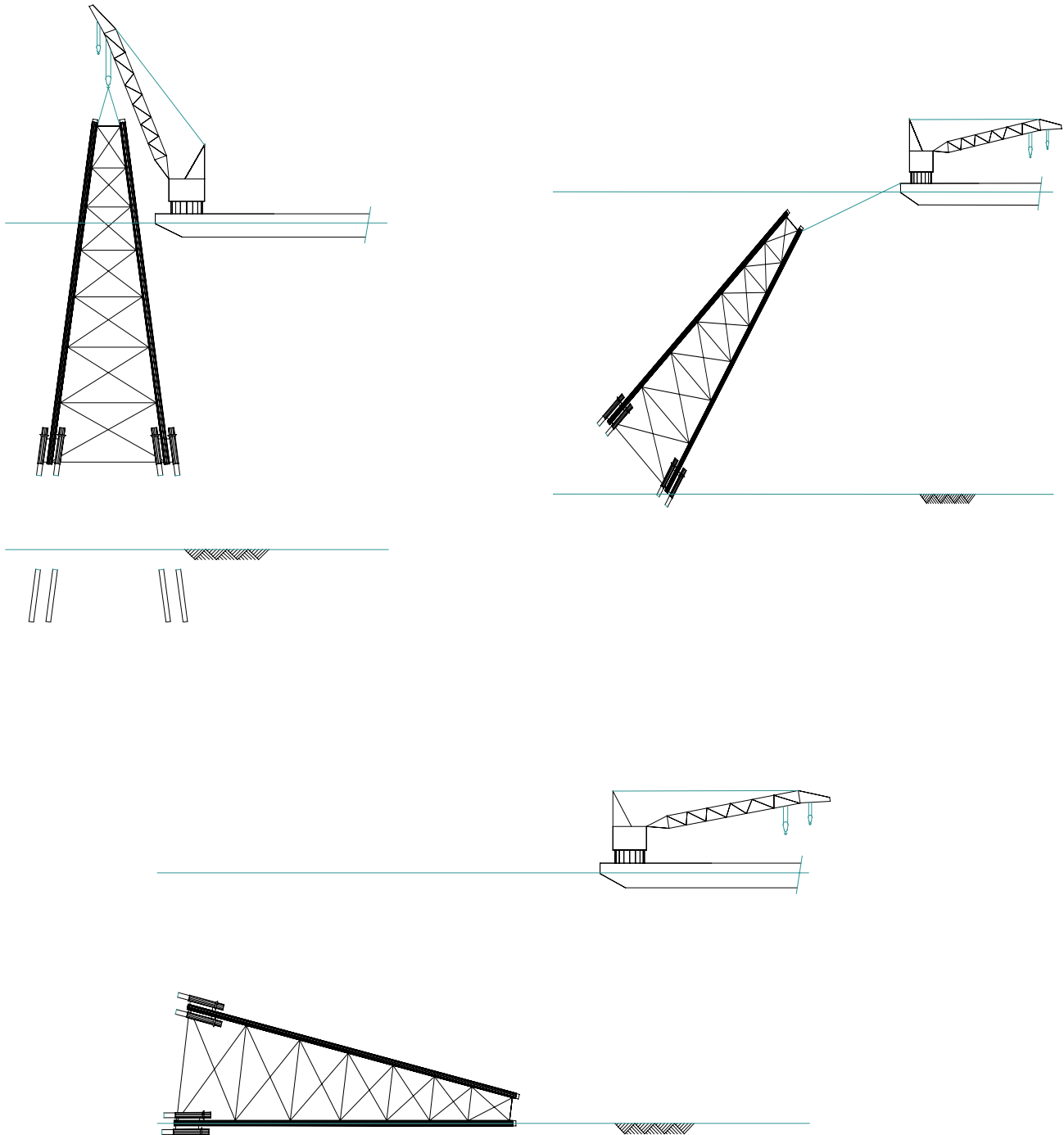
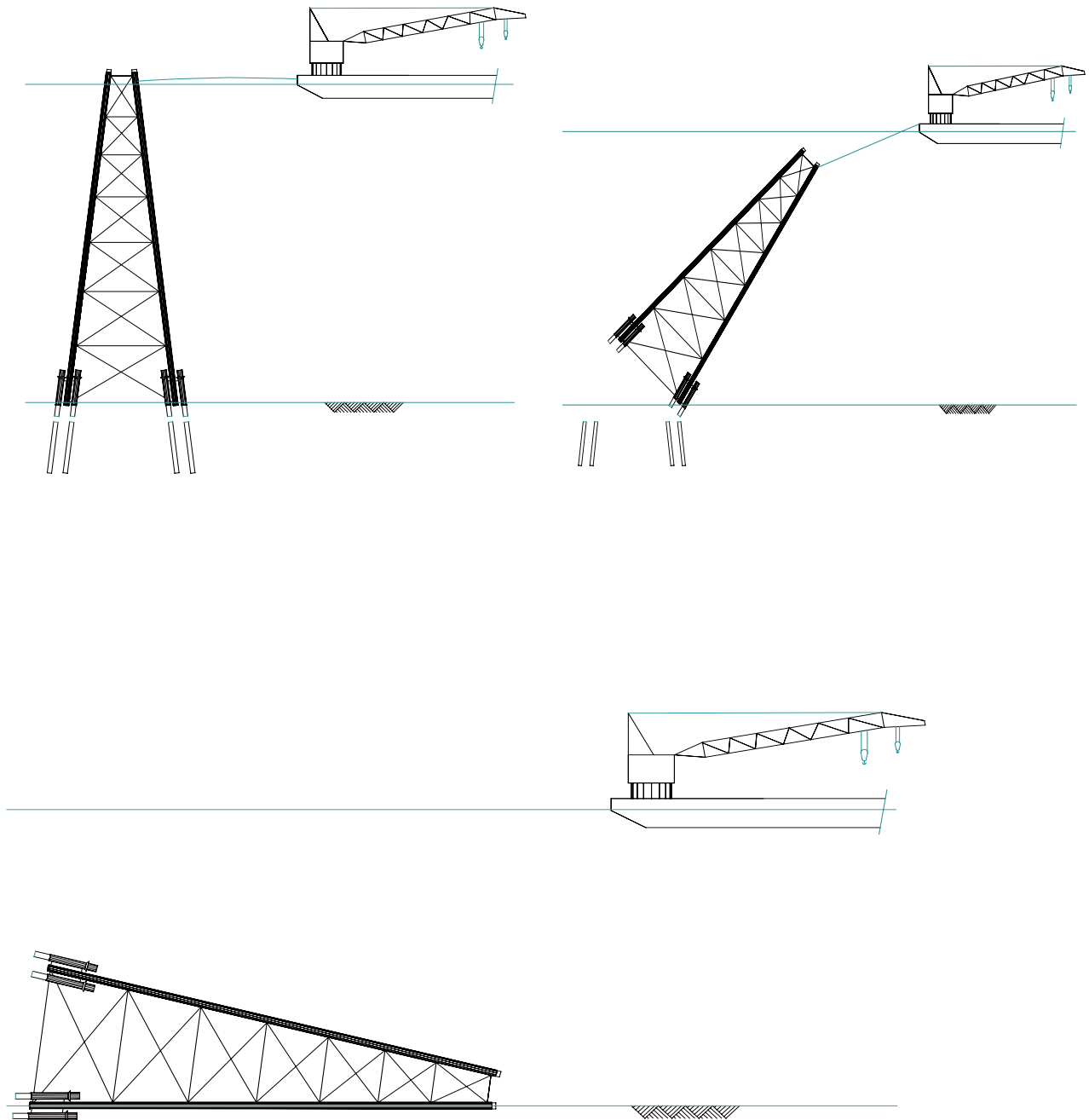




FIGURE 12 - TOPPLING JACKET IN PLACE (IN SITU)





SPECIFIC PIPELINE INFORMATION

The following guidelines have been used to calculate the pipeline decommissioning costs for the platforms in which BP operates or has a working interest:

- The pipeline information is based on information from MMS pipeline listings.
- A pipeline decommissioning cost was estimated only if the following conditions applied for outgoing pipelines:
 - The platform operator is the same as the pipeline operator or BP has defined an interest in the pipeline.
 - The pipeline is active, out-of-service or partially abandoned.
 - The pipeline originates at the platform. In the case where an out-of-service pipeline exists and where the originating platform or structure has been previously removed, the decommissioning cost has been added to the terminating structure.

PAES
(PLATFORM ABANDONMENT ESTIMATING SYSTEM)



SECTION 4 - PAES SOFTWARE

TSB's proprietary database program, *Platform Abandonment Estimating System* (PAES), was developed by TSB to provide reliable cost estimates for abandoning offshore platforms, pipelines, and wells. These estimates are useful in determining year-end financial reserves, tax reporting and support, abandonment AFE's, economic analysis of acquisitions, and bonding.

PAES contains specific data profiling of over 1,500 domestic and international platforms. Equipment rates are derived from actual projects. Assumptions, variables, and data are entered by section. Refer to Section 3 for a discussion of the methodology.

PAES printouts are organized into five sections designated by Roman numerals:

I Summary

scope of work, disposal method, conditions, operating assumptions, total estimated cost

II Basic Information

general data, partner data, estimated costs by platform, pipeline, well

III Platform

general data, piles, deck, conductors, jacket, equipment, tasks/resources, costs

IV Pipeline

general data, pipeline data, tasks and resources, costs

V Well

general data, well data, tasks and resources, costs



INFORMATION USED IN ESTIMATING PROCESS

This section provides a detailed description of the method used to estimate the cost of abandoning offshore platforms and pipelines using *Platform Abandonment Estimating System* (PAES). Each step in the process for Sections II-IV is explained.

The estimating process begins with a review of the documents contained in the file for each platform. From this review, a profile is created of physical characteristics of the structure, the purpose of the structure (e.g. drilling, production, etc.) and the partnership interests. A procedure for removal is then developed.

The description that follows is of a sample platform in the Gulf of Mexico. The selection criteria includes the date the platform was placed in service, water depth, number of piles, platform function, well information, and pipeline information. The following information is taken from the platform file.

BASIC INFORMATION [PAES - SECTION II]

General Data

Field

This is the name of the offshore field where the platform is located.

Function

This describes the purpose of the platform. Common platform functions include production, well protector, drilling, quarters, and caisson. The function indicates the type and quantity of equipment on the platform as well as deck lift weight. Platforms may be multifunctional.

Type

This describes the material used to construct the platform (steel, wood, or concrete). This is used in determining the method used to remove the platform.

Water Depth

This is the measure of the depth of water at the platform location.

Pre 461H

Platforms set before July 18, 1984 are not subject to the economic performance requirements of internal revenue code section 461H.

Year Installed

This is the year the platform was installed or placed in service.

Estimated Removal Year

This is the year being used for estimating the cost of the removal of the platform.

Actual Removal Year

This is the actual year the platform was removed.

District

This identifies the general area of the platform's location (Gulf of Mexico, California, etc.).

Lease Number

This is a number assigned by the Minerals Management Service at the time the lease is issued.

Wells Abandoned

This value equals the number of wells on the platform which are to be abandoned.

Pipelines Abandoned

This value equals the number of pipelines on the platform which are to be abandoned.

Partner Data

Partner

This identifies the partner(s) who own a share in the platform.

Working Interest

This is the percent ownership of each partner in the platform.



Estimated Costs

Platform Abandonment Gross Cost

This is the estimated gross (total) cost to abandon the platform. A reef donation is included in the decommissioning estimate, which is estimated as half of the savings realized by not removing the jacket to shore.

Platform Abandonment Net Cost

This is the net value of the platform abandonment cost determined by multiplying the working interest times the platform abandonment gross cost.

Well Abandonment Gross Cost

This is the estimated gross (total) cost to abandon the well(s) on the platform.

Well Abandonment Net Cost

The net value of the abandonment cost determined by multiplying working interest in each well times the abandonment cost for the well, then summing for all wells.

Pipeline Abandonment Gross Cost

This is the estimated gross (total) cost to abandon the pipeline(s) on the platform.

Pipeline Abandonment Net Cost

This is the net value of the pipeline abandonment cost for the pipeline(s) on the platform determined by multiplying the working interest times the platform abandonment gross cost.

Total Abandonment Gross Cost

This is the sum of the estimated gross platform, well, and pipeline abandonment costs.

Total Abandonment Net Cost

This is the sum of the estimated net platform, well, and pipeline abandonment costs.

DETAILED ESTIMATES



SECTION 5 – DETAILED ESTIMATES

HI A264 HIOS-A-LIQ



Enterprise Products Partners L.P.

Platform Salvage Option

HI A264 HIOS-A-LIQ (Ver 1)

High Island Block A264 has five structures that are operated by Enterprise Products Partners L.P. The structures will be removed in one mobilization and demobilization of a 2000-ton derrick barge. All production equipment will be flushed and purged of any hydrocarbons. The equipment that will be removed by the derrick barge will be cut free of the platform.

Also the pipelines will be pigged, flushed, cleaned, plugged and left in-situ. (See #12 below.)

High Island A264 HIOS-A-LIQ is an 8-pile Liquid Gathering Platform installed in 1979 in 152' water depth and bridge connected to the HI A264 HIOS-C-QTR platform. Since the A and C platforms are bridge connected, one 48-hour turtle watch operation conducted by the National Marine Fisheries service will be needed. The top deck equipment, bridge and deck will be placed on a 240' x 72' cargo barge. The jacket piles will be explosively severed and removed from the jacket. The jacket section will be loaded onto a 240' x 72' cargo barge. The piles will be placed on a 180' x 54' cargo barge. The decks, facilities and jacket will be taken to shore and scrapped. A 1,400 ft radius will be needed to clear the High Island A-264 platform sites of any bottom debris.

This estimate is based on the following assumptions:

1. All decks and jackets and associated equipment are taken to shore and scrapped.
2. Removal Contractor is responsible for transport and disposal of decks, jackets, and associated equipment.
3. No salvage or resale value has been considered for the structure or equipment.
4. One derrick mobilization/demobilization cost is included for each block.
5. Mobilization times are estimated from the Eugene Island sea buoy.
6. No dockside mobilization or demobilization is included, construction barge spreads are assumed to be readily available in the Gulf of Mexico.
7. All work will be performed during the summer work season.
8. No allowances have been made for named tropical storm downtime.
9. The current guidelines for the use of explosives are assumed.
10. No allowances have been made for the presence of sea turtles or marine mammals.
11. All NORM, NOW, and industrial waste are removed from the platforms prior to decommissioning.
12. All pipelines are abandoned-in-place.
13. Tube Turns and 100' of pipeline are removed at each end of pipelines.
14. Tube Turns and pipelines are buried a minimum of 5ft. at the base of the platform.
15. All pipeline ends can be sealed using mechanical-type plugs. No provisions are



Enterprise Products Partners L.P.

Platform Salvage Option

HI A264 HIOS-A-LIQ (Ver 1)

made for more stringent environmental or safety regulations.

16. Site clearance and verification is in accordance with NTL 98-26.

17. Hourly rates for construction and diving spreads are developed from offshore contractors published rates.

18. Engineering & Project Management cost 8% (company or other).

19. Work Contingency 15%

20. Weather Contingency 6%

The following data will be assumed based on previous estimates developed and work experience:

Pile OD

Deck Weights

Jacket Weights

Grout Weights

Equipment Weights

Estimated Decommissioning Gross Cost = \$4,547,567

Estimated Decommissioning Net Cost = \$4,547,567



Enterprise Products Partners L.P.

Basic Information

HI A264 HIOS-A-LIQ (Ver 1)

General Data

Platform:	HI A264 HIOS-A-LIQ
Function:	DRILL/MANIFOLD
Type:	Steel
Water Depth:	152'
Pre 461H?:	Yes
Year Installed:	1979
Year Estimate Developed:	
District:	Gulf of Mexico
Lease Number:	
Account Code:	TSB - 26058
Amortization:	1.00
# Wells to P & A:	0
# Pipelines to Abandon:	2
Estimate Complete?:	Yes

Partner Data

Partner	Working Interest
1 Enterprise Products Partners L.P.	100.00%

Estimated Costs

	Gross Cost	Net Cost
Platform Removal:	\$2,607,955	\$2,607,955
Well Plugging & Abandonment:	\$0	\$0
Pipeline Abandonment:	\$1,939,612	\$1,939,612
Total Decommissioning Cost:	\$4,547,567	\$4,547,567



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Platform Information

HI A264 HIOS-A-LIQ (Ver 1)

Pile/Tendon Data

	Number	Outside Diameter	Wall Thickness	Grout Annulus	Grout Internal	Depth Below Mudline
Main:	8	36"	1.5"	No	No	
Skirt/Braced	0			No	No	
Anchor:	0					
Dolphin:	0					

Deck Dimensions

	Dimensions	Elevation
Upper:	135X70	
Middle:		
Lower:		

Conductors

Number of Slots:	0
Number Installed:	0
Outside Diameter:	
Wall Thickness:	
Number Slanted:	0

Jacket Data

	Weight (Tons)	With Piles	With Piles & Grout
Submerged:			
Dry:	1289.00		
Jacket Installation Date:			
Jacket Contractor:			

Deck Data

Deck Lift Weight with Equipment:	1100 Tons
Number of Padeyes Required:	0
Deck Installation Date:	3/30/79
Deck Contractor:	



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Platform Information

HI A264 HIOS-A-LIQ (Ver 1)

Equipment Lift Weights

Equipment	Weight (Tons)
Bridge 200'	75.00
Equipment Package 1	150.00
Equipment Package 2	150.00
Equipment Package 3	200.00
Heliport	30.00

Members to be Cut Data

Top Members		Underwater Members	
Size	Qty	Size	Qty
14.00	1.00	14.00	2.00
16.00	2.00	16.00	6.00
		18.00	7.00
		20.00	5.00
		30.00	4.00

Cargo Descriptions

Cargo Barge Size	Cargo Description		
CB 240 x 72	Deck > 500T	Bridge	Equipment
CB 180 x 54	Piles		
CB 240 x 72	Jkt > 700T		

Miscellaneous Data

Derrick Barge Anchors:	8
Assist Derrick Barge Anchors:	0
Tow Distance:	0.00
Provision for Misc. Work%:	15.00%
Weather Contingency%:	6.00%
Engineering%:	8.00%

Miscellaneous Costs

Consumables:	\$0.00
Waste Disposal:	\$0.00
Structure & Equipment Disposal:	\$0.00
Reef Donation:	\$0.00
Cost of Engineering:	\$172,483.30



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.

Platform Comments

HI A264 HIOS-A-LIQ (Ver 1)

Assumed the following:

Jacket Weights, Deck Weights, Pile Sizes, Equipment Weights, Bridge Weights,
Deck(s) Sizes



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Platform Decommission Task Information

HI A264 HIOS-A-LIQ (Ver 1)

Task	Note	Contingency	Task Hours		Task Cost	
Fab Explosive Charges		<input type="checkbox"/>	0.00	0.00%	\$20,000.00	0.77%
Platform Removal Preparation		<input type="checkbox"/>	504.00	27.33%	\$428,400.00	16.43%
Mobilize Work Boat	Divided b/w the HIOS platforms in the field.	<input type="checkbox"/>	4.30	0.23%	\$2,046.80	0.08%
NMFS Marine Observation	Divided b/w the HIOS platforms in the field.	<input type="checkbox"/>	12.00	0.65%	\$5,712.00	0.22%
Demob Work Boat	Divided b/w the HIOS platforms in the field.	<input type="checkbox"/>	4.30	0.23%	\$1,505.00	0.06%
Mobilize DB 2000	Divided b/w the HIOS platforms in the field.	<input type="checkbox"/>	5.08	0.28%	\$56,755.36	2.18%
Mobilize CB 240 & Tug	Deck, Equipment & Bridge	<input type="checkbox"/>	36.40	1.97%	\$32,200.00	1.23%
Mobilize CB 180 & Tug	Piles (shared with B-Comp)	<input type="checkbox"/>	18.20	0.99%	\$14,734.00	0.56%
Mobilize CB 240 & Tug	Jacket	<input type="checkbox"/>	36.40	1.97%	\$32,200.00	1.23%
Setup Derrick Barge		<input checked="" type="checkbox"/>	6.75	0.37%	\$67,959.00	2.61%
Cut Deck/Equip/Misc		<input checked="" type="checkbox"/>	3.85	0.21%	\$40,686.80	1.56%
Remove Equipment		<input checked="" type="checkbox"/>	8.00	0.43%	\$84,544.00	3.24%
Remove 8 Pile Deck		<input checked="" type="checkbox"/>	9.35	0.51%	\$98,810.80	3.79%
Demob CB 240 & Tug		<input type="checkbox"/>	36.40	1.97%	\$18,200.00	0.70%
Jet/Airlift Pile Mud Plug		<input checked="" type="checkbox"/>	31.00	1.68%	\$323,578.00	12.41%
Standby for Daylight Det.		<input checked="" type="checkbox"/>	8.00	0.43%	\$83,504.00	3.20%
Pre/Post Detonat'n Survey		<input checked="" type="checkbox"/>	1.00	0.05%	\$16,688.00	0.64%
Sever Piles- Explosive		<input checked="" type="checkbox"/>	4.84	0.26%	\$50,519.92	1.94%
Remove Piles from Jackt Legs		<input checked="" type="checkbox"/>	18.78	1.02%	\$196,025.64	7.52%
Demob CB 180 & Tug	Piles (shared with B-Comp)	<input type="checkbox"/>	18.20	0.99%	\$6,734.00	0.26%
Remove Jacket - Meth 3		<input checked="" type="checkbox"/>	21.70	1.18%	\$226,591.42	8.69%
Demob CB 240 & Tug		<input type="checkbox"/>	36.40	1.97%	\$18,200.00	0.70%
Pick Up DB Anchors		<input checked="" type="checkbox"/>	6.75	0.37%	\$66,231.00	2.54%
Demob DB 2000	Divided between the HIOS platforms in the field.	<input type="checkbox"/>	5.08	0.28%	\$56,094.96	2.15%
Site Clearance - with Trawler	Divided between the HIOS platforms in the field.	<input checked="" type="checkbox"/>	71.07	3.85%	\$45,042.27	1.73%
Site Clearance Verify	Divided between the HIOS platforms in the field.	<input checked="" type="checkbox"/>	106.14	5.75%	\$30,438.54	1.17%
Offload CB 180	Piles (shared with B-Comp)	<input type="checkbox"/>	48.00	2.60%	\$24,800.00	0.95%
Offload CB 240		<input type="checkbox"/>	720.00	39.04%	\$107,840.00	4.14%
Task Total			1781.99	96.62%	\$2,156,041.51	82.67%
Misc. Work Provision (15.00%)			44.58	2.42%	\$199,592.90	7.65%
Weather Contingency (6.00%)			17.83	0.97%	\$79,837.16	3.06%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%
Storage / Scrapping					\$0.00	0.00%
Reef Donation					\$0.00	0.00%



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Enterprise Products Partners L.P.
Platform Decommission Task Information
HI A264 HIOS-A-LIQ (Ver 1)

Task	Note	Contingency	Task Hours	Task Cost
		Cost of Engineering (8.00%)		\$172,483.30 6.61%
		Total:	1844.40 100.00%	\$2,607,954.87 100.00%



Enterprise Products Partners L.P.

Platform Decommission Resources Breakdown

HI A264 HIOS-A-LIQ (Ver 1)

Resource Used	Unit Cost		Cost	
Cargo Barge 180	\$2,400.00	per Day per Barge	\$4,800.00	0.18%
Cargo Barge 240	\$2,928.00	per Day per Barge	\$87,840.00	3.37%
CB 180 & Tug	\$370.00	per Hour per Barge/Tug	\$37,007.40	1.42%
CB 240 & Tug	\$500.00	per Hour per Barge/Tug	\$94,250.00	3.61%
CB Damage Deduct	\$20,000.00	per Cargo Barge	\$40,000.00	1.53%
Decomm Platform	\$0.00	Calculated from tables	\$252,000.00	9.66%
Derrick Barge 2000	\$8,815.00	per Hour per barge	\$1,147,536.72	44.00%
Dive Serv - Basic	\$0.00	Calculated from tables	\$115,209.30	4.42%
Expl Charge - Piling	\$0.00	per Inch of Outside Diam	\$20,000.00	0.77%
Expl Technician	\$130.00	per Hour	\$15,385.50	0.59%
Helicopter Trips	\$6,250.00	per Round Trip	\$18,750.00	0.72%
Nets (Heavy Duty, Non-Repairable)	\$4,800.00	ea	\$14,400.00	0.55%
Nets (Heavy Duty, Repairable)	\$2,400.00	ea	\$19,200.00	0.74%
Nets (Non-Repairable)	\$2,150.00	ea	\$6,450.00	0.25%
Nets (Repairable)	\$1,150.00	ea	\$6,900.00	0.26%
NMFS Observers (2)	\$126.00	per Hour	\$13,591.62	0.52%
Pipeline Survey	\$112.00	per Hour	\$14,580.16	0.56%
Rig Up CB 180	\$8,000.00	per Barge	\$8,000.00	0.31%
Rig Up CB 240	\$14,000.00	per Barge	\$28,000.00	1.07%
Trawler	\$161.00	per Hour	\$28,530.81	1.09%
Work Boat	\$350.00	per Hour	\$183,610.00	7.04%



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A264 HIOS-A-LIQ (Ver 1)

Task	Task Hours		Task Cost	
Fab Explosive Charges	0.00	0.00%	\$20,000.00	0.77%
Expl Charge - Piling			\$20,000.00	
Platform Removal Preparation	504.00	27.33%	\$428,400.00	16.43%
Decomm Platform			\$252,000.00	
Work Boat			\$176,400.00	
Mobilize Work Boat	4.30	0.23%	\$2,046.80	0.08%
Work Boat			\$1,505.00	
NMFS Observers (2)			\$541.80	
NMFS Marine Observation	12.00	0.65%	\$5,712.00	0.22%
Work Boat			\$4,200.00	
NMFS Observers (2)			\$1,512.00	
Demob Work Boat	4.30	0.23%	\$1,505.00	0.06%
Work Boat			\$1,505.00	
Mobilize DB 2000	5.08	0.28%	\$56,755.36	2.18%
Derrick Barge 2000			\$44,780.20	
Pipeline Survey			\$568.96	
Dive Serv - Basic			\$4,495.80	
Expl Technician			\$660.40	
Helicopter Trips			\$6,250.00	
Mobilize CB 240 & Tug	36.40	1.97%	\$32,200.00	1.23%
CB 240 & Tug			\$18,200.00	
Rig Up CB 240			\$14,000.00	
Mobilize CB 180 & Tug	18.20	0.99%	\$14,734.00	0.56%
CB 180 & Tug			\$6,734.00	
Rig Up CB 180			\$8,000.00	
Mobilize CB 240 & Tug	36.40	1.97%	\$32,200.00	1.23%
CB 240 & Tug			\$18,200.00	
Rig Up CB 240			\$14,000.00	



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Platform Decommission Cost Breakdown
HI A264 HIOS-A-LIQ (Ver 1)

Task	Task Hours		Task Cost	
Setup Derrick Barge	6.75	0.37%	\$67,959.00	2.61%
Derrick Barge 2000			\$59,501.25	
Dive Serv - Basic			\$5,973.75	
Pipeline Survey			\$756.00	
Expl Technician			\$877.50	
NMFS Observers (2)			\$850.50	
Cut Deck/Equip/Misc	3.85	0.21%	\$40,686.80	1.56%
Derrick Barge 2000			\$33,937.75	
Dive Serv - Basic			\$3,407.25	
Pipeline Survey			\$431.20	
Expl Technician			\$500.50	
NMFS Observers (2)			\$485.10	
CB 240 & Tug			\$1,925.00	
Remove Equipment	8.00	0.43%	\$84,544.00	3.24%
Derrick Barge 2000			\$70,520.00	
Dive Serv - Basic			\$7,080.00	
Pipeline Survey			\$896.00	
Expl Technician			\$1,040.00	
NMFS Observers (2)			\$1,008.00	
CB 240 & Tug			\$4,000.00	
Remove 8 Pile Deck	9.35	0.51%	\$98,810.80	3.79%
Derrick Barge 2000			\$82,420.25	
Dive Serv - Basic			\$8,274.75	
Pipeline Survey			\$1,047.20	
Expl Technician			\$1,215.50	
NMFS Observers (2)			\$1,178.10	
CB 240 & Tug			\$4,675.00	
Demob CB 240 & Tug	36.40	1.97%	\$18,200.00	0.70%
CB 240 & Tug			\$18,200.00	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A264 HIOS-A-LIQ (Ver 1)

Task	Task Hours		Task Cost	
Jet/Airlift Pile Mud Plug	31.00	1.68%	\$323,578.00	12.41%
Derrick Barge 2000			\$273,265.00	
Dive Serv - Basic			\$27,435.00	
Pipeline Survey			\$3,472.00	
Expl Technician			\$4,030.00	
NMFS Observers (2)			\$3,906.00	
CB 180 & Tug			\$11,470.00	
Standby for Daylight Det.	8.00	0.43%	\$83,504.00	3.20%
Derrick Barge 2000			\$70,520.00	
Dive Serv - Basic			\$7,080.00	
Pipeline Survey			\$896.00	
Expl Technician			\$1,040.00	
NMFS Observers (2)			\$1,008.00	
CB 180 & Tug			\$2,960.00	
Pre/Post Detonat'n Survey	1.00	0.05%	\$16,688.00	0.64%
Derrick Barge 2000			\$8,815.00	
Dive Serv - Basic			\$885.00	
Pipeline Survey			\$112.00	
Expl Technician			\$130.00	
NMFS Observers (2)			\$126.00	
CB 180 & Tug			\$370.00	
Helicopter Trips			\$6,250.00	
Sever Piles- Explosive	4.84	0.26%	\$50,519.92	1.94%
Derrick Barge 2000			\$42,664.60	
Dive Serv - Basic			\$4,283.40	
Pipeline Survey			\$542.08	
Expl Technician			\$629.20	
NMFS Observers (2)			\$609.84	
CB 180 & Tug			\$1,790.80	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A264 HIOS-A-LIQ (Ver 1)

Task	Task Hours		Task Cost	
Remove Piles from Jackt Legs	18.78	1.02%	\$196,025.64	7.52%
Derrick Barge 2000			\$165,545.70	
Dive Serv - Basic			\$16,620.30	
Pipeline Survey			\$2,103.36	
Expl Technician			\$2,441.40	
NMFS Observers (2)			\$2,366.28	
CB 180 & Tug			\$6,948.60	
Demob CB 180 & Tug	18.20	0.99%	\$6,734.00	0.26%
CB 180 & Tug			\$6,734.00	
Remove Jacket - Meth 3	21.70	1.18%	\$226,591.42	8.69%
Derrick Barge 2000			\$191,285.52	
Dive Serv - Basic			\$19,204.50	
Pipeline Survey			\$2,430.40	
Expl Technician			\$2,821.00	
CB 240 & Tug			\$10,850.00	
Demob CB 240 & Tug	36.40	1.97%	\$18,200.00	0.70%
CB 240 & Tug			\$18,200.00	
Pick Up DB Anchors	6.75	0.37%	\$66,231.00	2.54%
Derrick Barge 2000			\$59,501.25	
Dive Serv - Basic			\$5,973.75	
Pipeline Survey			\$756.00	
Demob DB 2000	5.08	0.28%	\$56,094.96	2.15%
Derrick Barge 2000			\$44,780.20	
Dive Serv - Basic			\$4,495.80	
Pipeline Survey			\$568.96	
Helicopter Trips			\$6,250.00	



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
HI A264 HIOS-A-LIQ (Ver 1)

		Task Hours		Task Cost	
Task					
Site Clearance - with Trawler		71.07	3.85%	\$45,042.27	1.73%
	Trawler	\$11,442.27			
	Nets (Heavy Duty, Non-Repairable)	\$14,400.00			
	Nets (Heavy Duty, Repairable)	\$19,200.00			
Site Clearance Verify		106.14	5.75%	\$30,438.54	1.17%
	Trawler	\$17,088.54			
	Nets (Non-Repairable)	\$6,450.00			
	Nets (Repairable)	\$6,900.00			
Offload CB 180		48.00	2.60%	\$24,800.00	0.95%
	Cargo Barge 180	\$4,800.00			
	CB Damage Deduct	\$20,000.00			
Offload CB 240		720.00	39.04%	\$107,840.00	4.14%
	Cargo Barge 240	\$87,840.00			
	CB Damage Deduct	\$20,000.00			
Total		1781.99	96.62%	\$2,156,041.51	82.67%



Enterprise Products Partners L.P.

Pipeline Information

HI A264 HIOS-A-LIQ (Ver1) Segment#:0001

General Data

Water Depth:	152'
Origin / Terminus:	Origin
Opposite End Name:	HI A 264 B
Opposite End Water Depth:	152'
Pipeline Operator:	Enterprise Products Partners L.P.
Provision for Misc. Work%:	15.00%
Weather Contingency %:	6.00%

Pipeline Data

Outside Diameter:	36"	Wall Thickness:		Length:	300'
Depth of Burial:		# Crossings:		Product:	
Installation Date:		Weight Coating:	No	J Tube:	No
Riser?:	No	Riser Guard?:	No		

Comments



Enterprise Products Partners L.P.

Pipeline Information

HI A264 HIOS-A-LIQ (Ver1) Segment#:0002

General Data

Water Depth:	152'
Origin / Terminus:	Origin
Opposite End Name:	HI A 264 B
Opposite End Water Depth:	152'
Pipeline Operator:	Enterprise Products Partners L.P.
Provision for Misc. Work%:	15.00%
Weather Contingency %:	6.00%

Pipeline Data

Outside Diameter:	36"	Wall Thickness:		Length:	300'
Depth of Burial:		# Crossings:		Product:	
Installation Date:		Weight Coating:	No	J Tube:	No
Riser?:	No	Riser Guard?:	No		

Comments



Enterprise Products Partners L.P.

Pipeline Information

HI A264 HIOS-A-LIQ (Ver1) Segment#:4593

General Data

Water Depth:	152'
Origin / Terminus:	Origin
Opposite End Name:	HI A264 B
Opposite End Water Depth:	152'
Pipeline Operator:	Enterprise Products Partners L.P
Provision for Misc. Work%:	15.00%
Weather Contingency %:	6.00%

Pipeline Data

Outside Diameter:	36"	Wall Thickness:		Length:	16000'
Depth of Burial:		# Crossings:		Product:	Liquids
Installation Date:		Weight Coating:	No	J Tube:	No
Riser?:	No	Riser Guard?:	No		

Comments



Enterprise Products Partners L.P.

Pipeline Information

HI A264 HIOS-A-LIQ (Ver1) Segment#:7364

General Data

Water Depth:	152'
Origin / Terminus:	Origin
Opposite End Name:	WC 167
Opposite End Water Depth:	46'
Pipeline Operator:	Enterprise Products Partners L.P
Provision for Misc. Work%:	15.00%
Weather Contingency %:	6.00%

Pipeline Data

Outside Diameter:	42"	Wall Thickness:		Length:	348734'
Depth of Burial:		# Crossings:		Product:	Gas/Cond
Installation Date:		Weight Coating:	No	J Tube:	No
Riser?:	No	Riser Guard?:	No		

Comments



Enterprise Products Partners L.P.

Pipeline Decommission Task Information

HI A264 HIOS-A-LIQ (Ver 1) Segment#:0001

Task	Note	Contingency	Task Hours		Task Cost	
Rig Up Decomm Equipment		<input checked="" type="checkbox"/>	5.00	10.08%	\$2,854.17	0.68%
Pig & Flush Pipeline		<input checked="" type="checkbox"/>	4.00	8.06%	\$2,283.33	0.54%
Derig Decomm Equipment		<input checked="" type="checkbox"/>	2.00	4.03%	\$1,141.67	0.27%
Remove Pipeline	Accounted in segment 7364	<input checked="" type="checkbox"/>	30.00	60.47%	\$319,290.00	76.02%
Task Total			41.00	82.64%	\$325,569.17	77.52%
Misc. Work Provision (15.00%)			6.15	12.40%	\$48,835.38	11.63%
Weather Contingency (6.00%)			2.46	4.96%	\$19,534.15	4.65%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%
Storage / Scrapping					\$0.00	0.00%
Reef Donation					\$0.00	0.00%
Cost of Engineering (8.00%)					\$26,045.53	6.20%
Total:			49.61	100.00%	\$419,984.23	100.00%



Enterprise Products Partners L.P.

Pipeline Decommission Task Information

HI A264 HIOS-A-LIQ (Ver 1) Segment#:0002

Task	Note	Contingency	Task Hours		Task Cost	
Rig Up Decomm Equipment		<input checked="" type="checkbox"/>	5.00	10.08%	\$2,854.17	0.68%
Pig & Flush Pipeline		<input checked="" type="checkbox"/>	4.00	8.06%	\$2,283.33	0.54%
Derig Decomm Equipment		<input checked="" type="checkbox"/>	2.00	4.03%	\$1,141.67	0.27%
Remove Pipeline		<input checked="" type="checkbox"/>	30.00	60.47%	\$319,290.00	76.02%
Task Total			41.00	82.64%	\$325,569.17	77.52%
Misc. Work Provision (15.00%)			6.15	12.40%	\$48,835.38	11.63%
Weather Contingency (6.00%)			2.46	4.96%	\$19,534.15	4.65%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%
Storage / Scrapping					\$0.00	0.00%
Reef Donation					\$0.00	0.00%
Cost of Engineering (8.00%)					\$26,045.53	6.20%
Total:			49.61	100.00%	\$419,984.23	100.00%



Enterprise Products Partners L.P.

Pipeline Decommission Task Information

HI A264 HIOS-A-LIQ (Ver 1) Segment#:4593

Task	Note	Contingency	Task Hours		Task Cost	
Rig Up Decomm Equipment		<input checked="" type="checkbox"/>	5.00	4.42%	\$2,854.17	1.38%
Pig & Flush Pipeline		<input checked="" type="checkbox"/>	14.48	12.79%	\$8,265.67	3.99%
Derig Decomm Equipment		<input checked="" type="checkbox"/>	2.00	1.77%	\$1,141.67	0.55%
Mobilize Dive Boat	Accounted in segment 7364	<input type="checkbox"/>	0.00	0.00%	\$0.00	0.00%
Set Up Dive Boat		<input checked="" type="checkbox"/>	3.00	2.65%	\$5,719.50	2.76%
Expose Pipeline		<input checked="" type="checkbox"/>	4.76	4.21%	\$9,074.94	4.38%
Cut & Plug Pipeline		<input checked="" type="checkbox"/>	4.76	4.21%	\$9,074.94	4.38%
Cut Pipeline Riser		<input checked="" type="checkbox"/>	3.17	2.80%	\$6,043.61	2.92%
Remove Tube Turn		<input checked="" type="checkbox"/>	3.17	2.80%	\$6,043.61	2.92%
Bury Pipeline		<input checked="" type="checkbox"/>	3.17	2.80%	\$6,043.61	2.92%
Set Up Dive Boat		<input checked="" type="checkbox"/>	3.00	2.65%	\$5,719.50	2.76%
Expose Pipeline		<input checked="" type="checkbox"/>	4.76	4.21%	\$9,074.94	4.38%
Cut & Plug Pipeline		<input checked="" type="checkbox"/>	4.76	4.21%	\$9,074.94	4.38%
Cut Pipeline Riser		<input checked="" type="checkbox"/>	3.17	2.80%	\$6,043.61	2.92%
Remove Tube Turn		<input checked="" type="checkbox"/>	3.17	2.80%	\$6,043.61	2.92%
Bury Pipeline		<input checked="" type="checkbox"/>	3.17	2.80%	\$6,043.61	2.92%
Demob Dive Boat	Accounted in segment 7364	<input type="checkbox"/>	0.00	0.00%	\$0.00	0.00%
Remove Pipeline	Remove Tube Turns & 100' of pipeline at each end	<input checked="" type="checkbox"/>	28.00	24.74%	\$64,232.00	31.02%
Task Total			93.54	82.64%	\$160,493.93	77.52%
Misc. Work Provision (15.00%)			14.03	12.40%	\$24,074.09	11.63%
Weather Contingency (6.00%)			5.61	4.96%	\$9,629.64	4.65%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%
Storage / Scrapping					\$0.00	0.00%
Reef Donation					\$0.00	0.00%
Cost of Engineering (8.00%)					\$12,839.51	6.20%
Total:			113.18	100.00%	\$207,037.17	100.00%



Enterprise Products Partners L.P.
Pipeline Decommission Task Information
HI A264 HIOS-A-LIQ (Ver 1) Segment#:7364

Task	Note	Contingency	Task Hours		Task Cost	
Mobilize Work Boat	Shared with Segment No. 4593	<input checked="" type="checkbox"/>	17.20	2.58%	\$9,818.33	1.10%
Rig Up Decomm Equipment		<input checked="" type="checkbox"/>	5.00	0.75%	\$2,854.17	0.32%
Pig & Flush Pipeline		<input checked="" type="checkbox"/>	405.37	60.69%	\$231,398.71	25.92%
Derig Decomm Equipment		<input checked="" type="checkbox"/>	2.00	0.30%	\$1,141.67	0.13%
Demob Work Boat	Shared with Segment No. 4593	<input checked="" type="checkbox"/>	17.20	2.58%	\$9,818.33	1.10%
Mobilize Dive Boat	Shared with Segment No. 4593	<input type="checkbox"/>	17.20	2.58%	\$32,791.80	3.67%
Set Up Dive Boat		<input checked="" type="checkbox"/>	3.00	0.45%	\$5,719.50	0.64%
Expose Pipeline		<input checked="" type="checkbox"/>	4.76	0.71%	\$9,074.94	1.02%
Cut & Plug Pipeline		<input checked="" type="checkbox"/>	4.76	0.71%	\$9,074.94	1.02%
Cut Pipeline Riser		<input checked="" type="checkbox"/>	3.17	0.47%	\$6,043.61	0.68%
Remove Tube Turn		<input checked="" type="checkbox"/>	3.17	0.47%	\$6,043.61	0.68%
Expose Pipeline		<input checked="" type="checkbox"/>	4.76	0.71%		
Bury Pipeline		<input checked="" type="checkbox"/>	3.17	0.47%	\$6,043.61	0.68%
Set Up Dive Boat		<input checked="" type="checkbox"/>	3.00	0.45%	\$5,719.50	0.64%
Expose Pipeline		<input checked="" type="checkbox"/>	4.76	0.71%	\$9,074.94	1.02%
Cut & Plug Pipeline		<input checked="" type="checkbox"/>	4.76	0.71%	\$9,074.94	1.02%
Cut Pipeline Riser		<input checked="" type="checkbox"/>	3.17	0.47%	\$6,043.61	0.68%
Remove Tube Turn		<input checked="" type="checkbox"/>	3.17	0.47%	\$6,043.61	0.68%
Bury Pipeline		<input checked="" type="checkbox"/>	3.17	0.47%	\$6,043.61	0.68%
Demob Dive Boat	Shared with Segment No. 4593	<input type="checkbox"/>	17.20	2.58%	\$32,791.80	3.67%
Remove Pipeline	Remove Tube Turns & 100' of pipeline at each end	<input checked="" type="checkbox"/>	28.00	4.19%	\$298,004.00	33.39%
Task Total			557.99	83.54%	\$702,619.24	78.72%
Misc. Work Provision (15.00%)			78.54	11.76%	\$95,555.35	10.71%
Weather Contingency (6.00%)			31.42	4.70%	\$38,222.14	4.28%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%
Storage / Scrapping					\$0.00	0.00%
Reef Donation					\$0.00	0.00%
Cost of Engineering (8.00%)					\$56,209.54	6.30%
Total:			667.94	100.00%	\$892,606.26	100.00%



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.
Pipeline Decommission Resources Breakdown
HI A264 HIOS-A-LIQ (Ver 1) Segment#:0001

Resource Used	Unit Cost		Cost	
CB 240 & Tug	\$500.00	per Hour per Barge/Tug	\$15,000.00	3.57%
DB 2000	\$8,815.00	per Hour per Barge	\$264,450.00	62.97%
Decommissioning Crew	\$0.00	Calculated from tables	\$1,237.50	0.29%
Dive Serv - Basic	\$0.00	Calculated from tables	\$26,550.00	6.32%
Dive Serv - Suppl	\$0.00	Calculated from tables	\$13,290.00	3.16%
Work Boat	\$0.00	Calculated from tables	\$5,041.67	1.20%



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.
Pipeline Decommission Resources Breakdown
HI A264 HIOS-A-LIQ (Ver 1) Segment#:0002

Resource Used	Unit Cost		Cost	
CB 240 & Tug	\$500.00	per Hour per Barge/Tug	\$15,000.00	3.57%
DB 2000	\$8,815.00	per Hour per Barge	\$264,450.00	62.97%
Decommissioning Crew	\$0.00	Calculated from tables	\$1,237.50	0.29%
Dive Serv - Basic	\$0.00	Calculated from tables	\$26,550.00	6.32%
Dive Serv - Suppl	\$0.00	Calculated from tables	\$13,290.00	3.16%
Work Boat	\$0.00	Calculated from tables	\$5,041.67	1.20%



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.
Pipeline Decommission Resources Breakdown
HI A264 HIOS-A-LIQ (Ver 1) Segment#:4593

Resource Used	Unit Cost		Cost	
CB 240 & Tug	\$500.00	per Hour per Barge/Tug	\$14,000.00	6.76%
Decommissioning Crew	\$0.00	Calculated from tables	\$7,373.28	3.56%
Dive Boat	\$0.00	Calculated from tables	\$33,579.96	16.22%
Dive Serv - Basic	\$0.00	Calculated from tables	\$63,773.10	30.80%
Dive Serv - Suppl	\$0.00	Calculated from tables	\$31,922.58	15.42%
Manual Calculation	\$0.00	Independently Calculated	\$0.00	0.00%
Work Boat	\$0.00	Calculated from tables	\$9,845.01	4.76%



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.
Pipeline Decommission Resources Breakdown
HI A264 HIOS-A-LIQ (Ver 1) Segment#:7364

Resource Used	Unit Cost		Cost	
CB 240 & Tug	\$500.00	per Hour per Barge/Tug	\$14,000.00	1.58%
DB 2000	\$8,815.00	per Hour per Barge	\$246,820.00	27.82%
Decommissioning Crew	\$0.00	Calculated from tables	\$59,088.40	6.66%
Dive Boat	\$0.00	Calculated from tables	\$36,562.36	4.12%
Dive Serv - Basic	\$0.00	Calculated from tables	\$94,217.10	10.62%
Dive Serv - Suppl	\$0.00	Calculated from tables	\$47,161.78	5.31%
Manual Calculation	\$0.00	Independently Calculated	\$0.00	0.00%
Work Boat	\$0.00	Calculated from tables	\$204,769.59	23.08%



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.

Pipeline Decommission Cost Breakdown

HI A264 HIOS-A-LIQ (Ver 1) Segment#:0001

Task		Task Hours	Task Cost
Rig Up Decomm Equipment		5.00 10.08%	\$2,854.17 0.68%
Work Boat	\$2,291.67		
Decommissioning Crew	\$562.50		
Pig & Flush Pipeline		4.00 8.06%	\$2,283.33 0.54%
Work Boat	\$1,833.33		
Decommissioning Crew	\$450.00		
Derig Decomm Equipment		2.00 4.03%	\$1,141.67 0.27%
Work Boat	\$916.67		
Decommissioning Crew	\$225.00		
Remove Pipeline		30.00 60.47%	\$319,290.00 76.02%
DB 2000	\$264,450.00		
Dive Serv - Basic	\$26,550.00		
Dive Serv - Suppl	\$13,290.00		
CB 240 & Tug	\$15,000.00		
Total		41.00 82.64%	\$325,569.17 77.52%



Enterprise Products Partners L.P.

Pipeline Decommission Cost Breakdown

HI A264 HIOS-A-LIQ (Ver 1) Segment#:0002

Task		Task Hours	Task Cost
Rig Up Decomm Equipment		5.00 10.08%	\$2,854.17 0.68%
Work Boat	\$2,291.67		
Decommissioning Crew	\$562.50		
Pig & Flush Pipeline		4.00 8.06%	\$2,283.33 0.54%
Work Boat	\$1,833.33		
Decommissioning Crew	\$450.00		
Derig Decomm Equipment		2.00 4.03%	\$1,141.67 0.27%
Work Boat	\$916.67		
Decommissioning Crew	\$225.00		
Remove Pipeline		30.00 60.47%	\$319,290.00 76.02%
DB 2000	\$264,450.00		
Dive Serv - Basic	\$26,550.00		
Dive Serv - Suppl	\$13,290.00		
CB 240 & Tug	\$15,000.00		
Total		41.00 82.64%	\$325,569.17 77.52%



Enterprise Products Partners L.P.

Pipeline Decommission Cost Breakdown

HI A264 HIOS-A-LIQ (Ver 1) Segment#:4593

Task		Task Hours		Task Cost	
Rig Up Decomm Equipment		5.00	4.42%	\$2,854.17	1.38%
Work Boat	\$2,291.67				
Decommissioning Crew	\$562.50				
Pig & Flush Pipeline		14.48	12.79%	\$8,265.67	3.99%
Work Boat	\$6,636.67				
Decommissioning Crew	\$1,629.00				
Derig Decomm Equipment		2.00	1.77%	\$1,141.67	0.55%
Work Boat	\$916.67				
Decommissioning Crew	\$225.00				
Mobilize Dive Boat		0.00	0.00%	\$0.00	0.00%
Dive Boat	\$0.00				
Dive Serv - Basic	\$0.00				
Dive Serv - Suppl	\$0.00				
Decommissioning Crew	\$0.00				
Set Up Dive Boat		3.00	2.65%	\$5,719.50	2.76%
Dive Boat	\$1,398.00				
Dive Serv - Basic	\$2,655.00				
Dive Serv - Suppl	\$1,329.00				
Decommissioning Crew	\$337.50				
Expose Pipeline		4.76	4.21%	\$9,074.94	4.38%
Dive Boat	\$2,218.16				
Dive Serv - Basic	\$4,212.60				
Dive Serv - Suppl	\$2,108.68				
Decommissioning Crew	\$535.50				
Cut & Plug Pipeline		4.76	4.21%	\$9,074.94	4.38%
Dive Boat	\$2,218.16				
Dive Serv - Basic	\$4,212.60				
Dive Serv - Suppl	\$2,108.68				
Decommissioning Crew	\$535.50				



Enterprise Products Partners L.P. Pipeline Decommission Cost Breakdown

Cut Pipeline Riser		3.17	2.80%	\$6,043.61	2.92%
Dive Boat	\$1,477.22				
Dive Serv - Basic	\$2,805.45				
Dive Serv - Suppl	\$1,404.31				
Decommissioning Crew	\$356.63				
Remove Tube Turn		3.17	2.80%	\$6,043.61	2.92%
Dive Boat	\$1,477.22				
Dive Serv - Basic	\$2,805.45				
Dive Serv - Suppl	\$1,404.31				
Decommissioning Crew	\$356.63				
Manual Calculation	\$0.00				
Bury Pipeline		3.17	2.80%	\$6,043.61	2.92%
Dive Boat	\$1,477.22				
Dive Serv - Basic	\$2,805.45				
Dive Serv - Suppl	\$1,404.31				
Decommissioning Crew	\$356.63				
Set Up Dive Boat		3.00	2.65%	\$5,719.50	2.76%
Dive Boat	\$1,398.00				
Dive Serv - Basic	\$2,655.00				
Dive Serv - Suppl	\$1,329.00				
Decommissioning Crew	\$337.50				
Expose Pipeline		4.76	4.21%	\$9,074.94	4.38%
Dive Boat	\$2,218.16				
Dive Serv - Basic	\$4,212.60				
Dive Serv - Suppl	\$2,108.68				
Decommissioning Crew	\$535.50				
Cut & Plug Pipeline		4.76	4.21%	\$9,074.94	4.38%
Dive Boat	\$2,218.16				
Dive Serv - Basic	\$4,212.60				
Dive Serv - Suppl	\$2,108.68				
Decommissioning Crew	\$535.50				



Enterprise Products Partners L.P. Pipeline Decommission Cost Breakdown

Cut Pipeline Riser		3.17	2.80%	\$6,043.61	2.92%
Dive Boat	\$1,477.22				
Dive Serv - Basic	\$2,805.45				
Dive Serv - Suppl	\$1,404.31				
Decommissioning Crew	\$356.63				
Remove Tube Turn		3.17	2.80%	\$6,043.61	2.92%
Dive Boat	\$1,477.22				
Dive Serv - Basic	\$2,805.45				
Dive Serv - Suppl	\$1,404.31				
Decommissioning Crew	\$356.63				
Bury Pipeline		3.17	2.80%	\$6,043.61	2.92%
Dive Boat	\$1,477.22				
Dive Serv - Basic	\$2,805.45				
Dive Serv - Suppl	\$1,404.31				
Decommissioning Crew	\$356.63				
Demob Dive Boat		0.00	0.00%	\$0.00	0.00%
Dive Boat	\$0.00				
Dive Serv - Basic	\$0.00				
Dive Serv - Suppl	\$0.00				
Decommissioning Crew	\$0.00				
Remove Pipeline		28.00	24.74%	\$64,232.00	31.02%
Dive Boat	\$13,048.00				
Dive Serv - Basic	\$24,780.00				
Dive Serv - Suppl	\$12,404.00				
CB 240 & Tug	\$14,000.00				
Total		93.54	82.64%	\$160,493.93	77.52%



Enterprise Products Partners L.P.

Pipeline Decommission Cost Breakdown

HI A264 HIOS-A-LIQ (Ver 1) Segment#:7364

Task		Task Hours		Task Cost	
Mobilize Work Boat		17.20	2.58%	\$9,818.33	1.11%
Work Boat	\$7,883.33				
Decommissioning Crew	\$1,935.00				
Rig Up Decomm Equipment		5.00	0.75%	\$2,854.17	0.32%
Work Boat	\$2,291.67				
Decommissioning Crew	\$562.50				
Pig & Flush Pipeline		405.37	60.69%	\$231,398.71	26.08%
Work Boat	\$185,794.59				
Decommissioning Crew	\$45,604.12				
Derig Decomm Equipment		2.00	0.30%	\$1,141.67	0.13%
Work Boat	\$916.67				
Decommissioning Crew	\$225.00				
Demob Work Boat		17.20	2.58%	\$9,818.33	1.11%
Work Boat	\$7,883.33				
Decommissioning Crew	\$1,935.00				
Mobilize Dive Boat		17.20	2.58%	\$32,791.80	3.70%
Dive Boat	\$8,015.20				
Dive Serv - Basic	\$15,222.00				
Dive Serv - Suppl	\$7,619.60				
Decommissioning Crew	\$1,935.00				
Set Up Dive Boat		3.00	0.45%	\$5,719.50	0.64%
Dive Boat	\$1,398.00				
Dive Serv - Basic	\$2,655.00				
Dive Serv - Suppl	\$1,329.00				
Decommissioning Crew	\$337.50				
Expose Pipeline		4.76	0.71%	\$9,074.94	1.02%
Dive Boat	\$2,218.16				
Dive Serv - Basic	\$4,212.60				
Dive Serv - Suppl	\$2,108.68				
Decommissioning Crew	\$535.50				



Enterprise Products Partners L.P. Pipeline Decommission Cost Breakdown

Cut & Plug Pipeline		4.76	0.71%	\$9,074.94	1.02%
Dive Boat	\$2,218.16				
Dive Serv - Basic	\$4,212.60				
Dive Serv - Suppl	\$2,108.68				
Decommissioning Crew	\$535.50				
Cut Pipeline Riser		3.17	0.47%	\$6,043.61	0.68%
Dive Boat	\$1,477.22				
Dive Serv - Basic	\$2,805.45				
Dive Serv - Suppl	\$1,404.31				
Decommissioning Crew	\$356.63				
Remove Tube Turn		3.17	0.47%	\$6,043.61	0.68%
Dive Boat	\$1,477.22				
Dive Serv - Basic	\$2,805.45				
Dive Serv - Suppl	\$1,404.31				
Decommissioning Crew	\$356.63				
Manual Calculation	\$0.00				
Bury Pipeline		3.17	0.47%	\$6,043.61	0.68%
Dive Boat	\$1,477.22				
Dive Serv - Basic	\$2,805.45				
Dive Serv - Suppl	\$1,404.31				
Decommissioning Crew	\$356.63				
Set Up Dive Boat		3.00	0.45%	\$5,719.50	0.64%
Dive Boat	\$1,398.00				
Dive Serv - Basic	\$2,655.00				
Dive Serv - Suppl	\$1,329.00				
Decommissioning Crew	\$337.50				
Expose Pipeline		4.76	0.71%	\$9,074.94	1.02%
Dive Boat	\$2,218.16				
Dive Serv - Basic	\$4,212.60				
Dive Serv - Suppl	\$2,108.68				
Decommissioning Crew	\$535.50				



Enterprise Products Partners L.P. Pipeline Decommission Cost Breakdown

Cut & Plug Pipeline		4.76	0.71%	\$9,074.94	1.02%
Dive Boat	\$2,218.16				
Dive Serv - Basic	\$4,212.60				
Dive Serv - Suppl	\$2,108.68				
Decommissioning Crew	\$535.50				
Cut Pipeline Riser		3.17	0.47%	\$6,043.61	0.68%
Dive Boat	\$1,477.22				
Dive Serv - Basic	\$2,805.45				
Dive Serv - Suppl	\$1,404.31				
Decommissioning Crew	\$356.63				
Remove Tube Turn		3.17	0.47%	\$6,043.61	0.68%
Dive Boat	\$1,477.22				
Dive Serv - Basic	\$2,805.45				
Dive Serv - Suppl	\$1,404.31				
Decommissioning Crew	\$356.63				
Bury Pipeline		3.17	0.47%	\$6,043.61	0.68%
Dive Boat	\$1,477.22				
Dive Serv - Basic	\$2,805.45				
Dive Serv - Suppl	\$1,404.31				
Decommissioning Crew	\$356.63				
Demob Dive Boat		17.20	2.58%	\$32,791.80	3.70%
Dive Boat	\$8,015.20				
Dive Serv - Basic	\$15,222.00				
Dive Serv - Suppl	\$7,619.60				
Decommissioning Crew	\$1,935.00				
Remove Pipeline		28.00	4.19%	\$298,004.00	33.58%
DB 2000	\$246,820.00				
Dive Serv - Basic	\$24,780.00				
Dive Serv - Suppl	\$12,404.00				
CB 240 & Tug	\$14,000.00				
Total		553.23	82.83%	\$702,619.24	79.18%

HI A264 HIOS-B Flare



Enterprise Products Partners L.P.

Platform Salvage Option

HI A264 HIOS-B Flare (Ver 1)

High Island Block A264 has five structures that are operated by Enterprise Products Partners L.P. The structures will be removed in one mobilization and demobilization of a 2000-ton derrick barge. All production equipment will be flushed and purged of any hydrocarbons. The equipment that will be removed by the derrick barge will be cut free of the platform.

Also the pipelines will be pigged, flushed, cleaned, plugged and left in-situ. (See #12 below.)

High Island A264 HIOS-B Flare is a bridge supported by two 3-pile structures installed in 1979 in 152' water depth and bridge connected to HI A264 HIOS-B-CMP structure. Since the structures are bridge connected, one 48-hour turtle watch operation conducted by the National Marine Fisheries service will be needed. The walkway will be placed on a 300' x 100' cargo barge. Piles will be explosively severed and the 300' x 100 cargo barge will also be used for the jacket. The decks, facilities and jackets will be taken to shore and scrapped. A 1,400 ft radius will be needed to clear the platform sites of any bottom debris.

This estimate is based on the following assumptions:

1. All decks and jackets and associated equipment are taken to shore and scrapped.
2. Removal Contractor is responsible for transport and disposal of decks, jackets, and associated equipment.
3. No salvage or resale value has been considered for the structure or equipment.
4. One derrick mobilization/demobilization cost is included for each block.
5. Mobilization times are estimated from the Eugene Island sea buoy.
6. No dockside mobilization or demobilization is included, construction barge spreads are assumed to be readily available in the Gulf of Mexico.
7. All work will be performed during the summer work season.
8. No allowances have been made for named tropical storm downtime.
9. The current guidelines for the use of explosives are assumed.
10. No allowances have been made for the presence of sea turtles or marine mammals.
11. All NORM, NOW, and industrial waste are removed from the platforms prior to decommissioning.
12. All pipelines are abandoned-in-place.
13. Tube Turns and 100' of pipeline are removed at each end of pipelines.
14. Tube Turns and pipelines are buried a minimum of 5ft. at the base of the platform.
15. All pipeline ends can be sealed using mechanical-type plugs. No provisions are made for more stringent environmental or safety regulations.
16. Site clearance and verification is in accordance with NTL 98-26.



Enterprise Products Partners L.P.

Platform Salvage Option

HI A264 HIOS-B Flare (Ver 1)

- 17. Hourly rates for construction and diving spreads are developed from offshore contractors published rates.
- 18. Engineering & Project Management cost 8% (company or other).
- 19. Work Contingency 15%
- 20. Weather Contingency 6%

The following data will be assumed based on previous estimates developed and work experience:

Pile OD
Deck Weights
Jacket Weights
Grout Weights
Equipment Weights

Estimated Decommissioning Gross Cost = \$1,773,751

Estimated Decommissioning Net Cost = \$1,773,751



Enterprise Products Partners L.P.

Basic Information

HI A264 HIOS-B Flare (Ver 1)

General Data

Platform: HI A264 HIOS-B Flare
Function: AUXILIARY
Type: Steel
Water Depth: 152'
Pre 461H?: Yes
Year Installed: 1979
Year Estimate Developed:
District: Gulf of Mexico
Lease Number:
Account Code: TSB - 26058
Amortization: 1.00
Wells to P & A: 0
Pipelines to Abandon: 0
Estimate Complete?: Yes

Partner Data

Partner	Working Interest
1 Enterprise Products Partners L.P.	100.00%

Estimated Costs

	Gross Cost	Net Cost
Platform Removal:	\$1,773,751	\$1,773,751
Well Plugging & Abandonment:	\$0	\$0
Pipeline Abandonment:	\$0	\$0
Total Decommissioning Cost:	\$1,773,751	\$1,773,751



Enterprise Products Partners L.P.

Platform Information

HI A264 HIOS-B Flare (Ver 1)

Pile/Tendon Data

	Number	Outside Diameter	Wall Thickness	Grout Annulus	Grout Internal	Depth Below Mudline
Main:	3	30"	1.5"	No	No	
Skirt/Braced	0			No	No	
Anchor:	0					
Dolphin:	0					

Deck Dimensions

	Dimensions	Elevation
Upper:		
Middle:		
Lower:		

Conductors

Number of Slots:	0
Number Installed:	0
Outside Diameter:	
Wall Thickness:	
Number Slanted:	0

Jacket Data

	Weight (Tons)	With Piles	With Piles & Grout
Submerged:			
Dry:	230.00		
Jacket Installation Date:			
Jacket Contractor:			

Deck Data

Deck Lift Weight with Equipment:	
Number of Padeyes Required:	0
Deck Installation Date:	
Deck Contractor:	



Enterprise Products Partners L.P.

Platform Information

HI A264 HIOS-B Flare (Ver 1)

Equipment Lift Weights

Equipment	Weight (Tons)
Flare Boom	12.00

Members to be Cut Data

Underwater Members

Size	Qty
------	-----

Cargo Descriptions

Cargo Barge Size	Cargo Description			
CB 300 x 100	Equipment	Jkt < 300T	Jkt < 300T	Bridge

Miscellaneous Data

Derrick Barge Anchors:	8
Assist Derrick Barge Anchors:	0
Tow Distance:	0.00
Provision for Misc. Work%:	15.00%
Weather Contingency%:	6.00%
Engineering%:	8.00%

Miscellaneous Costs

Consumables:	\$0.00
Waste Disposal:	\$0.00
Structure & Equipment Disposal:	\$0.00
Reef Donation:	\$0.00
Cost of Engineering:	\$114,312.80



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.

Platform Comments

HI A264 HIOS-B Flare (Ver 1)

Assumed the following:

Jacket Weights, Deck Weights, Pile Sizes, Equipment Weights



Enterprise Products Partners L.P.

Platform Decommission Task Information

HI A264 HIOS-B Flare (Ver 1)

Task	Note	Contingency	Task Hours		Task Cost	
Fab Explosive Charges		<input type="checkbox"/>	0.00	0.00%	\$15,000.00	0.85%
Platform Removal Preparation		<input type="checkbox"/>	48.00	3.41%	\$16,800.00	0.95%
Mobilize Work Boat	Divided between the HIOS platforms in the field.	<input type="checkbox"/>	4.30	0.31%	\$2,046.80	0.12%
NMFS Marine Observation	Divided between the HIOS platforms in the field.	<input type="checkbox"/>	12.00	0.85%	\$5,712.00	0.32%
Demob Work Boat	Divided between the HIOS platforms in the field.	<input type="checkbox"/>	4.30	0.31%	\$1,505.00	0.08%
Mobilize DB 2000	Divided between the HIOS platforms in the field.	<input type="checkbox"/>	5.07	0.36%	\$56,655.94	3.19%
Mobilize CB 300 & Tug		<input type="checkbox"/>	36.40	2.59%	\$46,032.00	2.60%
Setup Derrick Barge		<input checked="" type="checkbox"/>	6.75	0.48%	\$67,959.00	3.83%
Cut Deck/Equip/Misc		<input checked="" type="checkbox"/>	3.46	0.25%	\$37,880.08	2.14%
Remove Equipment	Flare Boom	<input checked="" type="checkbox"/>	0.50	0.04%	\$5,474.00	0.31%
Remove Tripod Deck	Bridge to Flare	<input checked="" type="checkbox"/>	3.00	0.21%	\$32,844.00	1.85%
Jet/Airlift Pile Mud Plug	Both 3-Pile Supports	<input checked="" type="checkbox"/>	6.00	0.43%	\$131,376.00	7.41%
Standby for Daylight Det.		<input checked="" type="checkbox"/>	8.00	0.57%	\$87,584.00	4.94%
Pre/Post Detonat'n Survey		<input checked="" type="checkbox"/>	1.00	0.07%	\$17,198.00	0.97%
Sever Piles- Explosive	Both 3-Pile Supports	<input checked="" type="checkbox"/>	2.44	0.17%	\$27,303.60	1.54%
Remove Jacket - Meth 3	Modified	<input checked="" type="checkbox"/>	21.70	1.54%	\$469,674.80	26.48%
Demob CB 300 & Tug		<input type="checkbox"/>	36.40	2.59%	\$32,032.00	1.81%
Pick Up DB Anchors		<input checked="" type="checkbox"/>	6.75	0.48%	\$67,108.50	3.78%
Demob DB 2000	Divided between the HIOS platforms in the field.	<input type="checkbox"/>	5.07	0.36%	\$56,655.94	3.19%
Site Clearance - with Trawler	Divided between the HIOS platforms in the field.	<input checked="" type="checkbox"/>	260.29	18.50%	\$75,506.69	4.26%
Site Clearance Verify	Divided between the HIOS platforms in the field.	<input checked="" type="checkbox"/>	400.57	28.46%	\$77,841.77	4.39%
Offload CB 300		<input type="checkbox"/>	384.00	27.29%	\$98,720.00	5.57%
Task Total			1256.00	89.25%	\$1,428,910.12	80.56%
Misc. Work Provision (15.00%)			108.07	7.68%	\$164,662.60	9.28%
Weather Contingency (6.00%)			43.23	3.07%	\$65,865.02	3.71%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%
Storage / Scrapping					\$0.00	0.00%
Reef Donation					\$0.00	0.00%
Cost of Engineering (8.00%)					\$114,312.80	6.44%
Total:			1407.30	100.00%	\$1,773,750.54	100.00%



Enterprise Products Partners L.P.

Platform Decommission Resources Breakdown

HI A264 HIOS-B Flare (Ver 1)

Resource Used	Unit Cost		Cost	
Cargo Barge 300	\$4,920.00	per Day per Barge	\$78,720.00	4.44%
CB 300 & Tug	\$880.00	per Hour per Barge/Tug	\$129,008.00	7.27%
CB Damage Deduct	\$20,000.00	per Cargo Barge	\$20,000.00	1.13%
Decomm Platform	\$0.00	Calculated from tables	\$0.00	0.00%
Derrick Barge 2000	\$8,815.00	per Hour per barge	\$858,933.60	48.42%
Dive Serv - Basic	\$0.00	Calculated from tables	\$86,234.40	4.86%
Expl Charge - Piling	\$0.00	per Inch of Outside Diam	\$15,000.00	0.85%
Expl Technician	\$130.00	per Hour	\$12,984.40	0.73%
Helicopter Trips	\$6,250.00	per Round Trip	\$18,750.00	1.06%
Nets (Heavy Duty, Non-Repairable)	\$4,800.00	ea	\$14,400.00	0.81%
Nets (Heavy Duty, Repairable)	\$2,400.00	ea	\$19,200.00	1.08%
Nets (Non-Repairable)	\$2,150.00	ea	\$6,450.00	0.36%
Nets (Repairable)	\$1,150.00	ea	\$6,900.00	0.39%
NMFS Observers (2)	\$126.00	per Hour	\$6,734.70	0.38%
Pipeline Survey	\$112.00	per Hour	\$11,186.56	0.63%
Rig Up CB 300	\$14,000.00	per Barge	\$14,000.00	0.79%
Trawler	\$161.00	per Hour	\$106,398.46	6.00%
Work Boat	\$350.00	per Hour	\$24,010.00	1.35%



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A264 HIOS-B Flare (Ver 1)

Task	Task Hours		Task Cost	
Fab Explosive Charges	0.00	0.00%	\$15,000.00	0.85%
Expl Charge - Piling			\$15,000.00	
Platform Removal Preparation	48.00	3.41%	\$16,800.00	0.95%
Decomm Platform			\$0.00	
Work Boat			\$16,800.00	
Mobilize Work Boat	4.30	0.31%	\$2,046.80	0.12%
Work Boat			\$1,505.00	
NMFS Observers (2)			\$541.80	
NMFS Marine Observation	12.00	0.85%	\$5,712.00	0.32%
Work Boat			\$4,200.00	
NMFS Observers (2)			\$1,512.00	
Demob Work Boat	4.30	0.31%	\$1,505.00	0.08%
Work Boat			\$1,505.00	
Mobilize DB 2000	5.07	0.36%	\$56,655.94	3.19%
Derrick Barge 2000			\$44,692.05	
Pipeline Survey			\$567.84	
Expl Technician			\$659.10	
Dive Serv - Basic			\$4,486.95	
Helicopter Trips			\$6,250.00	
Mobilize CB 300 & Tug	36.40	2.59%	\$46,032.00	2.60%
CB 300 & Tug			\$32,032.00	
Rig Up CB 300			\$14,000.00	
Setup Derrick Barge	6.75	0.48%	\$67,959.00	3.83%
Derrick Barge 2000			\$59,501.25	
Dive Serv - Basic			\$5,973.75	
Pipeline Survey			\$756.00	
NMFS Observers (2)			\$850.50	
Expl Technician			\$877.50	



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
HI A264 HIOS-B Flare (Ver 1)

		Task Hours		Task Cost	
Task					
Cut Deck/Equip/Misc		3.46	0.25%	\$37,880.08	2.14%
CB 300 & Tug	\$3,044.80				
Derrick Barge 2000	\$30,499.90				
Dive Serv - Basic	\$3,062.10				
Expl Technician	\$449.80				
Pipeline Survey	\$387.52				
NMFS Observers (2)	\$435.96				
Remove Equipment		0.50	0.04%	\$5,474.00	0.31%
CB 300 & Tug	\$440.00				
Derrick Barge 2000	\$4,407.50				
Dive Serv - Basic	\$442.50				
Pipeline Survey	\$56.00				
NMFS Observers (2)	\$63.00				
Expl Technician	\$65.00				
Remove Tripod Deck		3.00	0.21%	\$32,844.00	1.85%
CB 300 & Tug	\$2,640.00				
Derrick Barge 2000	\$26,445.00				
Dive Serv - Basic	\$2,655.00				
Expl Technician	\$390.00				
Pipeline Survey	\$336.00				
NMFS Observers (2)	\$378.00				
Jet/Airlift Pile Mud Plug		6.00	0.43%	\$131,376.00	7.41%
CB 300 & Tug	\$10,560.00				
Derrick Barge 2000	\$105,780.00				
Dive Serv - Basic	\$10,620.00				
Expl Technician	\$1,560.00				
Pipeline Survey	\$1,344.00				
NMFS Observers (2)	\$1,512.00				



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
HI A264 HIOS-B Flare (Ver 1)

Task	Task Hours		Task Cost	
Standby for Daylight Det.	8.00	0.57%	\$87,584.00	4.94%
Derrick Barge 2000			\$70,520.00	
CB 300 & Tug			\$7,040.00	
Expl Technician			\$1,040.00	
NMFS Observers (2)			\$1,008.00	
Pipeline Survey			\$896.00	
Dive Serv - Basic			\$7,080.00	
Pre/Post Detonat'n Survey	1.00	0.07%	\$17,198.00	0.97%
CB 300 & Tug			\$880.00	
Derrick Barge 2000			\$8,815.00	
Dive Serv - Basic			\$885.00	
Expl Technician			\$130.00	
Pipeline Survey			\$112.00	
Helicopter Trips			\$6,250.00	
NMFS Observers (2)			\$126.00	
Sever Piles- Explosive	2.44	0.17%	\$27,303.60	1.54%
CB 300 & Tug			\$2,147.20	
Derrick Barge 2000			\$21,508.60	
Dive Serv - Basic			\$2,159.40	
Expl Technician			\$634.40	
Pipeline Survey			\$546.56	
NMFS Observers (2)			\$307.44	
Remove Jacket - Meth 3	21.70	1.54%	\$469,674.80	26.48%
CB 300 & Tug			\$38,192.00	
Derrick Barge 2000			\$382,571.00	
Dive Serv - Basic			\$38,409.00	
Pipeline Survey			\$4,860.80	
Expl Technician			\$5,642.00	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A264 HIOS-B Flare (Ver 1)

Task	Task Hours		Task Cost	
Demob CB 300 & Tug	36.40	2.59%	\$32,032.00	1.81%
CB 300 & Tug			\$32,032.00	
Pick Up DB Anchors	6.75	0.48%	\$67,108.50	3.78%
Derrick Barge 2000			\$59,501.25	
Dive Serv - Basic			\$5,973.75	
Pipeline Survey			\$756.00	
Expl Technician			\$877.50	
Demob DB 2000	5.07	0.36%	\$56,655.94	3.19%
Derrick Barge 2000			\$44,692.05	
Pipeline Survey			\$567.84	
Dive Serv - Basic			\$4,486.95	
Expl Technician			\$659.10	
Helicopter Trips			\$6,250.00	
Site Clearance - with Trawler	260.29	18.50%	\$75,506.69	4.26%
Trawler			\$41,906.69	
Nets (Heavy Duty, Non-Repairable)			\$14,400.00	
Nets (Heavy Duty, Repairable)			\$19,200.00	
Site Clearance Verify	400.57	28.46%	\$77,841.77	4.39%
Trawler			\$64,491.77	
Nets (Non-Repairable)			\$6,450.00	
Nets (Repairable)			\$6,900.00	
Offload CB 300	384.00	27.29%	\$98,720.00	5.57%
Cargo Barge 300			\$78,720.00	
CB Damage Deduct			\$20,000.00	
Total	1256.00	89.25%	\$1,428,910.12	80.56%

HI A264 HIOS-B-CMP



Enterprise Products Partners L.P.

Platform Salvage Option

HI A264 HIOS-B-CMP (Ver 1)

High Island Block A264 has five structures that are operated by Enterprise Products Partners L.P. The structures will be removed in one mobilization and demobilization of a 2000-ton derrick barge. All production equipment will be flushed and purged of any hydrocarbons. The equipment that will be removed by the derrick barge will be cut free of the platform.

Also the pipelines will be pigged, flushed, cleaned, plugged and left in-situ. (See #12 below.)

High Island A264 HIOS-B-CMP is a 10-pile Compressor Platform installed in 1979 in 152' water depth and bridge connected to the HI A264 HIOS-C-QTR platform and to the HI A264-B Flare structure. Since the platforms are bridge connected, one 48-hour turtle watch operation conducted by the National Marine Fisheries service will be needed. The top deck equipment, bridge and deck will be placed on a 240' x 72' cargo barge. The piles will be explosively severed, removed from the jacket and placed onto a 180' x 54' cargo barge. The jacket will be cut vertically underwater into two pieces. The first jacket section (4-pile) will be placed on a 240' x 72' cargo barge. The second jacket section (6-pile) will be placed on a separate 300' x 100' cargo barge. The decks, facilities and jacket will be taken to shore and scrapped. A 1,400 ft radius will be needed to clear the platform sites of any bottom debris.

This estimate is based on the following assumptions:

1. All decks and jackets and associated equipment are taken to shore and scrapped.
2. Removal Contractor is responsible for transport and disposal of decks, jackets, and associated equipment.
3. No salvage or resale value has been considered for the structure or equipment.
4. One derrick mobilization/demobilization cost is included for each block.
5. Mobilization times are estimated from the Eugene Island sea buoy.
6. No dockside mobilization or demobilization is included, construction barge spreads are assumed to be readily available in the Gulf of Mexico.
7. All work will be performed during the summer work season.
8. No allowances have been made for named tropical storm downtime.
9. The current guidelines for the use of explosives are assumed.
10. No allowances have been made for the presence of sea turtles or marine mammals.
11. All NORM, NOW, and industrial waste are removed from the platforms prior to decommissioning.
12. All pipelines are abandoned-in-place.
13. Tube Turns and 100' of pipeline are removed at each end of pipelines.
14. Tube Turns and pipelines are buried a minimum of 5ft. at the base of the platform.



Enterprise Products Partners L.P.

Platform Salvage Option

HI A264 HIOS-B-CMP (Ver 1)

- 15. All pipeline ends can be sealed using mechanical-type plugs. No provisions are made for more stringent environmental or safety regulations.
- 16. Site clearance and verification is in accordance with NTL 98-26.
- 17. Hourly rates for construction and diving spreads are developed from offshore contractors published rates.
- 18. Engineering & Project Management cost 8% (company or other).
- 19. Work Contingency 15%
- 20. Weather Contingency 6%

The following data will be assumed based on previous estimates developed and work experience:

Pile OD
Deck Weights
Jacket Weights
Grout Weights
Equipment Weights

Estimated Decommissioning Gross Cost = \$4,111,372

Estimated Decommissioning Net Cost = \$4,111,372



Enterprise Products Partners L.P.

Basic Information

HI A264 HIOS-B-CMP (Ver 1)

General Data

Platform:	HI A264 HIOS-B-CMP
Function:	COMPRESSOR
Type:	Steel
Water Depth:	152'
Pre 461H?:	Yes
Year Installed:	1979
Year Estimate Developed:	
District:	Gulf of Mexico
Lease Number:	
Account Code:	TSB - 26058
Amortization:	1.00
# Wells to P & A:	0
# Pipelines to Abandon:	0
Estimate Complete?:	Yes

Partner Data

Partner	Working Interest
1 Enterprise Products Partners L.P.	100.00%

Estimated Costs

	Gross Cost	Net Cost
Platform Removal:	\$4,111,372	\$4,111,372
Well Plugging & Abandonment:	\$0	\$0
Pipeline Abandonment:	\$0	\$0
Total Decommissioning Cost:	\$4,111,372	\$4,111,372



Enterprise Products Partners L.P.

Platform Information

HI A264 HIOS-B-CMP (Ver 1)

Pile/Tendon Data

	Number	Outside Diameter	Wall Thickness	Grout Annulus	Grout Internal	Depth Below Mudline
Main:	10	48"	1.5"	No	No	
Skirt/Braced	0			No	No	
Anchor:	0					
Dolphin:	0					

Deck Dimensions

	Dimensions	Elevation
Upper:	195X80	75
Middle:		
Lower:	99X214	53

Conductors

Number of Slots:	0
Number Installed:	0
Outside Diameter:	
Wall Thickness:	
Number Slanted:	0

Jacket Data

	Weight (Tons)	With Piles	With Piles & Grout
Submerged:			
Dry:	1518.00		
Jacket Installation Date:			
Jacket Contractor:			

Deck Data

Deck Lift Weight with Equipment:	1300 Tons
Number of Padeyes Required:	0
Deck Installation Date:	3/30/79
Deck Contractor:	



Enterprise Products Partners L.P.

Platform Information

HI A264 HIOS-B-CMP (Ver 1)

Equipment Lift Weights

Equipment	Weight (Tons)
Compressor	200.00
Heliport	30.00

Members to be Cut Data

Top Members		Underwater Members	
Size	Qty	Size	Qty
16.00	5.00	24.00	24.00

Cargo Descriptions

Cargo Barge Size	Cargo Description	
CB 240 x 72	Deck > 500T	Equipment
CB 180 x 54	Piles	
CB 240 x 72	Jkt > 700T	
CB 300 x 100	Jkt > 700T	

Miscellaneous Data

Derrick Barge Anchors:	8
Assist Derrick Barge Anchors:	0
Tow Distance:	0.00
Provision for Misc. Work%:	15.00%
Weather Contingency%:	6.00%
Engineering%:	8.00%

Miscellaneous Costs

Consumables:	\$0.00
Waste Disposal:	\$0.00
Structure & Equipment Disposal:	\$0.00
Reef Donation:	\$0.00
Cost of Engineering:	\$264,914.91



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.

Platform Comments

HI A264 HIOS-B-CMP (Ver 1)

Assumed the following:

Jacket Weights, Deck Weights, Pile Sizes, Equipment Weights, Deck(s) Sizes



Enterprise Products Partners L.P.

Platform Decommission Task Information

HI A264 HIOS-B-CMP (Ver 1)

Task	Note	Contingency	Task Hours		Task Cost	
Fab Explosive Charges		<input type="checkbox"/>	0.00	0.00%	\$85,000.00	2.07%
Platform Removal Preparation		<input type="checkbox"/>	168.00	8.35%	\$142,800.00	3.47%
Mobilize Work Boat	Divided between the HIOS platforms in the field.	<input type="checkbox"/>	4.30	0.21%	\$2,046.80	0.05%
NMFS Marine Observation	Divided between the HIOS platforms in the field.	<input type="checkbox"/>	12.00	0.60%	\$5,712.00	0.14%
Demob Work Boat	Divided between the HIOS platforms in the field.	<input type="checkbox"/>	4.30	0.21%	\$1,505.00	0.04%
Mobilize DB 2000	Divided between the HIOS platforms in the field.	<input type="checkbox"/>	5.07	0.25%	\$56,655.94	1.38%
Mobilize CB 180 & Tug	Piles (shared with A-LIQ)	<input type="checkbox"/>	18.20	0.90%	\$14,734.00	0.36%
Mobilize CB 240 & Tug	Deck, Equipment & Bridge	<input type="checkbox"/>	36.40	1.81%	\$32,200.00	0.78%
Mobilize CB 240 & Tug	Jacket (4-Pile Section)	<input type="checkbox"/>	36.40	1.81%	\$32,200.00	0.78%
Mobilize CB 300 & Tug	Jacket (6-Pile Section)	<input type="checkbox"/>	36.40	1.81%	\$46,032.00	1.12%
Setup Derrick Barge		<input checked="" type="checkbox"/>	6.75	0.34%	\$67,959.00	1.65%
Cut Deck/Equip/Misc		<input checked="" type="checkbox"/>	4.64	0.23%	\$49,035.52	1.19%
Remove Equipment		<input checked="" type="checkbox"/>	3.00	0.15%	\$31,704.00	0.77%
Remove 4 Pile Deck		<input checked="" type="checkbox"/>	9.35	0.46%	\$98,810.80	2.40%
Remove 6 Pile Deck		<input checked="" type="checkbox"/>	9.35	0.46%	\$98,810.80	2.40%
Demob CB 240 & Tug		<input type="checkbox"/>	36.40	1.81%	\$18,200.00	0.44%
Jet/Airlift Pile Mud Plug		<input checked="" type="checkbox"/>	38.50	1.91%	\$387,618.00	9.43%
Standby for Daylight Det.		<input checked="" type="checkbox"/>	8.00	0.40%	\$80,544.00	1.96%
Pre/Post Detonat'n Survey		<input checked="" type="checkbox"/>	1.00	0.05%	\$16,688.00	0.41%
Sever Piles- Explosive		<input checked="" type="checkbox"/>	5.80	0.29%	\$60,540.40	1.47%
Remove Piles from Jackt Legs		<input checked="" type="checkbox"/>	21.94	1.09%	\$229,009.71	5.57%
Demob CB 180 & Tug	Piles (shared with A-LIQ)	<input type="checkbox"/>	18.20	0.90%	\$6,734.00	0.16%
Cut Jacket		<input checked="" type="checkbox"/>	56.94	2.83%	\$587,165.27	14.28%
Install Closure Plates		<input checked="" type="checkbox"/>	11.00	0.55%	\$113,432.00	2.76%
Deballast Piles or Jkt Lg		<input checked="" type="checkbox"/>	12.50	0.62%	\$128,900.00	3.14%
Remove Jacket - Meth 3	4-Pile Jacket Section	<input checked="" type="checkbox"/>	21.70	1.08%	\$223,770.42	5.44%
Demob CB 240 & Tug		<input type="checkbox"/>	36.40	1.81%	\$18,200.00	0.44%
Remove Jacket - Meth 3	6-Pile Jacket Section	<input checked="" type="checkbox"/>	21.70	1.08%	\$232,016.42	5.64%
Demob CB 300 & Tug		<input type="checkbox"/>	36.40	1.81%	\$32,032.00	0.78%
Pick Up DB Anchors		<input checked="" type="checkbox"/>	6.75	0.34%	\$66,231.00	1.61%
Demob DB 2000	Divided between the HIOS platforms in the field.	<input type="checkbox"/>	5.07	0.25%	\$55,996.84	1.36%
Site Clearance - with Trawler	Divided between the HIOS platforms in the field.	<input checked="" type="checkbox"/>	71.07	3.53%	\$45,042.27	1.10%
Site Clearance Verify	Divided between the HIOS platforms in the field.	<input checked="" type="checkbox"/>	106.14	5.27%	\$30,438.54	0.74%
Offload CB 180	Piles (shared with A-LIQ)	<input type="checkbox"/>	48.00	2.38%	\$24,800.00	0.60%
Offload CB 240		<input type="checkbox"/>	696.00	34.57%	\$104,912.00	2.55%
Offload CB 300		<input type="checkbox"/>	312.00	15.50%	\$83,960.00	2.04%
Task Total			1925.67	95.66%	\$3,311,436.73	80.54%



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.
Platform Decommission Task Information
HI A264 HIOS-B-CMP (Ver 1)

Task	Note	Contingency	Task Hours		Task Cost	
		Misc. Work Provision (15.00%)	62.42	3.10%	\$382,157.40	9.30%
		Weather Contingency (6.00%)	24.97	1.24%	\$152,863.00	3.72%
		Consumables			\$0.00	0.00%
		Waste Disposal			\$0.00	0.00%
		Structure & Equipment Disposal			\$0.00	0.00%
		Offloading			\$0.00	0.00%
		Storage / Scrapping			\$0.00	0.00%
		Reef Donation			\$0.00	0.00%
		Cost of Engineering (8.00%)			\$264,914.90	6.44%
Total:			2013.06	100.00%	\$4,111,372.03	100.00%



Enterprise Products Partners L.P.

Platform Decommission Resources Breakdown

HI A264 HIOS-B-CMP (Ver 1)

Resource Used	Unit Cost		Cost	
Cargo Barge 180	\$2,400.00	per Day per Barge	\$4,800.00	0.12%
Cargo Barge 240	\$2,928.00	per Day per Barge	\$84,912.00	2.07%
Cargo Barge 300	\$4,920.00	per Day per Barge	\$63,960.00	1.56%
CB 180 & Tug	\$370.00	per Hour per Barge/Tug	\$24,101.80	0.59%
CB 240 & Tug	\$500.00	per Hour per Barge/Tug	\$137,040.00	3.33%
CB 300 & Tug	\$880.00	per Hour per Barge/Tug	\$83,160.00	2.02%
CB Damage Deduct	\$20,000.00	per Cargo Barge	\$60,000.00	1.46%
Decomm Platform	\$0.00	Calculated from tables	\$84,000.00	2.04%
Derrick Barge 2000	\$8,815.00	per Hour per barge	\$2,195,463.92	53.40%
Dive Serv - Basic	\$0.00	Calculated from tables	\$220,418.10	5.36%
Expl Charge - Piling	\$0.00	per Inch of Outside Diam	\$85,000.00	2.07%
Expl Technician	\$130.00	per Hour	\$14,742.00	0.36%
Helicopter Trips	\$6,250.00	per Round Trip	\$18,750.00	0.46%
Nets (Heavy Duty, Non-Repairable)	\$4,800.00	ea	\$14,400.00	0.35%
Nets (Heavy Duty, Repairable)	\$2,400.00	ea	\$19,200.00	0.47%
Nets (Non-Repairable)	\$2,150.00	ea	\$6,450.00	0.16%
Nets (Repairable)	\$1,150.00	ea	\$6,900.00	0.17%
NMFS Observers (2)	\$126.00	per Hour	\$15,703.38	0.38%
Pipeline Survey	\$112.00	per Hour	\$27,894.72	0.68%
Rig Up CB 180	\$8,000.00	per Barge	\$8,000.00	0.19%
Rig Up CB 240	\$14,000.00	per Barge	\$28,000.00	0.68%
Rig Up CB 300	\$14,000.00	per Barge	\$14,000.00	0.34%
Trawler	\$161.00	per Hour	\$28,530.81	0.69%
Work Boat	\$350.00	per Hour	\$66,010.00	1.61%



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A264 HIOS-B-CMP (Ver 1)

Task	Task Hours		Task Cost	
Fab Explosive Charges	0.00	0.00%	\$85,000.00	2.07%
Expl Charge - Piling			\$85,000.00	
Platform Removal Preparation	168.00	8.35%	\$142,800.00	3.47%
Decomm Platform			\$84,000.00	
Work Boat			\$58,800.00	
Mobilize Work Boat	4.30	0.21%	\$2,046.80	0.05%
Work Boat			\$1,505.00	
NMFS Observers (2)			\$541.80	
NMFS Marine Observation	12.00	0.60%	\$5,712.00	0.14%
Work Boat			\$4,200.00	
NMFS Observers (2)			\$1,512.00	
Demob Work Boat	4.30	0.21%	\$1,505.00	0.04%
Work Boat			\$1,505.00	
Mobilize DB 2000	5.07	0.25%	\$56,655.94	1.38%
Derrick Barge 2000			\$44,692.05	
Dive Serv - Basic			\$4,486.95	
Pipeline Survey			\$567.84	
Expl Technician			\$659.10	
Helicopter Trips			\$6,250.00	
Mobilize CB 180 & Tug	18.20	0.90%	\$14,734.00	0.36%
CB 180 & Tug			\$6,734.00	
Rig Up CB 180			\$8,000.00	
Mobilize CB 240 & Tug	36.40	1.81%	\$32,200.00	0.78%
CB 240 & Tug			\$18,200.00	
Rig Up CB 240			\$14,000.00	
Mobilize CB 240 & Tug	36.40	1.81%	\$32,200.00	0.78%
CB 240 & Tug			\$18,200.00	
Rig Up CB 240			\$14,000.00	



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
HI A264 HIOS-B-CMP (Ver 1)

Task	Task Hours		Task Cost	
Mobilize CB 300 & Tug	36.40	1.81%	\$46,032.00	1.12%
CB 300 & Tug			\$32,032.00	
Rig Up CB 300			\$14,000.00	
Setup Derrick Barge	6.75	0.34%	\$67,959.00	1.65%
Derrick Barge 2000			\$59,501.25	
Dive Serv - Basic			\$5,973.75	
Pipeline Survey			\$756.00	
Expl Technician			\$877.50	
NMFS Observers (2)			\$850.50	
Cut Deck/Equip/Misc	4.64	0.23%	\$49,035.52	1.19%
Derrick Barge 2000			\$40,901.60	
Dive Serv - Basic			\$4,106.40	
Pipeline Survey			\$519.68	
Expl Technician			\$603.20	
NMFS Observers (2)			\$584.64	
CB 240 & Tug			\$2,320.00	
Remove Equipment	3.00	0.15%	\$31,704.00	0.77%
Derrick Barge 2000			\$26,445.00	
Dive Serv - Basic			\$2,655.00	
Pipeline Survey			\$336.00	
Expl Technician			\$390.00	
NMFS Observers (2)			\$378.00	
CB 240 & Tug			\$1,500.00	



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
HI A264 HIOS-B-CMP (Ver 1)

		Task Hours		Task Cost	
Task					
Remove 4 Pile Deck		9.35	0.46%	\$98,810.80	2.40%
	Derrick Barge 2000			\$82,420.25	
	Dive Serv - Basic			\$8,274.75	
	Pipeline Survey			\$1,047.20	
	Expl Technician			\$1,215.50	
	NMFS Observers (2)			\$1,178.10	
	CB 240 & Tug			\$4,675.00	
Remove 6 Pile Deck		9.35	0.46%	\$98,810.80	2.40%
	Derrick Barge 2000			\$82,420.25	
	Dive Serv - Basic			\$8,274.75	
	Pipeline Survey			\$1,047.20	
	Expl Technician			\$1,215.50	
	NMFS Observers (2)			\$1,178.10	
	CB 240 & Tug			\$4,675.00	
Demob CB 240 & Tug		36.40	1.81%	\$18,200.00	0.44%
	CB 240 & Tug			\$18,200.00	
Jet/Airlift Pile Mud Plug		38.50	1.91%	\$387,618.00	9.43%
	Derrick Barge 2000			\$339,377.50	
	Dive Serv - Basic			\$34,072.50	
	Pipeline Survey			\$4,312.00	
	Expl Technician			\$5,005.00	
	NMFS Observers (2)			\$4,851.00	
Standby for Daylight Det.		8.00	0.40%	\$80,544.00	1.96%
	Derrick Barge 2000			\$70,520.00	
	Dive Serv - Basic			\$7,080.00	
	Pipeline Survey			\$896.00	
	Expl Technician			\$1,040.00	
	NMFS Observers (2)			\$1,008.00	



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
HI A264 HIOS-B-CMP (Ver 1)

Task	Task Hours		Task Cost	
Pre/Post Detonat'n Survey	1.00	0.05%	\$16,688.00	0.41%
Derrick Barge 2000			\$8,815.00	
Dive Serv - Basic			\$885.00	
Pipeline Survey			\$112.00	
Expl Technician			\$130.00	
NMFS Observers (2)			\$126.00	
CB 180 & Tug			\$370.00	
Helicopter Trips			\$6,250.00	
Sever Piles- Explosive	5.80	0.29%	\$60,540.40	1.47%
Derrick Barge 2000			\$51,127.00	
Dive Serv - Basic			\$5,133.00	
Pipeline Survey			\$649.60	
Expl Technician			\$754.00	
NMFS Observers (2)			\$730.80	
CB 180 & Tug			\$2,146.00	
Remove Piles from Jackt Legs	21.94	1.09%	\$229,009.71	5.57%
Derrick Barge 2000			\$193,401.09	
Dive Serv - Basic			\$19,416.90	
Pipeline Survey			\$2,457.28	
Expl Technician			\$2,852.20	
NMFS Observers (2)			\$2,764.44	
CB 180 & Tug			\$8,117.80	
Demob CB 180 & Tug	18.20	0.90%	\$6,734.00	0.16%
CB 180 & Tug			\$6,734.00	
Cut Jacket	56.94	2.83%	\$587,165.27	14.28%
Derrick Barge 2000			\$501,926.09	
Dive Serv - Basic			\$50,391.90	
Pipeline Survey			\$6,377.28	
CB 240 & Tug			\$28,470.00	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A264 HIOS-B-CMP (Ver 1)

Task	Task Hours		Task Cost	
Install Closure Plates	11.00	0.55%	\$113,432.00	2.76%
Derrick Barge 2000			\$96,965.00	
Dive Serv - Basic			\$9,735.00	
Pipeline Survey			\$1,232.00	
CB 240 & Tug			\$5,500.00	
Deballast Piles or Jkt Lg	12.50	0.62%	\$128,900.00	3.14%
Derrick Barge 2000			\$110,187.50	
Dive Serv - Basic			\$11,062.50	
Pipeline Survey			\$1,400.00	
CB 240 & Tug			\$6,250.00	
Remove Jacket - Meth 3	21.70	1.08%	\$223,770.42	5.44%
Derrick Barge 2000			\$191,285.52	
Dive Serv - Basic			\$19,204.50	
Pipeline Survey			\$2,430.40	
CB 240 & Tug			\$10,850.00	
Demob CB 240 & Tug	36.40	1.81%	\$18,200.00	0.44%
CB 240 & Tug			\$18,200.00	
Remove Jacket - Meth 3	21.70	1.08%	\$232,016.42	5.64%
Derrick Barge 2000			\$191,285.52	
Dive Serv - Basic			\$19,204.50	
Pipeline Survey			\$2,430.40	
CB 300 & Tug			\$19,096.00	
Demob CB 300 & Tug	36.40	1.81%	\$32,032.00	0.78%
CB 300 & Tug			\$32,032.00	
Pick Up DB Anchors	6.75	0.34%	\$66,231.00	1.61%
Derrick Barge 2000			\$59,501.25	
Dive Serv - Basic			\$5,973.75	
Pipeline Survey			\$756.00	



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
HI A264 HIOS-B-CMP (Ver 1)

Task	Task Hours		Task Cost	
Demob DB 2000	5.07	0.25%	\$55,996.84	1.36%
Derrick Barge 2000			\$44,692.05	
Dive Serv - Basic			\$4,486.95	
Pipeline Survey			\$567.84	
Helicopter Trips			\$6,250.00	
Site Clearance - with Trawler	71.07	3.53%	\$45,042.27	1.10%
Trawler			\$11,442.27	
Nets (Heavy Duty, Non-Repairable)			\$14,400.00	
Nets (Heavy Duty, Repairable)			\$19,200.00	
Site Clearance Verify	106.14	5.27%	\$30,438.54	0.74%
Trawler			\$17,088.54	
Nets (Non-Repairable)			\$6,450.00	
Nets (Repairable)			\$6,900.00	
Offload CB 180	48.00	2.38%	\$24,800.00	0.60%
Cargo Barge 180			\$4,800.00	
CB Damage Deduct			\$20,000.00	
Offload CB 240	696.00	34.57%	\$104,912.00	2.55%
Cargo Barge 240			\$84,912.00	
CB Damage Deduct			\$20,000.00	
Offload CB 300	312.00	15.50%	\$83,960.00	2.04%
Cargo Barge 300			\$63,960.00	
CB Damage Deduct			\$20,000.00	
Total	1925.67	95.66%	\$3,311,436.73	80.54%

HI A264 HIOS-C QTRS



Enterprise Products Partners L.P.

Platform Salvage Option

HI A264 HIOS-C QTRS (Ver 1)

High Island Block A264 has five structures that are operated by Enterprise Products Partners L.P. The structures will be removed in one mobilization and demobilization of a 2000-ton derrick barge. All production equipment will be flushed and purged of any hydrocarbons. The equipment that will be removed by the derrick barge will be cut free of the platform.

Also the pipelines will be pigged, flushed, cleaned, plugged and left in-situ. (See #12 below.)

High Island A264 HIOS-C QTRS is an 4-pile Quarters platform installed in 1979 in 152' water depth and bridge connected to the HI A264 HIOS-B Comp platform and HI A264-A-LIQ Platform. Since the A, B and C platforms are bridge connected, one 48-hour turtle watch operation conducted by the National Marine Fisheries service will be needed. The quarters, deck, bridge and jacket will be placed on a 240x 70' cargo barge. The piles will be explosively severed. The decks, facilities, piles and jacket sections will be taken to shore and scrapped. A 1,400 ft radius will be needed to clear the platform sites of any bottom debris.

This estimate is based on the following assumptions:

1. All decks and jackets and associated equipment are taken to shore and scrapped.
2. Removal Contractor is responsible for transport and disposal of decks, jackets, and associated equipment.
3. No salvage or resale value has been considered for the structure or equipment.
4. One derrick mobilization/demobilization cost is included for each block.
5. Mobilization times are estimated from the Eugene Island sea buoy.
6. No dockside mobilization or demobilization is included, construction barge spreads are assumed to be readily available in the Gulf of Mexico.
7. All work will be performed during the summer work season.
8. No allowances have been made for named tropical storm downtime.
9. The current guidelines for the use of explosives are assumed.
10. No allowances have been made for the presence of sea turtles or marine mammals.
11. All NORM, NOW, and industrial waste are removed from the platforms prior to decommissioning.
12. All pipelines are abandoned-in-place.
13. Tube Turns and 100' of pipeline are removed at each end of pipelines.
14. Tube Turns and pipelines are buried a minimum of 5ft. at the base of the platform.
15. All pipeline ends can be sealed using mechanical-type plugs. No provisions are made for more stringent environmental or safety regulations.
16. Site clearance and verification is in accordance with NTL 98-26.



Enterprise Products Partners L.P.

Platform Salvage Option

HI A264 HIOS-C QTRS (Ver 1)

- 17. Hourly rates for construction and diving spreads are developed from offshore contractors published rates.
- 18. Engineering & Project Management cost 8% (company or other).
- 19. Work Contingency 15%
- 20. Weather Contingency 6%

The following data will be assumed based on previous estimates developed and work experience:

Pile OD
Deck Weights
Jacket Weights
Grout Weights
Equipment Weights

Estimated Decommissioning Gross Cost = \$1,515,950

Estimated Decommissioning Net Cost = \$1,515,950



Enterprise Products Partners L.P.

Basic Information

HI A264 HIOS-C QTRS (Ver 1)

General Data

Platform:	HI A264 HIOS-C QTRS
Function:	QUARTERS
Type:	Steel
Water Depth:	152'
Pre 461H?:	Yes
Year Installed:	1979
Year Estimate Developed:	
District:	Gulf of Mexico
Lease Number:	
Account Code:	TSB - 26058
Amortization:	1.00
# Wells to P & A:	0
# Pipelines to Abandon:	0
Estimate Complete?:	Yes

Partner Data

Partner	Working Interest
1 Enterprise Products Partners L.P.	100.00%

Estimated Costs

	Gross Cost	Net Cost
Platform Removal:	\$1,515,950	\$1,515,950
Well Plugging & Abandonment:	\$0	\$0
Pipeline Abandonment:	\$0	\$0
Total Decommissioning Cost:	\$1,515,950	\$1,515,950



Enterprise Products Partners L.P.

Platform Information

HI A264 HIOS-C QTRS (Ver 1)

Pile/Tendon Data

	Number	Outside Diameter	Wall Thickness	Grout Annulus	Grout Internal	Depth Below Mudline
Main:	4	36"	1.5"	No	No	
Skirt/Braced	0			No	No	
Anchor:	0					
Dolphin:	0					

Deck Dimensions

	Dimensions	Elevation
Upper:	50X50	73
Middle:		
Lower:	40X40	53

Conductors

Number of Slots:	0
Number Installed:	0
Outside Diameter:	
Wall Thickness:	
Number Slanted:	0

Jacket Data

	Weight (Tons)	With Piles	With Piles & Grout
Submerged:			
Dry:	600.00		
Jacket Installation Date:			
Jacket Contractor:			

Deck Data

Deck Lift Weight with Equipment: 300 Tons
Number of Padeyes Required: 0
Deck Installation Date:
Deck Contractor:



Enterprise Products Partners L.P.

Platform Information

HI A264 HIOS-C QTRS (Ver 1)

Equipment Lift Weights

Equipment	Weight (Tons)
Heliport	30.00
Quarters Package	120.00

Members to be Cut Data

Underwater Members

Size	Qty
------	-----

Cargo Descriptions

Cargo Barge Size	Cargo Description			
CB 240 x 72	Deck 100-500T	Equipment	Bridge	Jkt 300-700T

Miscellaneous Data

Derrick Barge Anchors:	8
Assist Derrick Barge Anchors:	0
Tow Distance:	0.00
Provision for Misc. Work%:	15.00%
Weather Contingency%:	6.00%
Engineering%:	8.00%

Miscellaneous Costs

Consumables:	\$0.00
Waste Disposal:	\$0.00
Structure & Equipment Disposal:	\$0.00
Reef Donation:	\$0.00
Cost of Engineering:	\$98,200.00



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.

Platform Comments

HI A264 HIOS-C QTRS (Ver 1)

Assumed the following:

Jacket Weights, Deck Weights, Pile Sizes, Equipment Weights



Enterprise Products Partners L.P.

Platform Decommission Task Information

HI A264 HIOS-C QTRS (Ver 1)

Task	Note	Contingency	Task Hours		Task Cost	
Fab Explosive Charges		<input type="checkbox"/>	0.00	0.00%	\$10,000.00	0.66%
Platform Removal Preparation		<input type="checkbox"/>	96.00	9.94%	\$63,600.00	4.20%
Mobilize Work Boat	Divided between the HIOS platforms in the field.	<input type="checkbox"/>	4.30	0.45%	\$2,046.80	0.14%
NMFS Marine Observation	Divided between the HIOS platforms in the field.	<input type="checkbox"/>	12.00	1.24%	\$5,712.00	0.38%
Demob Work Boat	Divided between the HIOS platforms in the field.	<input type="checkbox"/>	4.30	0.45%	\$1,505.00	0.10%
Mobilize DB 2000	Divided between the HIOS platforms in the field.	<input type="checkbox"/>	5.07	0.52%	\$56,655.94	3.74%
Mobilize CB 240 & Tug		<input type="checkbox"/>	36.40	3.77%	\$32,200.00	2.12%
Setup Derrick Barge		<input checked="" type="checkbox"/>	6.75	0.70%	\$67,959.00	4.48%
Cut Deck/Equip/Misc		<input checked="" type="checkbox"/>	3.85	0.40%	\$40,686.80	2.68%
Remove Equipment		<input checked="" type="checkbox"/>	3.00	0.31%	\$31,704.00	2.09%
Remove 4 Pile Deck		<input checked="" type="checkbox"/>	9.35	0.97%	\$98,810.80	6.52%
Jet/Airlift Pile Mud Plug		<input checked="" type="checkbox"/>	16.00	1.66%	\$169,088.00	11.15%
Standby for Daylight Det.		<input checked="" type="checkbox"/>	8.00	0.83%	\$84,544.00	5.58%
Pre/Post Detonat'n Survey		<input checked="" type="checkbox"/>	1.00	0.10%	\$16,818.00	1.11%
Sever Piles- Explosive		<input checked="" type="checkbox"/>	2.92	0.30%	\$30,858.56	2.04%
Remove Jacket - Meth 3		<input checked="" type="checkbox"/>	21.70	2.25%	\$223,770.42	14.76%
Demob CB 240 & Tug		<input type="checkbox"/>	36.40	3.77%	\$18,200.00	1.20%
Pick Up DB Anchors		<input checked="" type="checkbox"/>	6.75	0.70%	\$66,231.00	4.37%
Demob DB 2000	Divided between the HIOS platforms in the field.	<input type="checkbox"/>	5.07	0.52%	\$55,996.84	3.69%
Site Clearance - with Trawler	Divided between the HIOS platforms in the field.	<input checked="" type="checkbox"/>	71.07	7.36%	\$45,042.27	2.97%
Site Clearance Verify	Divided between the HIOS platforms in the field.	<input checked="" type="checkbox"/>	106.14	10.99%	\$30,438.54	2.01%
Offload CB 240		<input type="checkbox"/>	456.00	47.21%	\$75,632.00	4.99%
Task Total			912.07	94.42%	\$1,227,499.97	80.97%
Misc. Work Provision (15.00%)			38.48	3.98%	\$135,892.70	8.96%
Weather Contingency (6.00%)			15.39	1.59%	\$54,357.08	3.59%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%
Storage / Scrapping					\$0.00	0.00%
Reef Donation					\$0.00	0.00%
Cost of Engineering (8.00%)					\$98,200.00	6.48%
Total:			965.94	100.00%	\$1,515,949.75	100.00%



Enterprise Products Partners L.P.
Platform Decommission Resources Breakdown
HI A264 HIOS-C QTRS (Ver 1)

Resource Used	Unit Cost		Cost	
Cargo Barge 240	\$2,928.00	per Day per Barge	\$55,632.00	3.67%
CB 240 & Tug	\$500.00	per Hour per Barge/Tug	\$69,310.00	4.57%
CB Damage Deduct	\$20,000.00	per Cargo Barge	\$20,000.00	1.32%
Decomm Platform	\$0.00	Calculated from tables	\$30,000.00	1.98%
Derrick Barge 2000	\$8,815.00	per Hour per barge	\$788,589.92	52.02%
Dive Serv - Basic	\$0.00	Calculated from tables	\$79,172.10	5.22%
Expl Charge - Piling	\$0.00	per Inch of Outside Diam	\$10,000.00	0.66%
Expl Technician	\$130.00	per Hour	\$7,272.20	0.48%
Helicopter Trips	\$6,250.00	per Round Trip	\$18,750.00	1.24%
Nets (Heavy Duty, Non-Repairable)	\$4,800.00	ea	\$14,400.00	0.95%
Nets (Heavy Duty, Repairable)	\$2,400.00	ea	\$19,200.00	1.27%
Nets (Non-Repairable)	\$2,150.00	ea	\$6,450.00	0.43%
Nets (Repairable)	\$1,150.00	ea	\$6,900.00	0.46%
NMFS Observers (2)	\$126.00	per Hour	\$8,463.42	0.56%
Pipeline Survey	\$112.00	per Hour	\$10,019.52	0.66%
Rig Up CB 240	\$14,000.00	per Barge	\$14,000.00	0.92%
Trawler	\$161.00	per Hour	\$28,530.81	1.88%
Work Boat	\$350.00	per Hour	\$40,810.00	2.69%



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A264 HIOS-C QTRS (Ver 1)

Task	Task Hours		Task Cost	
Fab Explosive Charges	0.00	0.00%	\$10,000.00	0.66%
Expl Charge - Piling			\$10,000.00	
Platform Removal Preparation	96.00	9.94%	\$63,600.00	4.20%
Decomm Platform			\$30,000.00	
Work Boat			\$33,600.00	
Mobilize Work Boat	4.30	0.45%	\$2,046.80	0.14%
Work Boat			\$1,505.00	
NMFS Observers (2)			\$541.80	
NMFS Marine Observation	12.00	1.24%	\$5,712.00	0.38%
Work Boat			\$4,200.00	
NMFS Observers (2)			\$1,512.00	
Demob Work Boat	4.30	0.45%	\$1,505.00	0.10%
Work Boat			\$1,505.00	
Mobilize DB 2000	5.07	0.52%	\$56,655.94	3.74%
Derrick Barge 2000			\$44,692.05	
Dive Serv - Basic			\$4,486.95	
Pipeline Survey			\$567.84	
Expl Technician			\$659.10	
Helicopter Trips			\$6,250.00	
Mobilize CB 240 & Tug	36.40	3.77%	\$32,200.00	2.12%
CB 240 & Tug			\$18,200.00	
Rig Up CB 240			\$14,000.00	
Setup Derrick Barge	6.75	0.70%	\$67,959.00	4.48%
Derrick Barge 2000			\$59,501.25	
Dive Serv - Basic			\$5,973.75	
Pipeline Survey			\$756.00	
Expl Technician			\$877.50	
NMFS Observers (2)			\$850.50	



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
HI A264 HIOS-C QTRS (Ver 1)

		Task Hours		Task Cost	
Task					
Cut Deck/Equip/Misc		3.85	0.40%	\$40,686.80	2.68%
	Derrick Barge 2000			\$33,937.75	
	Dive Serv - Basic			\$3,407.25	
	Pipeline Survey			\$431.20	
	Expl Technician			\$500.50	
	NMFS Observers (2)			\$485.10	
	CB 240 & Tug			\$1,925.00	
Remove Equipment		3.00	0.31%	\$31,704.00	2.09%
	Derrick Barge 2000			\$26,445.00	
	Dive Serv - Basic			\$2,655.00	
	Pipeline Survey			\$336.00	
	Expl Technician			\$390.00	
	NMFS Observers (2)			\$378.00	
	CB 240 & Tug			\$1,500.00	
Remove 4 Pile Deck		9.35	0.97%	\$98,810.80	6.52%
	Derrick Barge 2000			\$82,420.25	
	Dive Serv - Basic			\$8,274.75	
	Pipeline Survey			\$1,047.20	
	Expl Technician			\$1,215.50	
	NMFS Observers (2)			\$1,178.10	
	CB 240 & Tug			\$4,675.00	
Jet/Airlift Pile Mud Plug		16.00	1.66%	\$169,088.00	11.15%
	Derrick Barge 2000			\$141,040.00	
	Dive Serv - Basic			\$14,160.00	
	Pipeline Survey			\$1,792.00	
	Expl Technician			\$2,080.00	
	NMFS Observers (2)			\$2,016.00	
	CB 240 & Tug			\$8,000.00	



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
HI A264 HIOS-C QTRS (Ver 1)

		Task Hours		Task Cost	
Task					
Standby for Daylight Det.		8.00	0.83%	\$84,544.00	5.58%
	Derrick Barge 2000			\$70,520.00	
	Dive Serv - Basic			\$7,080.00	
	Pipeline Survey			\$896.00	
	Expl Technician			\$1,040.00	
	NMFS Observers (2)			\$1,008.00	
	CB 240 & Tug			\$4,000.00	
Pre/Post Detonat'n Survey		1.00	0.10%	\$16,818.00	1.11%
	Derrick Barge 2000			\$8,815.00	
	Dive Serv - Basic			\$885.00	
	Pipeline Survey			\$112.00	
	Expl Technician			\$130.00	
	NMFS Observers (2)			\$126.00	
	CB 240 & Tug			\$500.00	
	Helicopter Trips			\$6,250.00	
Sever Piles- Explosive		2.92	0.30%	\$30,858.56	2.04%
	Derrick Barge 2000			\$25,739.80	
	Dive Serv - Basic			\$2,584.20	
	Pipeline Survey			\$327.04	
	Expl Technician			\$379.60	
	NMFS Observers (2)			\$367.92	
	CB 240 & Tug			\$1,460.00	
Remove Jacket - Meth 3		21.70	2.25%	\$223,770.42	14.76%
	Derrick Barge 2000			\$191,285.52	
	Dive Serv - Basic			\$19,204.50	
	Pipeline Survey			\$2,430.40	
	CB 240 & Tug			\$10,850.00	
Demob CB 240 & Tug		36.40	3.77%	\$18,200.00	1.20%
	CB 240 & Tug			\$18,200.00	



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
HI A264 HIOS-C QTRS (Ver 1)

Task	Task Hours		Task Cost	
Pick Up DB Anchors	6.75	0.70%	\$66,231.00	4.37%
Derrick Barge 2000			\$59,501.25	
Dive Serv - Basic			\$5,973.75	
Pipeline Survey			\$756.00	
Demob DB 2000	5.07	0.52%	\$55,996.84	3.69%
Derrick Barge 2000			\$44,692.05	
Dive Serv - Basic			\$4,486.95	
Pipeline Survey			\$567.84	
Helicopter Trips			\$6,250.00	
Site Clearance - with Trawler	71.07	7.36%	\$45,042.27	2.97%
Trawler			\$11,442.27	
Nets (Heavy Duty, Non-Repairable)			\$14,400.00	
Nets (Heavy Duty, Repairable)			\$19,200.00	
Site Clearance Verify	106.14	10.99%	\$30,438.54	2.01%
Trawler			\$17,088.54	
Nets (Non-Repairable)			\$6,450.00	
Nets (Repairable)			\$6,900.00	
Offload CB 240	456.00	47.21%	\$75,632.00	4.99%
Cargo Barge 240			\$55,632.00	
CB Damage Deduct			\$20,000.00	
Total	912.07	94.42%	\$1,227,499.97	80.97%

HI A330 HIOS



Enterprise Products Partners L.P.

Platform Salvage Option

HI A330 HIOS (Ver 1)

High Island Block A330 has 1 structure that is operated by Enterprise Products Partners L.P. The structure will be removed in one mobilization and demobilization of a 2000-ton derrick barge. All production equipment will be flushed and purged of any hydrocarbons. The equipment that will be removed by the derrick barge will be cut free of the platform.

Also the pipelines will be pigged, flushed, cleaned, plugged and left in-situ. (See #12 below.)

High Island A330 HIOS is a 4-pile Manifold platform installed in 1979 in 255' water depth. A 48-hour turtle watch operation conducted by the National Marine Fisheries service will be needed. The deck equipment and deck will be placed on a 180' x 54' cargo barge. The piles will be explosively severed, removed from the jacket, cut in half and placed on a 180' x 54' cargo barge. The jacket will be placed on a 300' x 100' cargo barge. The deck, facilities, piles and jacket will be taken to shore and scrapped. A 1,320 ft radius will be needed to clear site of any bottom debris.

This estimate is based on the following assumptions:

1. All decks and jackets and associated equipment are taken to shore and scrapped.
2. Removal Contractor is responsible for transport and disposal of decks, jackets, and associated equipment.
3. No salvage or resale value has been considered for the structure or equipment.
4. One derrick mobilization/demobilization cost is included for each block.
5. Mobilization times are estimated from the Eugene Island sea buoy.
6. No dockside mobilization or demobilization is included, construction barge spreads are assumed to be readily available in the Gulf of Mexico.
7. All work will be performed during the summer work season.
8. No allowances have been made for named tropical storm downtime.
9. The current guidelines for the use of explosives are assumed.
10. No allowances have been made for the presence of sea turtles or marine mammals.
11. All NORM, NOW, and industrial waste are removed from the platforms prior to decommissioning.
12. All pipelines are abandoned-in-place.
13. Tube Turns and 100' of pipeline are removed at each end of pipelines.
14. Tube Turns and pipelines are buried a minimum of 5ft. at the base of the platform.
15. All pipeline ends can be sealed using mechanical-type plugs. No provisions are made for more stringent environmental or safety regulations.
16. Site clearance and verification is in accordance with NTL 98-26.
17. Hourly rates for construction and diving spreads are developed from offshore



Enterprise Products Partners L.P.

Platform Salvage Option

HI A330 HIOS (Ver 1)

contractors published rates.

18. Engineering & Project Management cost 8% (company or other).

19. Work Contingency 15%

20. Weather Contingency 6%

The following data will be assumed based on previous estimates developed and work experience:

Pile OD

Deck Weights

Jacket Weights

Grout Weights

Equipment Weights

Estimated Decommissioning Gross Cost = \$4,870,729

Estimated Decommissioning Net Cost = \$2,435,365



Enterprise Products Partners L.P.

Basic Information

HI A330 HIOS (Ver 1)

General Data

Platform:	HI A330 HIOS
Function:	DRILL/MANIFOLD
Type:	Steel
Water Depth:	255'
Pre 461H?:	Yes
Year Installed:	1979
Year Estimate Developed:	
District:	Gulf of Mexico
Lease Number:	
Account Code:	TSB - 26058
Amortization:	1.00
# Wells to P & A:	0
# Pipelines to Abandon:	1
Estimate Complete?:	Yes

Partner Data

Partner	Working Interest
1 Enterprise Products Partners L.P.	50.00%

Estimated Costs

	Gross Cost	Net Cost
Platform Removal:	\$3,557,150	\$1,778,575
Well Plugging & Abandonment:	\$0	\$0
Pipeline Abandonment:	\$1,313,579	\$656,790
Total Decommissioning Cost:	\$4,870,729	\$2,435,365



Enterprise Products Partners L.P.

Platform Information

HI A330 HIOS (Ver 1)

Pile/Tendon Data

	Number	Outside Diameter	Wall Thickness	Grout Annulus	Grout Internal	Depth Below Mudline
Main:	4	48"	1.5"	No	No	
Skirt/Braced	0			No	No	
Anchor:	0					
Dolphin:	0					

Deck Dimensions

	Dimensions	Elevation
Upper:	41X41	67
Middle:		
Lower:	70x70	48

Conductors

Number of Slots:	0
Number Installed:	0
Outside Diameter:	
Wall Thickness:	
Number Slanted:	0

Jacket Data

	Weight (Tons)	With Piles	With Piles & Grout
Submerged:			
Dry:	1100.00		
Jacket Installation Date:			
Jacket Contractor:			

Deck Data

Deck Lift Weight with Equipment:	300 Tons
Number of Padeyes Required:	0
Deck Installation Date:	3/3/79
Deck Contractor:	



Enterprise Products Partners L.P.

Platform Information

HI A330 HIOS (Ver 1)

Equipment Lift Weights

Equipment	Weight (Tons)
Equipment Package 1	150.00
Equipment Package 2	150.00
Heliport	30.00

Members to be Cut Data

Underwater Members

Size	Qty
------	-----

Cargo Descriptions

Cargo Barge Size	Cargo Description
CB 180 x 54	Deck 100-500T Equipment
CB 180 x 54	Piles
CB 300 x 100	Jkt > 700T

Miscellaneous Data

Derrick Barge Anchors:	8
Assist Derrick Barge Anchors:	0
Tow Distance:	15.00
Provision for Misc. Work%:	15.00%
Weather Contingency%:	6.00%
Engineering%:	8.00%

Miscellaneous Costs

Consumables:	\$0.00
Waste Disposal:	\$0.00
Structure & Equipment Disposal:	\$0.00
Reef Donation:	\$0.00
Cost of Engineering:	\$237,273.50



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.

Platform Comments

HI A330 HIOS (Ver 1)

Assumed the following:

Jacket Weights, Deck Weights, Pile Sizes, Equipment Weights



Enterprise Products Partners L.P.

Platform Decommission Task Information

HI A330 HIOS (Ver 1)

Task	Note	Contingency	Task Hours		Task Cost	
Fab Explosive Charges		<input type="checkbox"/>	0.00	0.00%	\$34,000.00	0.96%
Platform Removal Preparation		<input type="checkbox"/>	504.00	20.98%	\$428,400.00	12.04%
Mobilize Work Boat		<input type="checkbox"/>	17.10	0.71%	\$8,139.60	0.23%
NMFS Marine Observation		<input type="checkbox"/>	48.00	2.00%	\$22,848.00	0.64%
Demob Work Boat		<input type="checkbox"/>	17.10	0.71%	\$5,985.00	0.17%
Mobilize DB 2000		<input type="checkbox"/>	20.14	0.84%	\$252,401.08	7.10%
Mobilize CB 180 & Tug	Deck and Equipment	<input type="checkbox"/>	36.20	1.51%	\$21,394.00	0.60%
Mobilize CB 180 & Tug	Piles (Cut in half)	<input type="checkbox"/>	36.20	1.51%	\$27,394.00	0.77%
Mobilize CB 300 & Tug	Jacket	<input type="checkbox"/>	36.20	1.51%	\$45,856.00	1.29%
Setup Derrick Barge		<input checked="" type="checkbox"/>	6.75	0.28%	\$83,349.00	2.34%
Cut Deck/Equip/Misc		<input checked="" type="checkbox"/>	4.64	0.19%	\$59,011.52	1.66%
Remove Equipment		<input checked="" type="checkbox"/>	5.00	0.21%	\$63,590.00	1.79%
Remove 4 Pile Deck		<input checked="" type="checkbox"/>	9.35	0.39%	\$118,913.30	3.34%
Demob CB 180 & Tug		<input type="checkbox"/>	36.20	1.51%	\$13,394.00	0.38%
Jet/Airlift Pile Mud Plug		<input checked="" type="checkbox"/>	16.00	0.67%	\$203,488.00	5.72%
Standby for Daylight Det.		<input checked="" type="checkbox"/>	8.00	0.33%	\$101,744.00	2.86%
Pre/Post Detonat'n Survey		<input checked="" type="checkbox"/>	1.00	0.04%	\$18,968.00	0.53%
Sever Piles- Explosive		<input checked="" type="checkbox"/>	2.92	0.12%	\$37,136.56	1.04%
Remove Piles from Jackt Legs		<input checked="" type="checkbox"/>	27.06	1.13%	\$344,149.08	9.67%
Demob CB 180 & Tug		<input type="checkbox"/>	36.20	1.51%	\$13,394.00	0.38%
Install Closure Plates		<input checked="" type="checkbox"/>	5.00	0.21%	\$63,590.00	1.79%
Deballast Piles or Jkt Lg		<input checked="" type="checkbox"/>	5.00	0.21%	\$63,590.00	1.79%
Remove Jacket - Meth 3		<input checked="" type="checkbox"/>	21.70	0.90%	\$281,492.42	7.91%
Demob CB 300 & Tug		<input type="checkbox"/>	36.20	1.51%	\$31,856.00	0.90%
Pick Up DB Anchors		<input checked="" type="checkbox"/>	6.75	0.28%	\$81,621.00	2.29%
Demob DB 2000		<input type="checkbox"/>	20.14	0.84%	\$249,782.88	7.02%
Site Clearance - with Trawler		<input checked="" type="checkbox"/>	284.14	11.83%	\$79,346.54	2.23%
Site Clearance Verify		<input checked="" type="checkbox"/>	448.29	18.66%	\$85,524.69	2.40%
Offload CB 180		<input type="checkbox"/>	216.00	8.99%	\$41,600.00	1.17%
Offload CB 300		<input type="checkbox"/>	312.00	12.99%	\$83,960.00	2.36%
Task Total			2223.28	92.55%	\$2,965,918.66	83.38%
Misc. Work Provision (15.00%)			127.74	5.32%	\$252,827.10	7.11%
Weather Contingency (6.00%)			51.1	2.13%	\$101,130.80	2.84%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.
Platform Decommission Task Information
HI A330 HIOS (Ver 1)

Task	Note	Contingency	Task Hours	Task Cost
		Storage / Scrapping		\$0.00 0.00%
		Reef Donation		\$0.00 0.00%
		Cost of Engineering (8.00%)		\$237,273.50 6.67%
		Total:	2402.12 100.00%	\$3,557,150.06 100.00%



Enterprise Products Partners L.P.

Platform Decommission Resources Breakdown

HI A330 HIOS (Ver 1)

Resource Used	Unit Cost		Cost	
Cargo Barge 180	\$2,400.00	per Day per Barge	\$21,600.00	0.61%
Cargo Barge 300	\$4,920.00	per Day per Barge	\$63,960.00	1.80%
CB 180 & Tug	\$370.00	per Hour per Barge/Tug	\$84,644.90	2.38%
CB 300 & Tug	\$880.00	per Hour per Barge/Tug	\$82,808.00	2.33%
CB Damage Deduct	\$20,000.00	per Cargo Barge	\$40,000.00	1.12%
Decomm Platform	\$0.00	Calculated from tables	\$252,000.00	7.08%
Derrick Barge 2000	\$8,815.00	per Hour per barge	\$1,405,551.76	39.51%
Dive Serv - Basic	\$0.00	Calculated from tables	\$504,659.25	14.19%
Expl Charge - Piling	\$0.00	per Inch of Outside Diam	\$34,000.00	0.96%
Expl Technician	\$130.00	per Hour	\$14,411.80	0.41%
Helicopter Trips	\$6,250.00	per Round Trip	\$18,750.00	0.53%
Nets (Heavy Duty, Non-Repairable)	\$4,800.00	ea	\$14,400.00	0.40%
Nets (Heavy Duty, Repairable)	\$2,400.00	ea	\$19,200.00	0.54%
Nets (Non-Repairable)	\$2,150.00	ea	\$6,450.00	0.18%
Nets (Repairable)	\$1,150.00	ea	\$6,900.00	0.19%
NMFS Observers (2)	\$126.00	per Hour	\$19,633.32	0.55%
Pipeline Survey	\$112.00	per Hour	\$17,858.40	0.50%
Rig Up CB 180	\$8,000.00	per Barge	\$8,000.00	0.22%
Rig Up CB 240	\$14,000.00	per Barge	\$14,000.00	0.39%
Rig Up CB 300	\$14,000.00	per Barge	\$14,000.00	0.39%
Trawler	\$161.00	per Hour	\$117,921.23	3.32%
Work Boat	\$350.00	per Hour	\$205,170.00	5.77%



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A330 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Fab Explosive Charges	0.00	0.00%	\$34,000.00	0.96%
Expl Charge - Piling			\$34,000.00	
Platform Removal Preparation	504.00	20.98%	\$428,400.00	12.04%
Decomm Platform			\$252,000.00	
Work Boat			\$176,400.00	
Mobilize Work Boat	17.10	0.71%	\$8,139.60	0.23%
Work Boat			\$5,985.00	
NMFS Observers (2)			\$2,154.60	
NMFS Marine Observation	48.00	2.00%	\$22,848.00	0.64%
Work Boat			\$16,800.00	
NMFS Observers (2)			\$6,048.00	
Demob Work Boat	17.10	0.71%	\$5,985.00	0.17%
Work Boat			\$5,985.00	
Mobilize DB 2000	20.14	0.84%	\$252,401.08	7.10%
Derrick Barge 2000			\$177,534.09	
Dive Serv - Basic			\$63,743.10	
Pipeline Survey			\$2,255.68	
Expl Technician			\$2,618.20	
Helicopter Trips			\$6,250.00	
Mobilize CB 180 & Tug	36.20	1.51%	\$21,394.00	0.60%
CB 180 & Tug			\$13,394.00	
Rig Up CB 180			\$8,000.00	
Mobilize CB 180 & Tug	36.20	1.51%	\$27,394.00	0.77%
CB 180 & Tug			\$13,394.00	
Rig Up CB 240			\$14,000.00	
Mobilize CB 300 & Tug	36.20	1.51%	\$45,856.00	1.29%
CB 300 & Tug			\$31,856.00	
Rig Up CB 300			\$14,000.00	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A330 HIOS (Ver 1)

		Task Hours		Task Cost	
Task					
Setup Derrick Barge		6.75	0.28%	\$83,349.00	2.34%
	Derrick Barge 2000			\$59,501.25	
	Dive Serv - Basic			\$21,363.75	
	Pipeline Survey			\$756.00	
	Expl Technician			\$877.50	
	NMFS Observers (2)			\$850.50	
Cut Deck/Equip/Misc		4.64	0.19%	\$59,011.52	1.66%
	Derrick Barge 2000			\$40,901.60	
	Dive Serv - Basic			\$14,685.60	
	Pipeline Survey			\$519.68	
	Expl Technician			\$603.20	
	NMFS Observers (2)			\$584.64	
	CB 180 & Tug			\$1,716.80	
Remove Equipment		5.00	0.21%	\$63,590.00	1.79%
	Derrick Barge 2000			\$44,075.00	
	Dive Serv - Basic			\$15,825.00	
	Pipeline Survey			\$560.00	
	Expl Technician			\$650.00	
	NMFS Observers (2)			\$630.00	
	CB 180 & Tug			\$1,850.00	
Remove 4 Pile Deck		9.35	0.39%	\$118,913.30	3.34%
	Derrick Barge 2000			\$82,420.25	
	Dive Serv - Basic			\$29,592.75	
	Pipeline Survey			\$1,047.20	
	Expl Technician			\$1,215.50	
	NMFS Observers (2)			\$1,178.10	
	CB 180 & Tug			\$3,459.50	
Demob CB 180 & Tug		36.20	1.51%	\$13,394.00	0.38%
	CB 180 & Tug			\$13,394.00	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A330 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Jet/Airlift Pile Mud Plug	16.00	0.67%	\$203,488.00	5.72%
Derrick Barge 2000			\$141,040.00	
Dive Serv - Basic			\$50,640.00	
Pipeline Survey			\$1,792.00	
Expl Technician			\$2,080.00	
NMFS Observers (2)			\$2,016.00	
CB 180 & Tug			\$5,920.00	
Standby for Daylight Det.	8.00	0.33%	\$101,744.00	2.86%
Derrick Barge 2000			\$70,520.00	
Dive Serv - Basic			\$25,320.00	
Pipeline Survey			\$896.00	
Expl Technician			\$1,040.00	
NMFS Observers (2)			\$1,008.00	
CB 180 & Tug			\$2,960.00	
Pre/Post Detonat'n Survey	1.00	0.04%	\$18,968.00	0.53%
Derrick Barge 2000			\$8,815.00	
Dive Serv - Basic			\$3,165.00	
Pipeline Survey			\$112.00	
Expl Technician			\$130.00	
NMFS Observers (2)			\$126.00	
Helicopter Trips			\$6,250.00	
CB 180 & Tug			\$370.00	
Sever Piles- Explosive	2.92	0.12%	\$37,136.56	1.04%
Derrick Barge 2000			\$25,739.80	
Dive Serv - Basic			\$9,241.80	
Pipeline Survey			\$327.04	
Expl Technician			\$379.60	
NMFS Observers (2)			\$367.92	
CB 180 & Tug			\$1,080.40	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A330 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Remove Piles from Jackt Legs	27.06	1.13%	\$344,149.08	9.67%
Derrick Barge 2000			\$238,533.91	
Dive Serv - Basic			\$85,644.90	
Pipeline Survey			\$3,030.72	
Expl Technician			\$3,517.80	
NMFS Observers (2)			\$3,409.56	
CB 180 & Tug			\$10,012.20	
Demob CB 180 & Tug	36.20	1.51%	\$13,394.00	0.38%
CB 180 & Tug			\$13,394.00	
Install Closure Plates	5.00	0.21%	\$63,590.00	1.79%
Derrick Barge 2000			\$44,075.00	
Dive Serv - Basic			\$15,825.00	
Pipeline Survey			\$560.00	
Expl Technician			\$650.00	
NMFS Observers (2)			\$630.00	
CB 180 & Tug			\$1,850.00	
Deballast Piles or Jkt Lg	5.00	0.21%	\$63,590.00	1.79%
Derrick Barge 2000			\$44,075.00	
Dive Serv - Basic			\$15,825.00	
Pipeline Survey			\$560.00	
Expl Technician			\$650.00	
NMFS Observers (2)			\$630.00	
CB 180 & Tug			\$1,850.00	
Remove Jacket - Meth 3	21.70	0.90%	\$281,492.42	7.91%
Derrick Barge 2000			\$191,285.52	
Dive Serv - Basic			\$68,680.50	
Pipeline Survey			\$2,430.40	
CB 300 & Tug			\$19,096.00	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A330 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Demob CB 300 & Tug	36.20	1.51%	\$31,856.00	0.90%
CB 300 & Tug			\$31,856.00	
Pick Up DB Anchors	6.75	0.28%	\$81,621.00	2.29%
Derrick Barge 2000			\$59,501.25	
Dive Serv - Basic			\$21,363.75	
Pipeline Survey			\$756.00	
Demob DB 2000	20.14	0.84%	\$249,782.88	7.02%
Derrick Barge 2000			\$177,534.09	
Dive Serv - Basic			\$63,743.10	
Pipeline Survey			\$2,255.68	
Helicopter Trips			\$6,250.00	
Site Clearance - with Trawler	284.14	11.83%	\$79,346.54	2.23%
Trawler			\$45,746.54	
Nets (Heavy Duty, Non-Repairable)			\$14,400.00	
Nets (Heavy Duty, Repairable)			\$19,200.00	
Site Clearance Verify	448.29	18.66%	\$85,524.69	2.40%
Trawler			\$72,174.69	
Nets (Non-Repairable)			\$6,450.00	
Nets (Repairable)			\$6,900.00	
Offload CB 180	216.00	8.99%	\$41,600.00	1.17%
Cargo Barge 180			\$21,600.00	
CB Damage Deduct			\$20,000.00	
Offload CB 300	312.00	12.99%	\$83,960.00	2.36%
Cargo Barge 300			\$63,960.00	
CB Damage Deduct			\$20,000.00	
Total	2223.28	92.55%	\$2,965,918.66	83.38%



Enterprise Products Partners L.P.

Pipeline Information

HI A330 HIOS (Ver1) Segment#:4087

General Data

Water Depth:	255'
Origin / Terminus:	Origin
Opposite End Name:	HIA 343 H
Opposite End Water Depth:	235'
Pipeline Operator:	Enterprise Products Partners L.P
Provision for Misc. Work%:	15.00%
Weather Contingency %:	6.00%

Pipeline Data

Outside Diameter:	30"	Wall Thickness:		Length:	77513'
Depth of Burial:		# Crossings:		Product:	Gas/Cond
Installation Date:		Weight Coating:	No	J Tube:	No
Riser?:	No	Riser Guard?:	No		

Comments



Enterprise Products Partners L.P.

Pipeline Decommission Task Information

HI A330 HIOS (Ver 1) Segment#:4087

Task	Note	Contingency	Task Hours		Task Cost	
Mobilize Work Boat		<input checked="" type="checkbox"/>	17.10	6.24%	\$9,761.25	0.74%
Rig Up Decomm Equipment		<input checked="" type="checkbox"/>	5.00	1.82%	\$2,854.17	0.22%
Pig & Flush Pipeline		<input checked="" type="checkbox"/>	50.19	18.32%	\$28,650.12	2.18%
Derig Decomm Equipment		<input checked="" type="checkbox"/>	2.00	0.73%	\$1,141.67	0.09%
Demob Work Boat		<input checked="" type="checkbox"/>	17.10	6.24%	\$9,761.25	0.74%
Mobilize Dive Boat		<input type="checkbox"/>	17.10	6.24%	\$91,083.15	6.93%
Set Up Dive Boat		<input checked="" type="checkbox"/>	3.00	1.09%	\$15,979.50	1.22%
Expose Pipeline		<input checked="" type="checkbox"/>	9.10	3.32%	\$48,471.15	3.69%
Cut & Plug Pipeline		<input checked="" type="checkbox"/>	9.10	3.32%	\$48,471.15	3.69%
Cut Pipeline Riser		<input checked="" type="checkbox"/>	6.07	2.22%	\$32,331.86	2.46%
Remove Tube Turn		<input checked="" type="checkbox"/>	6.07	2.22%	\$32,331.86	2.46%
Bury Pipeline		<input checked="" type="checkbox"/>	6.07	2.22%	\$32,331.86	2.46%
Set Up Dive Boat		<input checked="" type="checkbox"/>	3.00	1.09%	\$15,979.50	1.22%
Expose Pipeline		<input checked="" type="checkbox"/>	9.10	3.32%	\$48,471.15	3.69%
Cut & Plug Pipeline		<input checked="" type="checkbox"/>	9.10	3.32%	\$48,471.15	3.69%
Cut Pipeline Riser		<input checked="" type="checkbox"/>	6.07	2.22%	\$32,331.86	2.46%
Remove Tube Turn		<input checked="" type="checkbox"/>	6.07	2.22%	\$32,331.86	2.46%
Bury Pipeline		<input checked="" type="checkbox"/>	6.07	2.22%	\$32,331.86	2.46%
Demob Dive Boat		<input type="checkbox"/>	17.10	6.24%	\$91,083.15	6.93%
Remove Pipeline	Remove Tube Turns & 100' of pipeline at each end	<input checked="" type="checkbox"/>	28.00	10.22%	\$393,764.00	29.98%
Task Total			232.41	84.81%	\$1,047,933.52	79.78%
Misc. Work Provision (15.00%)			29.73	10.85%	\$129,865.09	9.89%
Weather Contingency (6.00%)			11.89	4.34%	\$51,946.03	3.95%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%
Storage / Scrapping					\$0.00	0.00%
Reef Donation					\$0.00	0.00%
Cost of Engineering (8.00%)					\$83,834.68	6.38%
Total:			274.03	100.00%	\$1,313,579.33	100.00%



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.
Pipeline Decommission Resources Breakdown
HI A330 HIOS (Ver 1) Segment#:4087

Resource Used	Unit Cost		Cost	
CB 240 & Tug	\$500.00	per Hour per Barge/Tug	\$14,000.00	1.08%
DB 2000	\$8,815.00	per Hour per Barge	\$246,820.00	19.00%
Decommissioning Crew	\$0.00	Calculated from tables	\$22,996.15	1.77%
Dive Boat	\$0.00	Calculated from tables	\$52,667.32	4.05%
Dive Serv - Basic	\$0.00	Calculated from tables	\$446,328.30	34.36%
Dive Serv - Suppl	\$0.00	Calculated from tables	\$223,234.66	17.19%
Manual Calculation	\$0.00	Independently Calculated	\$0.00	0.00%
Work Boat	\$0.00	Calculated from tables	\$41,887.09	3.22%



Enterprise Products Partners L.P.

Pipeline Decommission Cost Breakdown

HI A330 HIOS (Ver 1) Segment#:4087

Task		Task Hours		Task Cost	
Mobilize Work Boat		17.10	6.24%	\$9,761.25	0.75%
Work Boat	\$7,837.50				
Decommissioning Crew	\$1,923.75				
Rig Up Decomm Equipment		5.00	1.82%	\$2,854.17	0.22%
Work Boat	\$2,291.67				
Decommissioning Crew	\$562.50				
Pig & Flush Pipeline		50.19	18.32%	\$28,650.12	2.21%
Work Boat	\$23,003.75				
Decommissioning Crew	\$5,646.37				
Derig Decomm Equipment		2.00	0.73%	\$1,141.67	0.09%
Work Boat	\$916.67				
Decommissioning Crew	\$225.00				
Demob Work Boat		17.10	6.24%	\$9,761.25	0.75%
Work Boat	\$7,837.50				
Decommissioning Crew	\$1,923.75				
Mobilize Dive Boat		17.10	6.24%	\$91,083.15	7.01%
Dive Boat	\$7,968.60				
Dive Serv - Basic	\$54,121.50				
Dive Serv - Suppl	\$27,069.30				
Decommissioning Crew	\$1,923.75				
Set Up Dive Boat		3.00	1.09%	\$15,979.50	1.23%
Dive Boat	\$1,398.00				
Dive Serv - Basic	\$9,495.00				
Dive Serv - Suppl	\$4,749.00				
Decommissioning Crew	\$337.50				
Expose Pipeline		9.10	3.32%	\$48,471.15	3.73%
Dive Boat	\$4,240.60				
Dive Serv - Basic	\$28,801.50				
Dive Serv - Suppl	\$14,405.30				
Decommissioning Crew	\$1,023.75				



Enterprise Products Partners L.P. Pipeline Decommission Cost Breakdown

Cut & Plug Pipeline		9.10	3.32%	\$48,471.15	3.73%
Dive Boat	\$4,240.60				
Dive Serv - Basic	\$28,801.50				
Dive Serv - Suppl	\$14,405.30				
Decommissioning Crew	\$1,023.75				
Cut Pipeline Riser		6.07	2.22%	\$32,331.86	2.49%
Dive Boat	\$2,828.62				
Dive Serv - Basic	\$19,211.55				
Dive Serv - Suppl	\$9,608.81				
Decommissioning Crew	\$682.88				
Remove Tube Turn		6.07	2.22%	\$32,331.86	2.49%
Dive Boat	\$2,828.62				
Dive Serv - Basic	\$19,211.55				
Dive Serv - Suppl	\$9,608.81				
Decommissioning Crew	\$682.88				
Manual Calculation	\$0.00				
Bury Pipeline		6.07	2.22%	\$32,331.86	2.49%
Dive Boat	\$2,828.62				
Dive Serv - Basic	\$19,211.55				
Dive Serv - Suppl	\$9,608.81				
Decommissioning Crew	\$682.88				
Set Up Dive Boat		3.00	1.09%	\$15,979.50	1.23%
Dive Boat	\$1,398.00				
Dive Serv - Basic	\$9,495.00				
Dive Serv - Suppl	\$4,749.00				
Decommissioning Crew	\$337.50				
Expose Pipeline		9.10	3.32%	\$48,471.15	3.73%
Dive Boat	\$4,240.60				
Dive Serv - Basic	\$28,801.50				
Dive Serv - Suppl	\$14,405.30				
Decommissioning Crew	\$1,023.75				



Enterprise Products Partners L.P. Pipeline Decommission Cost Breakdown

Cut & Plug Pipeline		9.10	3.32%	\$48,471.15	3.73%
Dive Boat	\$4,240.60				
Dive Serv - Basic	\$28,801.50				
Dive Serv - Suppl	\$14,405.30				
Decommissioning Crew	\$1,023.75				
Cut Pipeline Riser		6.07	2.22%	\$32,331.86	2.49%
Dive Boat	\$2,828.62				
Dive Serv - Basic	\$19,211.55				
Dive Serv - Suppl	\$9,608.81				
Decommissioning Crew	\$682.88				
Remove Tube Turn		6.07	2.22%	\$32,331.86	2.49%
Dive Boat	\$2,828.62				
Dive Serv - Basic	\$19,211.55				
Dive Serv - Suppl	\$9,608.81				
Decommissioning Crew	\$682.88				
Bury Pipeline		6.07	2.22%	\$32,331.86	2.49%
Dive Boat	\$2,828.62				
Dive Serv - Basic	\$19,211.55				
Dive Serv - Suppl	\$9,608.81				
Decommissioning Crew	\$682.88				
Demob Dive Boat		17.10	6.24%	\$91,083.15	7.01%
Dive Boat	\$7,968.60				
Dive Serv - Basic	\$54,121.50				
Dive Serv - Suppl	\$27,069.30				
Decommissioning Crew	\$1,923.75				
Remove Pipeline		28.00	10.22%	\$393,764.00	30.31%
DB 2000	\$246,820.00				
Dive Serv - Basic	\$88,620.00				
Dive Serv - Suppl	\$44,324.00				
CB 240 & Tug	\$14,000.00				
Total		232.41	84.81%	\$1,047,933.52	80.67%

HI A343 HIOS



Enterprise Products Partners L.P.

Platform Salvage Option

HI A343 HIOS (Ver 1)

High Island Block A343 has 1 structure that is operated by Enterprise Products Partners L.P. The structure will be removed in one mobilization and demobilization of a 2000-ton derrick barge. All production equipment will be flushed and purged of any hydrocarbons. The equipment that will be removed by the derrick barge will be cut free of the platform.

Also the pipelines will be pigged, flushed, cleaned, plugged and left in-situ. (See #12 below.)

High Island A343 HIOS is a 4-pile Manifold platform installed in 1979 in 235' water depth. A 48-hour turtle watch operation conducted by the National Marine Fisheries service will be needed. The equipment and deck will be placed on a 180' x 54' cargo barge. The piles will be explosively severed, removed from the jacket, cut in half and placed on a 180' x 54' cargo barge. The jacket will be placed on a 240' x 72' cargo barge. The deck, facilities, piles and jacket will be taken to shore and scrapped. A 1,320 ft radius will be needed to clear site of any bottom debris.

This estimate is based on the following assumptions:

1. All decks and jackets and associated equipment are taken to shore and scrapped.
2. Removal Contractor is responsible for transport and disposal of decks, jackets, and associated equipment.
3. No salvage or resale value has been considered for the structure or equipment.
4. One derrick mobilization/demobilization cost is included for each block.
5. Mobilization times are estimated from the Eugene Island sea buoy.
6. No dockside mobilization or demobilization is included, construction barge spreads are assumed to be readily available in the Gulf of Mexico.
7. All work will be performed during the summer work season.
8. No allowances have been made for named tropical storm downtime.
9. The current guidelines for the use of explosives are assumed.
10. No allowances have been made for the presence of sea turtles or marine mammals.
11. All NORM, NOW, and industrial waste are removed from the platforms prior to decommissioning.
12. All pipelines are abandoned-in-place.
13. Tube Turns and 100' of pipeline are removed at each end of pipelines.
14. Tube Turns and pipelines are buried a minimum of 5ft. at the base of the platform.
15. All pipeline ends can be sealed using mechanical-type plugs. No provisions are made for more stringent environmental or safety regulations.
16. Site clearance and verification is in accordance with NTL 98-26.
17. Hourly rates for construction and diving spreads are developed from offshore



Enterprise Products Partners L.P.

Platform Salvage Option

HI A343 HIOS (Ver 1)

contractors published rates.

18. Engineering & Project Management cost 8% (company or other).

19. Work Contingency 15%

20. Weather Contingency 6%

The following data will be assumed based on previous estimates developed and work experience:

Pile OD

Deck Weights

Jacket Weights

Grout Weights

Equipment Weights

Estimated Decommissioning Gross Cost = \$4,602,413

Estimated Decommissioning Net Cost = \$4,602,413



Enterprise Products Partners L.P.

Basic Information

HI A343 HIOS (Ver 1)

General Data

Platform:	HI A343 HIOS
Function:	DRILL/MANIFOLD
Type:	Steel
Water Depth:	235'
Pre 461H?:	Yes
Year Installed:	1979
Year Estimate Developed:	
District:	Gulf of Mexico
Lease Number:	
Account Code:	TSB - 26058
Amortization:	1.00
# Wells to P & A:	0
# Pipelines to Abandon:	1
Estimate Complete?:	Yes

Partner Data

Partner	Working Interest
1 Enterprise Products Partners L.P.	100.00%

Estimated Costs

	Gross Cost	Net Cost
Platform Removal:	\$3,296,651	\$3,296,651
Well Plugging & Abandonment:	\$0	\$0
Pipeline Abandonment:	\$1,305,762	\$1,305,762
Total Decommissioning Cost:	\$4,602,413	\$4,602,413



Enterprise Products Partners L.P.

Platform Information

HI A343 HIOS (Ver 1)

Pile/Tendon Data

	Number	Outside Diameter	Wall Thickness	Grout Annulus	Grout Internal	Depth Below Mudline
Main:	4	48"	1.5"	No	No	
Skirt/Braced	0			No	No	
Anchor:	0					
Dolphin:	0					

Deck Dimensions

	Dimensions	Elevation
Upper:	70X70	70
Middle:		
Lower:		

Conductors

Number of Slots:	0
Number Installed:	0
Outside Diameter:	
Wall Thickness:	
Number Slanted:	0

Jacket Data

	Weight (Tons)	With Piles	With Piles & Grout
Submerged:			
Dry:	800.00		
Jacket Installation Date:			
Jacket Contractor:			

Deck Data

Deck Lift Weight with Equipment:	550 Tons
Number of Padeyes Required:	0
Deck Installation Date:	3/30/79
Deck Contractor:	



Enterprise Products Partners L.P.

Platform Information

HI A343 HIOS (Ver 1)

Equipment Lift Weights

Equipment	Weight (Tons)
Heliport	20.00

Members to be Cut Data

Underwater Members

Size	Qty
------	-----

Cargo Descriptions

Cargo Barge Size	Cargo Description
CB 180 x 54	Deck 100-500T Equipment
CB 180 x 54	Piles
CB 240 x 72	Jkt > 700T

Miscellaneous Data

Derrick Barge Anchors:	8
Assist Derrick Barge Anchors:	0
Tow Distance:	4.00
Provision for Misc. Work%:	15.00%
Weather Contingency%:	6.00%
Engineering%:	8.00%

Miscellaneous Costs

Consumables:	\$0.00
Waste Disposal:	\$0.00
Structure & Equipment Disposal:	\$0.00
Reef Donation:	\$0.00
Cost of Engineering:	\$221,016.91



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.

Platform Comments

HI A343 HIOS (Ver 1)

Assumed the following:

Jacket Weights, Deck Weights, Pile Sizes, Equipment Weights



Enterprise Products Partners L.P.

Platform Decommission Task Information

HI A343 HIOS (Ver 1)

Task	Note	Contingency	Task Hours		Task Cost	
Fab Explosive Charges		<input type="checkbox"/>	0.00	0.00%	\$34,000.00	1.03%
Platform Removal Preparation		<input type="checkbox"/>	504.00	21.16%	\$428,400.00	13.00%
Mobilize Work Boat		<input type="checkbox"/>	18.30	0.77%	\$8,710.80	0.26%
NMFS Marine Observation		<input type="checkbox"/>	48.00	2.02%	\$22,848.00	0.69%
Demob Work Boat		<input type="checkbox"/>	18.30	0.77%	\$6,405.00	0.19%
Mobilize DB 2000		<input type="checkbox"/>	21.86	0.92%	\$273,422.92	8.29%
Mobilize CB 180 & Tug	Deck and Equipment	<input type="checkbox"/>	38.60	1.62%	\$22,282.00	0.68%
Mobilize CB 180 & Tug	Piles (Cut in half)	<input type="checkbox"/>	38.60	1.62%	\$22,282.00	0.68%
Mobilize CB 240 & Tug	Jacket	<input type="checkbox"/>	38.60	1.62%	\$33,300.00	1.01%
Setup Derrick Barge		<input checked="" type="checkbox"/>	6.75	0.28%	\$83,349.00	2.53%
Cut Deck/Equip/Misc		<input checked="" type="checkbox"/>	4.64	0.19%	\$59,011.52	1.79%
Remove Equipment		<input checked="" type="checkbox"/>	0.50	0.02%	\$6,359.00	0.19%
Remove 4 Pile Deck		<input checked="" type="checkbox"/>	9.35	0.39%	\$118,913.30	3.61%
Demob CB 180 & Tug		<input type="checkbox"/>	38.60	1.62%	\$14,282.00	0.43%
Standby for Daylight Det.		<input checked="" type="checkbox"/>	8.00	0.34%	\$101,744.00	3.09%
Jet/Airlift Pile Mud Plug		<input checked="" type="checkbox"/>	16.00	0.67%	\$203,488.00	6.17%
Pre/Post Detonat'n Survey		<input checked="" type="checkbox"/>	1.00	0.04%	\$18,968.00	0.58%
Sever Piles- Explosive		<input checked="" type="checkbox"/>	2.92	0.12%	\$37,136.56	1.13%
Remove Piles from Jackt Legs		<input checked="" type="checkbox"/>	27.06	1.14%	\$340,739.52	10.34%
Demob CB 180 & Tug		<input type="checkbox"/>	38.60	1.62%	\$14,282.00	0.43%
Remove Jacket - Meth 3		<input checked="" type="checkbox"/>	21.70	0.91%	\$276,067.42	8.37%
Demob CB 240 & Tug		<input type="checkbox"/>	38.60	1.62%	\$19,300.00	0.59%
Pick Up DB Anchors		<input checked="" type="checkbox"/>	6.75	0.28%	\$82,498.50	2.50%
Demob DB 2000		<input type="checkbox"/>	21.86	0.92%	\$273,422.92	8.29%
Site Clearance - with Trawler		<input checked="" type="checkbox"/>	285.86	12.00%	\$79,623.46	2.42%
Site Clearance Verify		<input checked="" type="checkbox"/>	427.71	17.96%	\$82,211.31	2.49%
Offload CB 180		<input type="checkbox"/>	216.00	9.07%	\$41,600.00	1.26%
Offload CB 240		<input type="checkbox"/>	312.00	13.10%	\$58,064.00	1.76%
Task Total			2210.16	92.79%	\$2,762,711.25	83.80%
Misc. Work Provision (15.00%)			122.74	5.15%	\$223,516.50	6.78%
Weather Contingency (6.00%)			49.09	2.06%	\$89,406.57	2.71%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%
Storage / Scrapping					\$0.00	0.00%
Reef Donation					\$0.00	0.00%



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.
Platform Decommission Task Information
HI A343 HIOS (Ver 1)

Task	Note	Contingency	Task Hours	Task Cost
		Cost of Engineering (8.00%)		\$221,016.90 6.70%
		Total:	2381.99 100.00%	\$3,296,651.22 100.00%



Enterprise Products Partners L.P.

Platform Decommission Resources Breakdown

HI A343 HIOS (Ver 1)

Resource Used	Unit Cost		Cost	
Cargo Barge 180	\$2,400.00	per Day per Barge	\$21,600.00	0.66%
Cargo Barge 240	\$2,928.00	per Day per Barge	\$38,064.00	1.15%
CB 180 & Tug	\$370.00	per Hour per Barge/Tug	\$82,831.90	2.51%
CB 240 & Tug	\$500.00	per Hour per Barge/Tug	\$49,450.00	1.50%
CB Damage Deduct	\$20,000.00	per Cargo Barge	\$40,000.00	1.21%
Decomm Platform	\$0.00	Calculated from tables	\$252,000.00	7.64%
Derrick Barge 2000	\$8,815.00	per Hour per barge	\$1,308,057.89	39.68%
Dive Serv - Basic	\$0.00	Calculated from tables	\$469,654.34	14.25%
Expl Charge - Piling	\$0.00	per Inch of Outside Diam	\$34,000.00	1.03%
Expl Technician	\$130.00	per Hour	\$19,290.70	0.59%
Helicopter Trips	\$6,250.00	per Round Trip	\$18,750.00	0.57%
Nets (Heavy Duty, Non-Repairable)	\$4,800.00	ea	\$14,400.00	0.44%
Nets (Heavy Duty, Repairable)	\$2,400.00	ea	\$19,200.00	0.58%
Nets (Non-Repairable)	\$2,150.00	ea	\$6,450.00	0.20%
Nets (Repairable)	\$1,150.00	ea	\$6,900.00	0.21%
NMFS Observers (2)	\$126.00	per Hour	\$14,547.96	0.44%
Pipeline Survey	\$112.00	per Hour	\$16,619.68	0.50%
Rig Up CB 180	\$8,000.00	per Barge	\$16,000.00	0.49%
Rig Up CB 240	\$14,000.00	per Barge	\$14,000.00	0.42%
Trawler	\$161.00	per Hour	\$114,884.77	3.48%
Work Boat	\$350.00	per Hour	\$206,010.00	6.25%



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A343 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Fab Explosive Charges	0.00	0.00%	\$34,000.00	1.03%
Expl Charge - Piling			\$34,000.00	
Platform Removal Preparation	504.00	21.16%	\$428,400.00	13.00%
Decomm Platform			\$252,000.00	
Work Boat			\$176,400.00	
Mobilize Work Boat	18.30	0.77%	\$8,710.80	0.26%
Work Boat			\$6,405.00	
NMFS Observers (2)			\$2,305.80	
NMFS Marine Observation	48.00	2.02%	\$22,848.00	0.69%
Work Boat			\$16,800.00	
NMFS Observers (2)			\$6,048.00	
Demob Work Boat	18.30	0.77%	\$6,405.00	0.19%
Work Boat			\$6,405.00	
Mobilize DB 2000	21.86	0.92%	\$273,422.92	8.29%
Derrick Barge 2000			\$192,695.91	
Dive Serv - Basic			\$69,186.90	
Pipeline Survey			\$2,448.32	
Expl Technician			\$2,841.80	
Helicopter Trips			\$6,250.00	
Mobilize CB 180 & Tug	38.60	1.62%	\$22,282.00	0.68%
CB 180 & Tug			\$14,282.00	
Rig Up CB 180			\$8,000.00	
Mobilize CB 180 & Tug	38.60	1.62%	\$22,282.00	0.68%
CB 180 & Tug			\$14,282.00	
Rig Up CB 180			\$8,000.00	
Mobilize CB 240 & Tug	38.60	1.62%	\$33,300.00	1.01%
CB 240 & Tug			\$19,300.00	
Rig Up CB 240			\$14,000.00	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A343 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Setup Derrick Barge	6.75	0.28%	\$83,349.00	2.53%
Derrick Barge 2000			\$59,501.25	
Dive Serv - Basic			\$21,363.75	
Pipeline Survey			\$756.00	
Expl Technician			\$877.50	
NMFS Observers (2)			\$850.50	
Cut Deck/Equip/Misc	4.64	0.19%	\$59,011.52	1.79%
Derrick Barge 2000			\$40,901.60	
Dive Serv - Basic			\$14,685.60	
Pipeline Survey			\$519.68	
Expl Technician			\$603.20	
NMFS Observers (2)			\$584.64	
CB 180 & Tug			\$1,716.80	
Remove Equipment	0.50	0.02%	\$6,359.00	0.19%
Derrick Barge 2000			\$4,407.50	
Dive Serv - Basic			\$1,582.50	
Pipeline Survey			\$56.00	
Expl Technician			\$65.00	
NMFS Observers (2)			\$63.00	
CB 180 & Tug			\$185.00	
Remove 4 Pile Deck	9.35	0.39%	\$118,913.30	3.61%
Derrick Barge 2000			\$82,420.25	
Dive Serv - Basic			\$29,592.75	
Pipeline Survey			\$1,047.20	
Expl Technician			\$1,215.50	
NMFS Observers (2)			\$1,178.10	
CB 180 & Tug			\$3,459.50	
Demob CB 180 & Tug	38.60	1.62%	\$14,282.00	0.43%
CB 180 & Tug			\$14,282.00	



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
HI A343 HIOS (Ver 1)

		Task Hours		Task Cost	
Task					
Standby for Daylight Det.		8.00	0.34%	\$101,744.00	3.09%
Derrick Barge 2000	\$70,520.00				
Dive Serv - Basic	\$25,320.00				
Pipeline Survey	\$896.00				
Expl Technician	\$1,040.00				
NMFS Observers (2)	\$1,008.00				
CB 180 & Tug	\$2,960.00				
Jet/Airlift Pile Mud Plug		16.00	0.67%	\$203,488.00	6.17%
Derrick Barge 2000	\$141,040.00				
Dive Serv - Basic	\$50,640.00				
Pipeline Survey	\$1,792.00				
Expl Technician	\$2,080.00				
NMFS Observers (2)	\$2,016.00				
CB 180 & Tug	\$5,920.00				
Pre/Post Detonat'n Survey		1.00	0.04%	\$18,968.00	0.58%
Derrick Barge 2000	\$8,815.00				
Dive Serv - Basic	\$3,165.00				
Pipeline Survey	\$112.00				
Expl Technician	\$130.00				
NMFS Observers (2)	\$126.00				
CB 180 & Tug	\$370.00				
Helicopter Trips	\$6,250.00				
Sever Piles- Explosive		2.92	0.12%	\$37,136.56	1.13%
Derrick Barge 2000	\$25,739.80				
Dive Serv - Basic	\$9,241.80				
Pipeline Survey	\$327.04				
Expl Technician	\$379.60				
NMFS Observers (2)	\$367.92				
CB 180 & Tug	\$1,080.40				



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A343 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Remove Piles from Jackt Legs	27.06	1.14%	\$340,739.52	10.34%
Derrick Barge 2000			\$238,533.91	
Dive Serv - Basic			\$85,644.90	
Pipeline Survey			\$3,030.72	
Expl Technician			\$3,517.80	
CB 180 & Tug			\$10,012.20	
Demob CB 180 & Tug	38.60	1.62%	\$14,282.00	0.43%
CB 180 & Tug			\$14,282.00	
Remove Jacket - Meth 3	21.70	0.91%	\$276,067.42	8.37%
Derrick Barge 2000			\$191,285.52	
Dive Serv - Basic			\$68,680.50	
Pipeline Survey			\$2,430.40	
Expl Technician			\$2,821.00	
CB 240 & Tug			\$10,850.00	
Demob CB 240 & Tug	38.60	1.62%	\$19,300.00	0.59%
CB 240 & Tug			\$19,300.00	
Pick Up DB Anchors	6.75	0.28%	\$82,498.50	2.50%
Derrick Barge 2000			\$59,501.25	
Dive Serv - Basic			\$21,363.75	
Pipeline Survey			\$756.00	
Expl Technician			\$877.50	
Demob DB 2000	21.86	0.92%	\$273,422.92	8.29%
Derrick Barge 2000			\$192,695.91	
Pipeline Survey			\$2,448.32	
Dive Serv - Basic			\$69,186.90	
Expl Technician			\$2,841.80	
Helicopter Trips			\$6,250.00	



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
HI A343 HIOS (Ver 1)

		Task Hours		Task Cost	
Task					
Site Clearance - with Trawler		285.86	12.00%	\$79,623.46	2.42%
	Trawler	\$46,023.46			
	Nets (Heavy Duty, Non-Repairable)	\$14,400.00			
	Nets (Heavy Duty, Repairable)	\$19,200.00			
Site Clearance Verify		427.71	17.96%	\$82,211.31	2.49%
	Trawler	\$68,861.31			
	Nets (Non-Repairable)	\$6,450.00			
	Nets (Repairable)	\$6,900.00			
Offload CB 180		216.00	9.07%	\$41,600.00	1.26%
	Cargo Barge 180	\$21,600.00			
	CB Damage Deduct	\$20,000.00			
Offload CB 240		312.00	13.10%	\$58,064.00	1.76%
	Cargo Barge 240	\$38,064.00			
	CB Damage Deduct	\$20,000.00			
Total		2210.16	92.79%	\$2,762,711.25	83.80%



Enterprise Products Partners L.P.

Pipeline Information

HI A343 HIOS (Ver1) Segment#:4088

General Data

Water Depth:	235'
Origin / Terminus:	Origin
Opposite End Name:	HI A264 A
Opposite End Water Depth:	152'
Pipeline Operator:	Enterprise Products Partners L.P
Provision for Misc. Work%:	15.00%
Weather Contingency %:	6.00%

Pipeline Data

Outside Diameter:	36"	Wall Thickness:		Length:	138125'
Depth of Burial:		# Crossings:		Product:	Gas/Cond
Installation Date:		Weight Coating:	No	J Tube:	No
Riser?:	No	Riser Guard?:	No		

Comments



Enterprise Products Partners L.P.
Pipeline Decommission Task Information
HI A343 HIOS (Ver 1) Segment#:4088

Task	Note	Contingency	Task Hours		Task Cost	
Mobilize Work Boat		<input checked="" type="checkbox"/>	18.30	5.16%	\$10,446.25	0.80%
Rig Up Decomm Equipment		<input checked="" type="checkbox"/>	5.00	1.41%	\$2,854.17	0.22%
Pig & Flush Pipeline		<input checked="" type="checkbox"/>	123.68	34.88%	\$70,600.67	5.41%
Derig Decomm Equipment		<input checked="" type="checkbox"/>	2.00	0.56%	\$1,141.67	0.09%
Demob Work Boat		<input checked="" type="checkbox"/>	18.30	5.16%	\$10,446.25	0.80%
Mobilize Dive Boat		<input type="checkbox"/>	18.30	5.16%	\$97,474.95	7.46%
Set Up Dive Boat		<input checked="" type="checkbox"/>	3.00	0.85%	\$15,979.50	1.22%
Expose Pipeline		<input checked="" type="checkbox"/>	7.69	2.17%	\$40,960.79	3.14%
Cut & Plug Pipeline		<input checked="" type="checkbox"/>	7.69	2.17%	\$40,960.79	3.14%
Cut Pipeline Riser		<input checked="" type="checkbox"/>	5.13	1.45%	\$27,324.95	2.09%
Remove Tube Turn		<input checked="" type="checkbox"/>	5.13	1.45%	\$27,324.95	2.09%
Bury Pipeline		<input checked="" type="checkbox"/>	5.13	1.45%	\$27,324.95	2.09%
Set Up Dive Boat		<input checked="" type="checkbox"/>	3.00	0.85%	\$15,979.50	1.22%
Expose Pipeline		<input checked="" type="checkbox"/>	7.69	2.17%	\$40,960.79	3.14%
Cut & Plug Pipeline		<input checked="" type="checkbox"/>	7.69	2.17%	\$40,960.79	3.14%
Cut Pipeline Riser		<input checked="" type="checkbox"/>	5.13	1.45%	\$27,324.95	2.09%
Remove Tube Turn		<input checked="" type="checkbox"/>	5.13	1.45%	\$27,324.95	2.09%
Bury Pipeline		<input checked="" type="checkbox"/>	5.13	1.45%	\$27,324.95	2.09%
Demob Dive Boat		<input type="checkbox"/>	18.30	5.16%	\$97,474.95	7.46%
Remove Pipeline	Remove Tube Turns & 100' of pipeline at each end	<input checked="" type="checkbox"/>	28.00	7.90%	\$393,764.00	30.16%
Task Total			299.42	84.44%	\$1,043,954.77	79.95%
Misc. Work Provision (15.00%)			39.42	11.12%	\$127,350.74	9.75%
Weather Contingency (6.00%)			15.77	4.45%	\$50,940.29	3.90%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%
Storage / Scrapping					\$0.00	0.00%
Reef Donation					\$0.00	0.00%
Cost of Engineering (8.00%)					\$83,516.38	6.40%
Total:			354.61	100.00%	\$1,305,762.18	100.00%



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.
Pipeline Decommission Resources Breakdown
HI A343 HIOS (Ver 1) Segment#:4088

Resource Used	Unit Cost		Cost	
CB 240 & Tug	\$500.00	per Hour per Barge/Tug	\$14,000.00	1.09%
DB 2000	\$8,815.00	per Hour per Barge	\$246,820.00	19.13%
Decommissioning Crew	\$0.00	Calculated from tables	\$30,534.80	2.37%
Dive Boat	\$0.00	Calculated from tables	\$48,529.24	3.76%
Dive Serv - Basic	\$0.00	Calculated from tables	\$418,223.10	32.42%
Dive Serv - Suppl	\$0.00	Calculated from tables	\$209,177.62	16.21%
Manual Calculation	\$0.00	Independently Calculated	\$0.00	0.00%
Work Boat	\$0.00	Calculated from tables	\$76,670.01	5.94%



Enterprise Products Partners L.P.

Pipeline Decommission Cost Breakdown

HI A343 HIOS (Ver 1) Segment#:4088

Task		Task Hours		Task Cost	
Mobilize Work Boat		18.30	5.16%	\$10,446.25	0.81%
Work Boat	\$8,387.50				
Decommissioning Crew	\$2,058.75				
Rig Up Decomm Equipment		5.00	1.41%	\$2,854.17	0.22%
Work Boat	\$2,291.67				
Decommissioning Crew	\$562.50				
Pig & Flush Pipeline		123.68	34.88%	\$70,600.67	5.47%
Work Boat	\$56,686.67				
Decommissioning Crew	\$13,914.00				
Derig Decomm Equipment		2.00	0.56%	\$1,141.67	0.09%
Work Boat	\$916.67				
Decommissioning Crew	\$225.00				
Demob Work Boat		18.30	5.16%	\$10,446.25	0.81%
Work Boat	\$8,387.50				
Decommissioning Crew	\$2,058.75				
Mobilize Dive Boat		18.30	5.16%	\$97,474.95	7.56%
Dive Boat	\$8,527.80				
Dive Serv - Basic	\$57,919.50				
Dive Serv - Suppl	\$28,968.90				
Decommissioning Crew	\$2,058.75				
Set Up Dive Boat		3.00	0.85%	\$15,979.50	1.24%
Dive Boat	\$1,398.00				
Dive Serv - Basic	\$9,495.00				
Dive Serv - Suppl	\$4,749.00				
Decommissioning Crew	\$337.50				
Expose Pipeline		7.69	2.17%	\$40,960.79	3.17%
Dive Boat	\$3,583.54				
Dive Serv - Basic	\$24,338.85				
Dive Serv - Suppl	\$12,173.27				
Decommissioning Crew	\$865.13				



Enterprise Products Partners L.P. Pipeline Decommission Cost Breakdown

Cut & Plug Pipeline		7.69	2.17%	\$40,960.79	3.17%
Dive Boat	\$3,583.54				
Dive Serv - Basic	\$24,338.85				
Dive Serv - Suppl	\$12,173.27				
Decommissioning Crew	\$865.13				
Cut Pipeline Riser		5.13	1.45%	\$27,324.95	2.12%
Dive Boat	\$2,390.58				
Dive Serv - Basic	\$16,236.45				
Dive Serv - Suppl	\$8,120.79				
Decommissioning Crew	\$577.13				
Remove Tube Turn		5.13	1.45%	\$27,324.95	2.12%
Dive Boat	\$2,390.58				
Dive Serv - Basic	\$16,236.45				
Dive Serv - Suppl	\$8,120.79				
Decommissioning Crew	\$577.13				
Manual Calculation	\$0.00				
Bury Pipeline		5.13	1.45%	\$27,324.95	2.12%
Dive Boat	\$2,390.58				
Dive Serv - Basic	\$16,236.45				
Dive Serv - Suppl	\$8,120.79				
Decommissioning Crew	\$577.13				
Set Up Dive Boat		3.00	0.85%	\$15,979.50	1.24%
Dive Boat	\$1,398.00				
Dive Serv - Basic	\$9,495.00				
Dive Serv - Suppl	\$4,749.00				
Decommissioning Crew	\$337.50				
Expose Pipeline		7.69	2.17%	\$40,960.79	3.17%
Dive Boat	\$3,583.54				
Dive Serv - Basic	\$24,338.85				
Dive Serv - Suppl	\$12,173.27				
Decommissioning Crew	\$865.13				



Enterprise Products Partners L.P. Pipeline Decommission Cost Breakdown

Cut & Plug Pipeline		7.69	2.17%	\$40,960.79	3.17%
Dive Boat	\$3,583.54				
Dive Serv - Basic	\$24,338.85				
Dive Serv - Suppl	\$12,173.27				
Decommissioning Crew	\$865.13				
Cut Pipeline Riser		5.13	1.45%	\$27,324.95	2.12%
Dive Boat	\$2,390.58				
Dive Serv - Basic	\$16,236.45				
Dive Serv - Suppl	\$8,120.79				
Decommissioning Crew	\$577.13				
Remove Tube Turn		5.13	1.45%	\$27,324.95	2.12%
Dive Boat	\$2,390.58				
Dive Serv - Basic	\$16,236.45				
Dive Serv - Suppl	\$8,120.79				
Decommissioning Crew	\$577.13				
Bury Pipeline		5.13	1.45%	\$27,324.95	2.12%
Dive Boat	\$2,390.58				
Dive Serv - Basic	\$16,236.45				
Dive Serv - Suppl	\$8,120.79				
Decommissioning Crew	\$577.13				
Demob Dive Boat		18.30	5.16%	\$97,474.95	7.56%
Dive Boat	\$8,527.80				
Dive Serv - Basic	\$57,919.50				
Dive Serv - Suppl	\$28,968.90				
Decommissioning Crew	\$2,058.75				
Remove Pipeline		28.00	7.90%	\$393,764.00	30.52%
DB 2000	\$246,820.00				
Dive Serv - Basic	\$88,620.00				
Dive Serv - Suppl	\$44,324.00				
CB 240 & Tug	\$14,000.00				
Total		299.42	84.44%	\$1,043,954.77	80.92%

HI A350 Pipeline



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.

Platform Salvage Option

HI A350 Pipeline (Ver 1)

This estimate includes only pipeline abandonment costs.

Estimated Decommissioning Gross Cost =	\$931,318
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Estimated Decommissioning Net Cost =	\$472,271
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Enterprise Products Partners L.P.

Basic Information

HI A350 Pipeline (Ver 1)

General Data

Platform: HI A350 Pipeline
Function:
Type:
Water Depth:
Pre 461H?: No
Year Installed:
Year Estimate Developed:
District:
Lease Number:
Account Code: TSB - 26058
Amortization: 1.00
Wells to P & A: 0
Pipelines to Abandon: 1
Estimate Complete?: Yes

Partner Data

Partner	Working Interest
1 Enterprise Products Partners L.P.	50.71%

Estimated Costs

	Gross Cost	Net Cost
Platform Removal:	\$0	\$0
Well Plugging & Abandonment:	\$0	\$0
Pipeline Abandonment:	\$931,318	\$472,271
Total Decommissioning Cost:	\$931,318	\$472,271



Enterprise Products Partners L.P.

Platform Information

HI A350 Pipeline (Ver 1)

Pile/Tendon Data

	Number	Outside Diameter	Wall Thickness	Grout Annulus	Grout Internal	Depth Below Mudline
Main:	0			No	No	
Skirt/Braced	0			No	No	
Anchor:	0					
Dolphin:	0					

Deck Dimensions

	Dimensions	Elevation
Upper:		
Middle:		
Lower:		

Conductors

Number of Slots:	0
Number Installed:	0
Outside Diameter:	
Wall Thickness:	
Number Slanted:	0

Jacket Data

	Weight (Tons)	With Piles	With Piles & Grout
Submerged:			
Dry:			
Jacket Installation Date:			
Jacket Contractor:			

Deck Data

Deck Lift Weight with Equipment:	
Number of Padeyes Required:	0
Deck Installation Date:	
Deck Contractor:	



Enterprise Products Partners L.P.

Platform Information

HI A350 Pipeline (Ver 1)

Equipment Lift Weights

Members to be Cut Data

Cargo Descriptions

Cargo Barge Size	Cargo Description
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Miscellaneous Data

Derrick Barge Anchors:	0
Assist Derrick Barge Anchors:	0
Tow Distance:	0.00
Provision for Misc. Work%:	15.00%
Weather Contingency%:	6.00%
Engineering%:	8.00%

Miscellaneous Costs

Consumables:	\$0.00
Waste Disposal:	\$0.00
Structure & Equipment Disposal:	\$0.00
Reef Donation:	\$0.00
Cost of Engineering:	\$0.00



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.

Platform Comments

HI A350 Pipeline (Ver 1)



Enterprise Products Partners L.P.

Pipeline Information

HI A350 Pipeline (Ver1) Segment#:4679

General Data

Water Depth:	305'
Origin / Terminus:	Origin
Opposite End Name:	HI A350 24 SSTI
Opposite End Water Depth:	305'
Pipeline Operator:	Enterprise Products Partners L.P
Provision for Misc. Work%:	15.00%
Weather Contingency %:	6.00%

Pipeline Data

Outside Diameter:	20"	Wall Thickness:		Length:	350'
Depth of Burial:		# Crossings:		Product:	Gas
Installation Date:		Weight Coating:	No	J Tube:	No
Riser?:	No	Riser Guard?:	No		

Comments



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.
Pipeline Decommission Task Information
HI A350 Pipeline (Ver 1) Segment#:4679

Task	Note	Contingency	Task Hours		Task Cost	
Mobilize Dive Boat		<input type="checkbox"/>	17.10	18.56%	\$91,083.15	9.78%
Set Up Dive Boat		<input checked="" type="checkbox"/>	3.00	3.26%	\$15,979.50	1.72%
Rig Up Decomm Equipment		<input checked="" type="checkbox"/>	5.00	5.43%	\$26,632.50	2.86%
Pig & Flush Pipeline		<input checked="" type="checkbox"/>	1.86	2.02%	\$9,907.29	1.06%
Derig Decomm Equipment		<input checked="" type="checkbox"/>	2.00	2.17%	\$10,653.00	1.14%
Demob Dive Boat		<input type="checkbox"/>	17.10	18.56%	\$91,083.15	9.78%
Remove Pipeline		<input checked="" type="checkbox"/>	36.00	39.08%	\$506,268.00	54.36%
Task Total			82.06	89.09%	\$751,606.59	80.70%
Misc. Work Provision (15.00%)			7.18	7.79%	\$85,416.05	9.17%
Weather Contingency (6.00%)			2.87	3.12%	\$34,166.42	3.67%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%
Storage / Scrapping					\$0.00	0.00%
Reef Donation					\$0.00	0.00%
Cost of Engineering (8.00%)					\$60,128.53	6.46%
Total:			92.11	100.00%	\$931,317.58	100.00%



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.
Pipeline Decommission Resources Breakdown
HI A350 Pipeline (Ver 1) Segment#:4679

Resource Used	Unit Cost		Cost	
CB 240 & Tug	\$500.00	per Hour per Barge/Tug	\$18,000.00	1.96%
DB 2000	\$8,815.00	per Hour per Barge	\$317,340.00	34.62%
Decommissioning Crew	\$0.00	Calculated from tables	\$5,181.75	0.57%
Dive Boat	\$0.00	Calculated from tables	\$21,463.96	2.34%
Dive Serv - Basic	\$0.00	Calculated from tables	\$259,719.90	28.33%
Dive Serv - Suppl	\$0.00	Calculated from tables	\$129,900.98	14.17%



Enterprise Products Partners L.P.

Pipeline Decommission Cost Breakdown

HI A350 Pipeline (Ver 1) Segment#:4679

Task		Task Hours	Task Cost
Mobilize Dive Boat		17.10 18.56%	\$91,083.15 9.94%
Dive Boat	\$7,968.60		
Dive Serv - Basic	\$54,121.50		
Dive Serv - Suppl	\$27,069.30		
Decommissioning Crew	\$1,923.75		
Set Up Dive Boat		3.00 3.26%	\$15,979.50 1.74%
Dive Boat	\$1,398.00		
Dive Serv - Basic	\$9,495.00		
Dive Serv - Suppl	\$4,749.00		
Decommissioning Crew	\$337.50		
Rig Up Decomm Equipment		5.00 5.43%	\$26,632.50 2.91%
Dive Boat	\$2,330.00		
Dive Serv - Basic	\$15,825.00		
Dive Serv - Suppl	\$7,915.00		
Decommissioning Crew	\$562.50		
Pig & Flush Pipeline		1.86 2.02%	\$9,907.29 1.08%
Dive Serv - Basic	\$5,886.90		
Dive Serv - Suppl	\$2,944.38		
Dive Boat	\$866.76		
Decommissioning Crew	\$209.25		
Derig Decomm Equipment		2.00 2.17%	\$10,653.00 1.16%
Dive Boat	\$932.00		
Dive Serv - Basic	\$6,330.00		
Dive Serv - Suppl	\$3,166.00		
Decommissioning Crew	\$225.00		
Demob Dive Boat		17.10 18.56%	\$91,083.15 9.94%
Dive Boat	\$7,968.60		
Dive Serv - Basic	\$54,121.50		
Dive Serv - Suppl	\$27,069.30		
Decommissioning Crew	\$1,923.75		



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P. Pipeline Decommission Cost Breakdown

Remove Pipeline		36.00	39.08%	\$506,268.00	55.22%
DB 2000	\$317,340.00				
Dive Serv - Basic	\$113,940.00				
Dive Serv - Suppl	\$56,988.00				
CB 240 & Tug	\$18,000.00				
Total		82.06	89.09%	\$751,606.59	81.99%

HI A370 Pipeline



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.

Platform Salvage Option

HI A370 Pipeline (Ver 1)

This estimate includes only pipeline abandonment costs.

Estimated Decommissioning Gross Cost =	\$744,418
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Estimated Decommissioning Net Cost =	\$491,390
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Enterprise Products Partners L.P.

Basic Information

HI A370 Pipeline (Ver 1)

General Data

Platform: HI A370 Pipeline
Function:
Type:
Water Depth:
Pre 461H?: No
Year Installed:
Year Estimate Developed:
District:
Lease Number:
Account Code: TSB - 26058
Amortization: 1.00
Wells to P & A: 0
Pipelines to Abandon: 1
Estimate Complete?: Yes

Partner Data

Partner	Working Interest
1 Enterprise Products Partners L.P.	66.01%

Estimated Costs

	Gross Cost	Net Cost
Platform Removal:	\$0	\$0
Well Plugging & Abandonment:	\$0	\$0
Pipeline Abandonment:	\$744,418	\$491,390
Total Decommissioning Cost:	\$744,418	\$491,390



Enterprise Products Partners L.P.

Platform Information

HI A370 Pipeline (Ver 1)

Pile/Tendon Data

	Number	Outside Diameter	Wall Thickness	Grout Annulus	Grout Internal	Depth Below Mudline
Main:	0			No	No	
Skirt/Braced	0			No	No	
Anchor:	0					
Dolphin:	0					

Deck Dimensions

	Dimensions	Elevation
Upper:		
Middle:		
Lower:		

Conductors

Number of Slots:	0
Number Installed:	0
Outside Diameter:	
Wall Thickness:	
Number Slanted:	0

Jacket Data

	Weight (Tons)	With Piles	With Piles & Grout
Submerged:			
Dry:			
Jacket Installation Date:			
Jacket Contractor:			

Deck Data

Deck Lift Weight with Equipment:	
Number of Padeyes Required:	0
Deck Installation Date:	
Deck Contractor:	



Enterprise Products Partners L.P.

Platform Information

HI A370 Pipeline (Ver 1)

Equipment Lift Weights

Members to be Cut Data

Cargo Descriptions

Cargo Barge Size	Cargo Description
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Miscellaneous Data

Derrick Barge Anchors:	0
Assist Derrick Barge Anchors:	0
Tow Distance:	0.00
Provision for Misc. Work%:	15.00%
Weather Contingency%:	6.00%
Engineering%:	8.00%

Miscellaneous Costs

Consumables:	\$0.00
Waste Disposal:	\$0.00
Structure & Equipment Disposal:	\$0.00
Reef Donation:	\$0.00
Cost of Engineering:	\$0.00



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.

Platform Comments

HI A370 Pipeline (Ver 1)



Enterprise Products Partners L.P.

Pipeline Information

HI A370 Pipeline (Ver1) Segment#:4680

General Data

Water Depth:	350'
Origin / Terminus:	Origin
Opposite End Name:	HI A 330 HIOS
Opposite End Water Depth:	255'
Pipeline Operator:	Enterprise Products Partners L.P
Provision for Misc. Work%:	15.00%
Weather Contingency %:	6.00%

Pipeline Data

Outside Diameter: 24"	Wall Thickness:	Length: 43975'
Depth of Burial:	# Crossings:	Product:
Installation Date:	Weight Coating: No	J Tube: No
Riser?: No	Riser Guard?: No	

Comments



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.
Pipeline Decommission Task Information
HI A370 Pipeline (Ver 1) Segment#:4680

Task	Note	Contingency	Task Hours		Task Cost	
Mobilize Dive Boat		<input type="checkbox"/>	17.10	16.58%	\$91,083.15	12.24%
Set Up Dive Boat		<input checked="" type="checkbox"/>	3.00	2.91%	\$15,979.50	2.15%
Rig Up Decomm Equipment		<input checked="" type="checkbox"/>	5.00	4.85%	\$2,854.17	0.38%
Pig & Flush Pipeline		<input checked="" type="checkbox"/>	18.95	18.38%	\$10,817.30	1.45%
Derig Decomm Equipment		<input checked="" type="checkbox"/>	2.00	1.94%	\$1,141.67	0.15%
Demob Dive Boat		<input type="checkbox"/>	17.10	16.58%	\$91,083.15	12.24%
Remove Pipeline		<input checked="" type="checkbox"/>	28.00	27.16%	\$393,764.00	52.90%
Task Total			91.15	88.40%	\$606,722.94	81.50%
Misc. Work Provision (15.00%)			8.54	8.28%	\$63,683.50	8.55%
Weather Contingency (6.00%)			3.42	3.31%	\$25,473.40	3.42%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%
Storage / Scrapping					\$0.00	0.00%
Reef Donation					\$0.00	0.00%
Cost of Engineering (8.00%)					\$48,537.83	6.52%
Total:			103.11	100.00%	\$744,417.67	100.00%



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.
Pipeline Decommission Resources Breakdown
HI A370 Pipeline (Ver 1) Segment#:4680

Resource Used	Unit Cost		Cost	
CB 240 & Tug	\$500.00	per Hour per Barge/Tug	\$14,000.00	1.92%
DB 2000	\$8,815.00	per Hour per Barge	\$246,820.00	33.82%
Decommissioning Crew	\$0.00	Calculated from tables	\$7,104.38	0.97%
Dive Boat	\$0.00	Calculated from tables	\$17,335.20	2.38%
Dive Serv - Basic	\$0.00	Calculated from tables	\$206,358.00	28.27%
Dive Serv - Suppl	\$0.00	Calculated from tables	\$103,211.60	14.14%
Work Boat	\$0.00	Calculated from tables	\$11,893.76	1.63%



Enterprise Products Partners L.P.

Pipeline Decommission Cost Breakdown

HI A370 Pipeline (Ver 1) Segment#:4680

Task		Task Hours	Task Cost
Mobilize Dive Boat		17.10 16.58%	\$91,083.15 12.48%
Dive Boat	\$7,968.60		
Dive Serv - Basic	\$54,121.50		
Dive Serv - Suppl	\$27,069.30		
Decommissioning Crew	\$1,923.75		
Set Up Dive Boat		3.00 2.91%	\$15,979.50 2.19%
Dive Boat	\$1,398.00		
Dive Serv - Basic	\$9,495.00		
Dive Serv - Suppl	\$4,749.00		
Decommissioning Crew	\$337.50		
Rig Up Decomm Equipment		5.00 4.85%	\$2,854.17 0.39%
Work Boat	\$2,291.67		
Decommissioning Crew	\$562.50		
Pig & Flush Pipeline		18.95 18.38%	\$10,817.30 1.48%
Work Boat	\$8,685.42		
Decommissioning Crew	\$2,131.88		
Derig Decomm Equipment		2.00 1.94%	\$1,141.67 0.16%
Work Boat	\$916.67		
Decommissioning Crew	\$225.00		
Demob Dive Boat		17.10 16.58%	\$91,083.15 12.48%
Dive Boat	\$7,968.60		
Dive Serv - Basic	\$54,121.50		
Dive Serv - Suppl	\$27,069.30		
Decommissioning Crew	\$1,923.75		
Remove Pipeline		28.00 27.16%	\$393,764.00 53.95%
DB 2000	\$246,820.00		
Dive Serv - Basic	\$88,620.00		
Dive Serv - Suppl	\$44,324.00		
CB 240 & Tug	\$14,000.00		
Total		91.15 88.40%	\$606,722.94 83.13%

HI A573 HIOS



Enterprise Products Partners L.P.

Platform Salvage Option

HI A573 HIOS (Ver 1)

High Island Block A573 has one platform that is operated by Enterprise Products Partners L.P. The platform will be removed with a 2000-ton derrick barge. All production equipment will be flushed and purged of any hydrocarbons. The equipment that will be removed by the derrick barge will be cut free of the platform. Also the pipelines will be flushed, cleaned, plugged and left in-situ. (See #12 below.)

High Island A573 HIOS is a 4-pile manifold platform installed in 1979 in 340' water depth. One 48-hour turtle watch operation conducted by the National Marine Fisheries service will be needed. The top deck equipment, and deck will be placed on a 240' x 72' cargo barge. Piles will be explosively severed and the jacket will be towed to shallow water, cut into manageable pieces and placed on additional 240' x 72' cargo barges. The decks, facilities and jacket will be taken to shore and scrapped. Side Scan Sonar and Divers will perform a bottom sweep to verify the site is clear.

This estimate is based on the following assumptions:

1. All decks and jackets and associated equipment are taken to shore and scrapped.
2. Removal Contractor is responsible for transport and disposal of decks, jackets, and associated equipment.
3. No salvage or resale value has been considered for the structure or equipment.
4. One derrick mobilization/demobilization cost is included for each block.
5. Mobilization times are estimated from the Eugene Island sea buoy.
6. No dockside mobilization or demobilization is included, construction barge spreads are assumed to be readily available in the Gulf of Mexico.
7. All work will be performed during the summer work season.
8. No allowances have been made for named tropical storm downtime.
9. The current guidelines for the use of explosives are assumed.
10. No allowances have been made for the presence of sea turtles or marine mammals.
11. All NORM, NOW, and industrial waste are removed from the platforms prior to decommissioning.
12. All pipelines are abandoned-in-place.
13. Tube Turns and 100' of pipeline are removed at each end of pipelines.
14. Tube Turns and pipelines are buried a minimum of 5ft. at the base of the platform.
15. All pipeline ends can be sealed using mechanical-type plugs. No provisions are made for more stringent environmental or safety regulations.
16. Site clearance and verification is in accordance with NTL 98-26.
17. Hourly rates for construction and diving spreads are developed from offshore contractors published rates.



Enterprise Products Partners L.P.

Platform Salvage Option

HI A573 HIOS (Ver 1)

- 18. Engineering & Project Management cost 8% (company or other).
- 19. Work Contingency 15%
- 20. Weather Contingency 6%

The following data will be assumed based on previous estimates developed and work experience:

Pile OD

Deck Weights

Jacket Weights

Grout Weights

Equipment Weights

Estimated Decommissioning Gross Cost = \$10,420,810

Estimated Decommissioning Net Cost = \$10,420,810



Enterprise Products Partners L.P.

Basic Information

HI A573 HIOS (Ver 1)

General Data

Platform:	HI A573 HIOS
Function:	DRILL/MANIFOLD
Type:	Steel
Water Depth:	340'
Pre 461H?:	Yes
Year Installed:	1979
Year Estimate Developed:	
District:	Gulf of Mexico
Lease Number:	
Account Code:	TSB - 26058
Amortization:	1.00
# Wells to P & A:	0
# Pipelines to Abandon:	1
Estimate Complete?:	Yes

Partner Data

Partner	Working Interest
1 Enterprise Products Partners L.P.	100.00%

Estimated Costs

	Gross Cost	Net Cost
Platform Removal:	\$8,870,271	\$8,870,271
Well Plugging & Abandonment:	\$0	\$0
Pipeline Abandonment:	\$1,550,534	\$1,550,534
Total Decommissioning Cost:	\$10,420,810	\$10,420,810



Enterprise Products Partners L.P.

Platform Information

HI A573 HIOS (Ver 1)

Pile/Tendon Data

	Number	Outside Diameter	Wall Thickness	Grout Annulus	Grout Internal	Depth Below Mudline
Main:	4	36"	1.5"	No	No	
Skirt/Braced	4	36"	1.5"	No	No	
Anchor:	0					
Dolphin:	0					

Deck Dimensions

	Dimensions	Elevation
Upper:	60X60	92
Middle:	60X30	73
Lower:	80X80	48

Conductors

Number of Slots:	0
Number Installed:	0
Outside Diameter:	
Wall Thickness:	
Number Slanted:	0

Jacket Data

	Weight (Tons)	With Piles	With Piles & Grout
Submerged:			
Dry:	1901.00	✓	✓
Jacket Installation Date:			
Jacket Contractor:			

Deck Data

Deck Lift Weight with Equipment:	300 Tons
Number of Padeyes Required:	0
Deck Installation Date:	3/3/97
Deck Contractor:	



Enterprise Products Partners L.P.

Platform Information

HI A573 HIOS (Ver 1)

Equipment Lift Weights

Equipment	Weight (Tons)
Boom	10.00
Equipment	200.00
Heliport	20.00

Members to be Cut Data

Top Members	
Size	Qty
16.00	32.00
40.00	16.00

Cargo Descriptions

Cargo Barge Size	Cargo Description	
CB 240 x 72	Deck > 500T	Equipment
CB 240 x 72	Jkt 300-700T	
CB 240 x 72	Jkt 300-700T	
CB 240 x 72	Jkt 300-700T	
CB 240 x 72	Jkt 300-700T	

Miscellaneous Data

Derrick Barge Anchors:	8
Assist Derrick Barge Anchors:	0
Tow Distance:	0.00
Provision for Misc. Work%:	15.00%
Weather Contingency%:	6.00%
Engineering%:	8.00%

Miscellaneous Costs

Consumables:	\$0.00
Waste Disposal:	\$0.00
Structure & Equipment Disposal:	\$0.00
Reef Donation:	\$0.00
Cost of Engineering:	\$572,402.31



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.

Platform Comments

HI A573 HIOS (Ver 1)

Assumed the following:

Jacket Weights, Deck Weights, Pile Sizes, Grout Weights, Equipment Weights,
Deck(s) Sizes



Enterprise Products Partners L.P. Platform Decommission Task Information HI A573 HIOS (Ver 1)

Task	Note	Contingency	Task Hours		Task Cost	
Fab Explosive Charges	Includes four (4) skirt piles	<input type="checkbox"/>	0.00	0.00%	\$20,000.00	0.23%
Platform Removal Preparation		<input type="checkbox"/>	504.00	16.35%	\$428,400.00	4.83%
Mobilize Work Boat		<input type="checkbox"/>	20.10	0.65%	\$9,567.60	0.11%
NMFS Marine Observation		<input type="checkbox"/>	48.00	1.56%	\$22,848.00	0.26%
Mobilize DB 2000		<input type="checkbox"/>	24.43	0.79%	\$304,833.47	3.44%
Mobilize CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$35,100.00	0.40%
Mobilize CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$35,100.00	0.40%
Mobilize CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$35,100.00	0.40%
Mobilize CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$35,100.00	0.40%
Mobilize CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$35,100.00	0.40%
Route Survey to Reef Site	Shallow water for cutting jacket	<input type="checkbox"/>	48.00	1.56%	\$25,152.00	0.28%
Demob Work Boat		<input type="checkbox"/>	20.10	0.65%	\$7,035.00	0.08%
Setup Derrick Barge		<input checked="" type="checkbox"/>	6.75	0.22%	\$83,349.00	0.94%
Cut Deck/Equip/Misc		<input checked="" type="checkbox"/>	3.85	0.12%	\$49,464.80	0.56%
Remove Equipment		<input checked="" type="checkbox"/>	3.00	0.10%	\$38,544.00	0.43%
Remove 4 Pile Deck		<input checked="" type="checkbox"/>	9.35	0.30%	\$120,128.80	1.35%
Demob CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$21,100.00	0.24%
Jet/Airlift Pile Mud Plug		<input checked="" type="checkbox"/>	16.00	0.52%	\$197,568.00	2.23%
Jet/Air Skrt Pile Mud Plg		<input checked="" type="checkbox"/>	30.80	1.00%	\$380,318.40	4.29%
Standby for Daylight Det.		<input checked="" type="checkbox"/>	8.00	0.26%	\$98,784.00	1.11%
Set Charges in Skirt Piles		<input checked="" type="checkbox"/>	10.50	0.34%	\$129,654.00	1.46%
Pre/Post Detonat'n Survey		<input checked="" type="checkbox"/>	1.00	0.03%	\$18,598.00	0.21%
Sever Piles- Explosive		<input checked="" type="checkbox"/>	2.92	0.09%	\$36,056.16	0.41%
Sever Piles- Explosive	Skirt Piles	<input checked="" type="checkbox"/>	1.92	0.06%	\$23,708.16	0.27%
Install Closure Plates		<input checked="" type="checkbox"/>	5.00	0.16%	\$60,460.00	0.68%
Deballast Piles or Jkt Lg		<input checked="" type="checkbox"/>	5.00	0.16%	\$60,460.00	0.68%
Lift/Secure Jkt for Tow		<input checked="" type="checkbox"/>	6.00	0.19%	\$75,552.00	0.85%
Tow Jckt to Shallow Water	Tow to 232' water depth	<input checked="" type="checkbox"/>	10.00	0.32%	\$125,920.00	1.42%
Setup Derrick Barge		<input checked="" type="checkbox"/>	6.75	0.22%	\$84,996.00	0.96%
Cut Jacket	Cut at -88' elev.	<input checked="" type="checkbox"/>	49.33	1.60%	\$621,163.38	7.00%
Remove Jacket - Meth 1		<input checked="" type="checkbox"/>	13.75	0.45%	\$173,140.00	1.95%
Demob CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$21,100.00	0.24%
Install Closure Plates		<input checked="" type="checkbox"/>	5.00	0.16%	\$60,460.00	0.68%
Deballast Piles or Jkt Lg		<input checked="" type="checkbox"/>	5.00	0.16%	\$60,460.00	0.68%
Lift/Secure Jkt for Tow		<input checked="" type="checkbox"/>	6.00	0.19%	\$75,552.00	0.85%
Tow Jckt to Shallow Water	Tow to 158' water depth	<input checked="" type="checkbox"/>	8.00	0.26%	\$100,736.00	1.14%
Setup Derrick Barge		<input checked="" type="checkbox"/>	6.75	0.22%	\$84,996.00	0.96%
Cut Jacket	Cut at -168' elev.	<input checked="" type="checkbox"/>	49.33	1.60%	\$621,163.38	7.00%



Enterprise Products Partners L.P.

Platform Decommission Task Information

HI A573 HIOS (Ver 1)

Task	Note	Contingency	Task Hours		Task Cost	
Remove Jacket - Meth 2		<input checked="" type="checkbox"/>	26.50	0.86%	\$333,688.00	3.76%
Demob CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$21,100.00	0.24%
Install Closure Plates		<input checked="" type="checkbox"/>	5.00	0.16%	\$60,460.00	0.68%
Deballast Piles or Jkt Lg		<input checked="" type="checkbox"/>	5.00	0.16%	\$60,460.00	0.68%
Lift/Secure Jkt for Tow		<input checked="" type="checkbox"/>	6.00	0.19%	\$75,552.00	0.85%
Tow Jckt to Shallow Water	Tow to 70' water depth	<input checked="" type="checkbox"/>	6.00	0.19%	\$75,552.00	0.85%
Setup Derrick Barge		<input checked="" type="checkbox"/>	6.75	0.22%	\$84,996.00	0.96%
Cut Jacket	Cut at -252' elev.	<input checked="" type="checkbox"/>	49.33	1.60%	\$621,163.38	7.00%
Remove Jacket - Meth 2		<input checked="" type="checkbox"/>	26.50	0.86%	\$333,688.00	3.76%
Demob CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$21,100.00	0.24%
Remove Jacket - Meth 2	Removal of base section	<input checked="" type="checkbox"/>	26.50	0.86%	\$333,688.00	3.76%
Demob CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$21,100.00	0.24%
Pick Up DB Anchors		<input checked="" type="checkbox"/>	6.75	0.22%	\$81,621.00	0.92%
Demob DB 2000		<input type="checkbox"/>	24.43	0.79%	\$301,657.57	3.40%
Site Clearance - with Divers	Does not include debris removal	<input type="checkbox"/>	6.00	0.19%	\$116,754.00	1.32%
Offload CB 240		<input type="checkbox"/>	1440.00	46.71%	\$195,680.00	2.21%
Task Total			2991.39	97.04%	\$7,155,028.10	80.66%
Misc. Work Provision (15.00%)			65.15	2.11%	\$816,315.10	9.20%
Weather Contingency (6.00%)			26.06	0.85%	\$326,526.00	3.68%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%
Storage / Scrapping					\$0.00	0.00%
Reef Donation					\$0.00	0.00%
Cost of Engineering (8.00%)					\$572,402.30	6.45%
Total:			3082.60	100.00%	\$8,870,271.50	100.00%



Enterprise Products Partners L.P.
Platform Decommission Resources Breakdown
HI A573 HIOS (Ver 1)

Resource Used	Unit Cost		Cost	
Cargo Barge 240	\$2,928.00	per Day per Barge	\$175,680.00	1.98%
CB 240 & Tug	\$500.00	per Hour per Barge/Tug	\$370,845.00	4.18%
CB Damage Deduct	\$20,000.00	per Cargo Barge	\$20,000.00	0.23%
Decomm Platform	\$0.00	Calculated from tables	\$252,000.00	2.84%
Derrick Barge 2000	\$8,815.00	per Hour per barge	\$4,259,319.91	48.02%
Dive Boat	\$466.00	per Hour	\$2,796.00	0.03%
Dive Serv - Basic	\$0.00	Calculated from tables	\$1,586,266.37	17.88%
Dive Serv - Suppl	\$0.00	Calculated from tables	\$56,988.00	0.64%
Expl Charge - Piling	\$0.00	per Inch of Outside Diam	\$20,000.00	0.23%
Expl Technician	\$130.00	per Hour	\$15,407.60	0.17%
Helicopter Trips	\$6,250.00	per Round Trip	\$18,750.00	0.21%
NMFS Observers (2)	\$126.00	per Hour	\$20,435.94	0.23%
Pipeline Survey	\$112.00	per Hour	\$59,493.28	0.67%
Rig Up CB 240	\$14,000.00	per Barge	\$70,000.00	0.79%
Side Scan Sonar	\$62.00	per Hour	\$2,976.00	0.03%
Work Boat	\$350.00	per Hour	\$224,070.00	2.53%



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A573 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Fab Explosive Charges	0.00	0.00%	\$20,000.00	0.23%
Expl Charge - Piling			\$10,000.00	
Expl Charge - Piling			\$10,000.00	
Platform Removal Preparation	504.00	16.35%	\$428,400.00	4.83%
Decomm Platform			\$252,000.00	
Work Boat			\$176,400.00	
Mobilize Work Boat	20.10	0.65%	\$9,567.60	0.11%
Work Boat			\$7,035.00	
NMFS Observers (2)			\$2,532.60	
NMFS Marine Observation	48.00	1.56%	\$22,848.00	0.26%
Work Boat			\$16,800.00	
NMFS Observers (2)			\$6,048.00	
Mobilize DB 2000	24.43	0.79%	\$304,833.47	3.44%
Derrick Barge 2000			\$215,350.45	
Dive Serv - Basic			\$77,320.95	
Pipeline Survey			\$2,736.16	
Expl Technician			\$3,175.90	
Helicopter Trips			\$6,250.00	
Mobilize CB 240 & Tug	42.20	1.37%	\$35,100.00	0.40%
CB 240 & Tug			\$21,100.00	
Rig Up CB 240			\$14,000.00	
Mobilize CB 240 & Tug	42.20	1.37%	\$35,100.00	0.40%
CB 240 & Tug			\$21,100.00	
Rig Up CB 240			\$14,000.00	
Mobilize CB 240 & Tug	42.20	1.37%	\$35,100.00	0.40%
CB 240 & Tug			\$21,100.00	
Rig Up CB 240			\$14,000.00	



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
HI A573 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Mobilize CB 240 & Tug	42.20	1.37%	\$35,100.00	0.40%
CB 240 & Tug			\$21,100.00	
Rig Up CB 240			\$14,000.00	
Mobilize CB 240 & Tug	42.20	1.37%	\$35,100.00	0.40%
CB 240 & Tug			\$21,100.00	
Rig Up CB 240			\$14,000.00	
Route Survey to Reef Site	48.00	1.56%	\$25,152.00	0.28%
Pipeline Survey			\$5,376.00	
Side Scan Sonar			\$2,976.00	
Work Boat			\$16,800.00	
Demob Work Boat	20.10	0.65%	\$7,035.00	0.08%
Work Boat			\$7,035.00	
Setup Derrick Barge	6.75	0.22%	\$83,349.00	0.94%
Derrick Barge 2000			\$59,501.25	
Dive Serv - Basic			\$21,363.75	
Pipeline Survey			\$756.00	
Expl Technician			\$877.50	
NMFS Observers (2)			\$850.50	
Cut Deck/Equip/Misc	3.85	0.12%	\$49,464.80	0.56%
Derrick Barge 2000			\$33,937.75	
Dive Serv - Basic			\$12,185.25	
Pipeline Survey			\$431.20	
Expl Technician			\$500.50	
NMFS Observers (2)			\$485.10	
CB 240 & Tug			\$1,925.00	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A573 HIOS (Ver 1)

		Task Hours		Task Cost	
Task					
Remove Equipment		3.00	0.10%	\$38,544.00	0.43%
	Derrick Barge 2000			\$26,445.00	
	Dive Serv - Basic			\$9,495.00	
	Pipeline Survey			\$336.00	
	Expl Technician			\$390.00	
	NMFS Observers (2)			\$378.00	
	CB 240 & Tug			\$1,500.00	
Remove 4 Pile Deck		9.35	0.30%	\$120,128.80	1.35%
	Derrick Barge 2000			\$82,420.25	
	Dive Serv - Basic			\$29,592.75	
	Pipeline Survey			\$1,047.20	
	Expl Technician			\$1,215.50	
	NMFS Observers (2)			\$1,178.10	
	CB 240 & Tug			\$4,675.00	
Demob CB 240 & Tug		42.20	1.37%	\$21,100.00	0.24%
	CB 240 & Tug			\$21,100.00	
Jet/Airlift Pile Mud Plug		16.00	0.52%	\$197,568.00	2.23%
	Derrick Barge 2000			\$141,040.00	
	Dive Serv - Basic			\$50,640.00	
	Pipeline Survey			\$1,792.00	
	Expl Technician			\$2,080.00	
	NMFS Observers (2)			\$2,016.00	
Jet/Air Skrt Pile Mud Plg		30.80	1.00%	\$380,318.40	4.29%
	Derrick Barge 2000			\$271,502.00	
	Dive Serv - Basic			\$97,482.00	
	Pipeline Survey			\$3,449.60	
	Expl Technician			\$4,004.00	
	NMFS Observers (2)			\$3,880.80	



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
HI A573 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Standby for Daylight Det.	8.00	0.26%	\$98,784.00	1.11%
Derrick Barge 2000			\$70,520.00	
Dive Serv - Basic			\$25,320.00	
Pipeline Survey			\$896.00	
Expl Technician			\$1,040.00	
NMFS Observers (2)			\$1,008.00	
Set Charges in Skirt Piles	10.50	0.34%	\$129,654.00	1.46%
Derrick Barge 2000			\$92,557.50	
Dive Serv - Basic			\$33,232.50	
Pipeline Survey			\$1,176.00	
Expl Technician			\$1,365.00	
NMFS Observers (2)			\$1,323.00	
Pre/Post Detonat'n Survey	1.00	0.03%	\$18,598.00	0.21%
Derrick Barge 2000			\$8,815.00	
Pipeline Survey			\$112.00	
Dive Serv - Basic			\$3,165.00	
Expl Technician			\$130.00	
NMFS Observers (2)			\$126.00	
Helicopter Trips			\$6,250.00	
Sever Piles- Explosive	2.92	0.09%	\$36,056.16	0.41%
Derrick Barge 2000			\$25,739.80	
Dive Serv - Basic			\$9,241.80	
Pipeline Survey			\$327.04	
Expl Technician			\$379.60	
NMFS Observers (2)			\$367.92	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A573 HIOS (Ver 1)

		Task Hours		Task Cost	
Task					
Sever Piles- Explosive		1.92	0.06%	\$23,708.16	0.27%
Derrick Barge 2000	\$16,924.80				
Dive Serv - Basic	\$6,076.80				
Pipeline Survey	\$215.04				
Expl Technician	\$249.60				
NMFS Observers (2)	\$241.92				
Install Closure Plates		5.00	0.16%	\$60,460.00	0.68%
Derrick Barge 2000	\$44,075.00				
Dive Serv - Basic	\$15,825.00				
Pipeline Survey	\$560.00				
Deballast Piles or Jkt Lg		5.00	0.16%	\$60,460.00	0.68%
Derrick Barge 2000	\$44,075.00				
Dive Serv - Basic	\$15,825.00				
Pipeline Survey	\$560.00				
Lift/Secure Jkt for Tow		6.00	0.19%	\$75,552.00	0.85%
Derrick Barge 2000	\$52,890.00				
Dive Serv - Basic	\$18,990.00				
Pipeline Survey	\$672.00				
CB 240 & Tug	\$3,000.00				
Tow Jckt to Shallow Water		10.00	0.32%	\$125,920.00	1.42%
Derrick Barge 2000	\$88,150.00				
Dive Serv - Basic	\$31,650.00				
Pipeline Survey	\$1,120.00				
CB 240 & Tug	\$5,000.00				
Setup Derrick Barge		6.75	0.22%	\$84,996.00	0.96%
Derrick Barge 2000	\$59,501.25				
Dive Serv - Basic	\$21,363.75				
Pipeline Survey	\$756.00				
CB 240 & Tug	\$3,375.00				



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
HI A573 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Cut Jacket	49.33	1.60%	\$621,163.38	7.00%
Derrick Barge 2000			\$434,843.97	
Dive Serv - Basic			\$156,129.45	
Pipeline Survey			\$5,524.96	
CB 240 & Tug			\$24,665.00	
Remove Jacket - Meth 1	13.75	0.45%	\$173,140.00	1.95%
Derrick Barge 2000			\$121,206.25	
Dive Serv - Basic			\$43,518.75	
Pipeline Survey			\$1,540.00	
CB 240 & Tug			\$6,875.00	
Demob CB 240 & Tug	42.20	1.37%	\$21,100.00	0.24%
CB 240 & Tug			\$21,100.00	
Install Closure Plates	5.00	0.16%	\$60,460.00	0.68%
Derrick Barge 2000			\$44,075.00	
Dive Serv - Basic			\$15,825.00	
Pipeline Survey			\$560.00	
Deballast Piles or Jkt Lg	5.00	0.16%	\$60,460.00	0.68%
Derrick Barge 2000			\$44,075.00	
Dive Serv - Basic			\$15,825.00	
Pipeline Survey			\$560.00	
Lift/Secure Jkt for Tow	6.00	0.19%	\$75,552.00	0.85%
Derrick Barge 2000			\$52,890.00	
Dive Serv - Basic			\$18,990.00	
Pipeline Survey			\$672.00	
CB 240 & Tug			\$3,000.00	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A573 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Tow Jckt to Shallow Water	8.00	0.26%	\$100,736.00	1.14%
Derrick Barge 2000			\$70,520.00	
Dive Serv - Basic			\$25,320.00	
Pipeline Survey			\$896.00	
CB 240 & Tug			\$4,000.00	
Setup Derrick Barge	6.75	0.22%	\$84,996.00	0.96%
Derrick Barge 2000			\$59,501.25	
Dive Serv - Basic			\$21,363.75	
Pipeline Survey			\$756.00	
CB 240 & Tug			\$3,375.00	
Cut Jacket	49.33	1.60%	\$621,163.38	7.00%
Derrick Barge 2000			\$434,843.97	
Dive Serv - Basic			\$156,129.45	
Pipeline Survey			\$5,524.96	
CB 240 & Tug			\$24,665.00	
Remove Jacket - Meth 2	26.50	0.86%	\$333,688.00	3.76%
Derrick Barge 2000			\$233,597.50	
Dive Serv - Basic			\$83,872.50	
Pipeline Survey			\$2,968.00	
CB 240 & Tug			\$13,250.00	
Demob CB 240 & Tug	42.20	1.37%	\$21,100.00	0.24%
CB 240 & Tug			\$21,100.00	
Install Closure Plates	5.00	0.16%	\$60,460.00	0.68%
Derrick Barge 2000			\$44,075.00	
Dive Serv - Basic			\$15,825.00	
Pipeline Survey			\$560.00	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A573 HIOS (Ver 1)

		Task Hours		Task Cost	
Task					
Deballast Piles or Jkt Lg		5.00	0.16%	\$60,460.00	0.68%
Derrick Barge 2000	\$44,075.00				
Dive Serv - Basic	\$15,825.00				
Pipeline Survey	\$560.00				
Lift/Secure Jkt for Tow		6.00	0.19%	\$75,552.00	0.85%
Derrick Barge 2000	\$52,890.00				
Dive Serv - Basic	\$18,990.00				
Pipeline Survey	\$672.00				
CB 240 & Tug	\$3,000.00				
Tow Jckt to Shallow Water		6.00	0.19%	\$75,552.00	0.85%
Derrick Barge 2000	\$52,890.00				
Dive Serv - Basic	\$18,990.00				
Pipeline Survey	\$672.00				
CB 240 & Tug	\$3,000.00				
Setup Derrick Barge		6.75	0.22%	\$84,996.00	0.96%
Derrick Barge 2000	\$59,501.25				
Dive Serv - Basic	\$21,363.75				
Pipeline Survey	\$756.00				
CB 240 & Tug	\$3,375.00				
Cut Jacket		49.33	1.60%	\$621,163.38	7.00%
Derrick Barge 2000	\$434,843.97				
Dive Serv - Basic	\$156,129.45				
Pipeline Survey	\$5,524.96				
CB 240 & Tug	\$24,665.00				
Remove Jacket - Meth 2		26.50	0.86%	\$333,688.00	3.76%
Derrick Barge 2000	\$233,597.50				
Dive Serv - Basic	\$83,872.50				
Pipeline Survey	\$2,968.00				
CB 240 & Tug	\$13,250.00				



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A573 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Demob CB 240 & Tug	42.20	1.37%	\$21,100.00	0.24%
CB 240 & Tug			\$21,100.00	
Remove Jacket - Meth 2	26.50	0.86%	\$333,688.00	3.76%
Derrick Barge 2000			\$233,597.50	
Dive Serv - Basic			\$83,872.50	
Pipeline Survey			\$2,968.00	
CB 240 & Tug			\$13,250.00	
Demob CB 240 & Tug	42.20	1.37%	\$21,100.00	0.24%
CB 240 & Tug			\$21,100.00	
Pick Up DB Anchors	6.75	0.22%	\$81,621.00	0.92%
Derrick Barge 2000			\$59,501.25	
Dive Serv - Basic			\$21,363.75	
Pipeline Survey			\$756.00	
Demob DB 2000	24.43	0.79%	\$301,657.57	3.40%
Derrick Barge 2000			\$215,350.45	
Dive Serv - Basic			\$77,320.95	
Pipeline Survey			\$2,736.16	
Helicopter Trips			\$6,250.00	
Site Clearance - with Divers	6.00	0.19%	\$116,754.00	1.32%
Dive Boat			\$2,796.00	
Dive Serv - Basic			\$56,970.00	
Dive Serv - Suppl			\$56,988.00	
Offload CB 240	1440.00	46.71%	\$195,680.00	2.21%
Cargo Barge 240			\$175,680.00	
CB Damage Deduct			\$20,000.00	
Total	2991.39	97.04%	\$7,155,028.10	80.66%



Enterprise Products Partners L.P.

Pipeline Information

HI A573 HIOS (Ver1) Segment#:4591

General Data

Water Depth:	340'
Origin / Terminus:	Origin
Opposite End Name:	HI 264
Opposite End Water Depth:	152'
Pipeline Operator:	Enterprise Products Partners L.P
Provision for Misc. Work%:	15.00%
Weather Contingency %:	6.00%

Pipeline Data

Outside Diameter:	30"	Wall Thickness:		Length:	216480'
Depth of Burial:		# Crossings:		Product:	Gas/Cond
Installation Date:		Weight Coating:	No	J Tube:	No
Riser?:	No	Riser Guard?:	No		

Comments



Enterprise Products Partners L.P.

Pipeline Decommission Task Information

HI A573 HIOS (Ver 1) Segment#:4591

Task	Note	Contingency	Task Hours		Task Cost	
Mobilize Work Boat		<input checked="" type="checkbox"/>	20.10	4.84%	\$11,473.75	0.74%
Rig Up Decomm Equipment		<input checked="" type="checkbox"/>	5.00	1.20%	\$2,854.17	0.18%
Pig & Flush Pipeline		<input checked="" type="checkbox"/>	136.40	32.84%	\$77,861.66	5.02%
Derig Decomm Equipment		<input checked="" type="checkbox"/>	2.00	0.48%	\$1,141.67	0.07%
Demob Work Boat		<input checked="" type="checkbox"/>	20.10	4.84%	\$11,473.75	0.74%
Mobilize Dive Boat		<input type="checkbox"/>	20.10	4.84%	\$107,062.65	6.90%
Set Up Dive Boat		<input checked="" type="checkbox"/>	3.00	0.72%	\$15,979.50	1.03%
Expose Pipeline		<input checked="" type="checkbox"/>	11.55	2.78%	\$61,521.08	3.97%
Cut & Plug Pipeline		<input checked="" type="checkbox"/>	11.55	2.78%	\$61,521.08	3.97%
Cut Pipeline Riser		<input checked="" type="checkbox"/>	7.70	1.85%	\$41,014.05	2.65%
Remove Tube Turn		<input checked="" type="checkbox"/>	7.70	1.85%	\$41,014.05	2.65%
Bury Pipeline		<input checked="" type="checkbox"/>	7.70	1.85%	\$41,014.05	2.65%
Set Up Dive Boat		<input checked="" type="checkbox"/>	3.00	0.72%	\$15,979.50	1.03%
Expose Pipeline		<input checked="" type="checkbox"/>	11.55	2.78%	\$61,521.08	3.97%
Cut & Plug Pipeline		<input checked="" type="checkbox"/>	11.55	2.78%	\$61,521.08	3.97%
Cut Pipeline Riser		<input checked="" type="checkbox"/>	7.70	1.85%	\$41,014.05	2.65%
Remove Tube Turn		<input checked="" type="checkbox"/>	7.70	1.85%	\$41,014.05	2.65%
Bury Pipeline		<input checked="" type="checkbox"/>	7.70	1.85%	\$41,014.05	2.65%
Demob Dive Boat		<input type="checkbox"/>	20.10	4.84%	\$107,062.65	6.90%
Remove Pipeline	Remove 100' of Pipeline from Tube Turn at both ends	<input checked="" type="checkbox"/>	28.00	6.74%	\$393,764.00	25.40%
Task Total			350.20	84.32%	\$1,236,821.92	79.77%
Misc. Work Provision (15.00%)			46.50	11.20%	\$153,404.50	9.89%
Weather Contingency (6.00%)			18.60	4.48%	\$61,361.80	3.96%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%
Storage / Scrapping					\$0.00	0.00%
Reef Donation					\$0.00	0.00%
Cost of Engineering (8.00%)					\$98,945.75	6.38%
Total:			415.30	100.00%	\$1,550,533.96	100.00%



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.
Pipeline Decommission Resources Breakdown
HI A573 HIOS (Ver 1) Segment#:4591

Resource Used	Unit Cost		Cost	
CB 240 & Tug	\$500.00	per Hour per Barge/Tug	\$14,000.00	0.91%
DB 2000	\$8,815.00	per Hour per Barge	\$246,820.00	16.10%
Decommissioning Crew	\$0.00	Calculated from tables	\$36,247.52	2.36%
Dive Boat	\$0.00	Calculated from tables	\$64,587.60	4.21%
Dive Serv - Basic	\$0.00	Calculated from tables	\$527,289.00	34.39%
Dive Serv - Suppl	\$0.00	Calculated from tables	\$263,727.80	17.20%
Manual Calculation	\$0.00	Independently Calculated	\$0.00	0.00%
Work Boat	\$0.00	Calculated from tables	\$84,150.00	5.49%



Enterprise Products Partners L.P.

Pipeline Decommission Cost Breakdown

HI A573 HIOS (Ver 1) Segment#:4591

Task		Task Hours		Task Cost	
Mobilize Work Boat		20.10	4.84%	\$11,473.75	0.75%
Work Boat	\$9,212.50				
Decommissioning Crew	\$2,261.25				
Rig Up Decomm Equipment		5.00	1.20%	\$2,854.17	0.19%
Work Boat	\$2,291.67				
Decommissioning Crew	\$562.50				
Pig & Flush Pipeline		136.40	32.84%	\$77,861.66	5.08%
Work Boat	\$62,516.66				
Decommissioning Crew	\$15,345.00				
Derig Decomm Equipment		2.00	0.48%	\$1,141.67	0.07%
Work Boat	\$916.67				
Decommissioning Crew	\$225.00				
Demob Work Boat		20.10	4.84%	\$11,473.75	0.75%
Work Boat	\$9,212.50				
Decommissioning Crew	\$2,261.25				
Mobilize Dive Boat		20.10	4.84%	\$107,062.65	6.98%
Dive Boat	\$9,366.60				
Dive Serv - Basic	\$63,616.50				
Dive Serv - Suppl	\$31,818.30				
Decommissioning Crew	\$2,261.25				
Set Up Dive Boat		3.00	0.72%	\$15,979.50	1.04%
Dive Boat	\$1,398.00				
Dive Serv - Basic	\$9,495.00				
Dive Serv - Suppl	\$4,749.00				
Decommissioning Crew	\$337.50				
Expose Pipeline		11.55	2.78%	\$61,521.08	4.01%
Dive Boat	\$5,382.30				
Dive Serv - Basic	\$36,555.75				
Dive Serv - Suppl	\$18,283.65				
Decommissioning Crew	\$1,299.38				



Enterprise Products Partners L.P. Pipeline Decommission Cost Breakdown

Cut & Plug Pipeline		11.55	2.78%	\$61,521.08	4.01%
Dive Boat	\$5,382.30				
Dive Serv - Basic	\$36,555.75				
Dive Serv - Suppl	\$18,283.65				
Decommissioning Crew	\$1,299.38				
Cut Pipeline Riser		7.70	1.85%	\$41,014.05	2.67%
Dive Boat	\$3,588.20				
Dive Serv - Basic	\$24,370.50				
Dive Serv - Suppl	\$12,189.10				
Decommissioning Crew	\$866.25				
Remove Tube Turn		7.70	1.85%	\$41,014.05	2.67%
Dive Boat	\$3,588.20				
Dive Serv - Basic	\$24,370.50				
Dive Serv - Suppl	\$12,189.10				
Decommissioning Crew	\$866.25				
Manual Calculation	\$0.00				
Bury Pipeline		7.70	1.85%	\$41,014.05	2.67%
Dive Boat	\$3,588.20				
Dive Serv - Basic	\$24,370.50				
Dive Serv - Suppl	\$12,189.10				
Decommissioning Crew	\$866.25				
Set Up Dive Boat		3.00	0.72%	\$15,979.50	1.04%
Dive Boat	\$1,398.00				
Dive Serv - Basic	\$9,495.00				
Dive Serv - Suppl	\$4,749.00				
Decommissioning Crew	\$337.50				
Expose Pipeline		11.55	2.78%	\$61,521.08	4.01%
Dive Boat	\$5,382.30				
Dive Serv - Basic	\$36,555.75				
Dive Serv - Suppl	\$18,283.65				
Decommissioning Crew	\$1,299.38				



Enterprise Products Partners L.P. Pipeline Decommission Cost Breakdown

Cut & Plug Pipeline		11.55	2.78%	\$61,521.08	4.01%
Dive Boat	\$5,382.30				
Dive Serv - Basic	\$36,555.75				
Dive Serv - Suppl	\$18,283.65				
Decommissioning Crew	\$1,299.38				
Cut Pipeline Riser		7.70	1.85%	\$41,014.05	2.67%
Dive Boat	\$3,588.20				
Dive Serv - Basic	\$24,370.50				
Dive Serv - Suppl	\$12,189.10				
Decommissioning Crew	\$866.25				
Remove Tube Turn		7.70	1.85%	\$41,014.05	2.67%
Dive Boat	\$3,588.20				
Dive Serv - Basic	\$24,370.50				
Dive Serv - Suppl	\$12,189.10				
Decommissioning Crew	\$866.25				
Bury Pipeline		7.70	1.85%	\$41,014.05	2.67%
Dive Boat	\$3,588.20				
Dive Serv - Basic	\$24,370.50				
Dive Serv - Suppl	\$12,189.10				
Decommissioning Crew	\$866.25				
Demob Dive Boat		20.10	4.84%	\$107,062.65	6.98%
Dive Boat	\$9,366.60				
Dive Serv - Basic	\$63,616.50				
Dive Serv - Suppl	\$31,818.30				
Decommissioning Crew	\$2,261.25				
Remove Pipeline		28.00	6.74%	\$393,764.00	25.68%
DB 2000	\$246,820.00				
Dive Serv - Basic	\$88,620.00				
Dive Serv - Suppl	\$44,324.00				
CB 240 & Tug	\$14,000.00				
Total		350.20	84.32%	\$1,236,821.92	80.66%

HI A582 HIOS



Enterprise Products Partners L.P.

Platform Salvage Option

HI A582 HIOS (Ver 1)

High Island Block A582 has one platform that is operated by Enterprise Products Partners L.P. The platform will be with a 2000-ton derrick barge. All production equipment will be flushed and purged of any hydrocarbons. The equipment that will be removed by the derrick barge will be cut free of the platform. Also the pipelines will be flushed, cleaned, plugged and left in-situ. (See #12 below.)

High Island A582 HIOS is a 4-pile manifold platform installed in 1979 in 330' water depth. One 48-hour turtle watch operation conducted by the National Marine Fisheries service will be needed. The top deck equipment, and deck will be placed on a 240' x 72' cargo barge. Piles will be explosively severed and the jacket will be towed to shallow water, cut into manageable pieces and placed on additional 240' x 72' cargo barges. The decks, facilities and jacket will be taken to shore and scrapped. Side Scan Sonar and Divers (if necessary) will perform a bottom sweep to verify the site is clear.

This estimate is based on the following assumptions:

1. All decks and jackets and associated equipment are taken to shore and scrapped.
2. Removal Contractor is responsible for transport and disposal of decks, jackets, and associated equipment.
3. No salvage or resale value has been considered for the structure or equipment.
4. One derrick mobilization/demobilization cost is included for each block.
5. Mobilization times are estimated from the Eugene Island sea buoy.
6. No dockside mobilization or demobilization is included, construction barge spreads are assumed to be readily available in the Gulf of Mexico.
7. All work will be performed during the summer work season.
8. No allowances have been made for named tropical storm downtime.
9. The current guidelines for the use of explosives are assumed.
10. No allowances have been made for the presence of sea turtles or marine mammals.
11. All NORM, NOW, and industrial waste are removed from the platforms prior to decommissioning.
12. All pipelines are abandoned-in-place.
13. Tube Turns and 100' of pipeline are removed at each end of pipelines.
14. Tube Turns and pipelines are buried a minimum of 5ft. at the base of the platform.
15. All pipeline ends can be sealed using mechanical-type plugs. No provisions are made for more stringent environmental or safety regulations.
16. Site clearance and verification is in accordance with NTL 98-26.
17. Hourly rates for construction and diving spreads are developed from offshore contractors published rates.



Enterprise Products Partners L.P.

Platform Salvage Option

HI A582 HIOS (Ver 1)

- 18. Engineering & Project Management cost 8% (company or other).
- 19. Work Contingency 15%
- 20. Weather Contingency 6%

The following data will be assumed based on previous estimates developed and work experience:

Pile OD

Deck Weights

Jacket Weights

Grout Weights

Equipment Weights

Estimated Decommissioning Gross Cost = \$11,641,350

Estimated Decommissioning Net Cost = \$11,641,350



Enterprise Products Partners L.P.

Basic Information

HI A582 HIOS (Ver 1)

General Data

Platform:	HI A582 HIOS
Function:	DRILL/MANIFOLD
Type:	Steel
Water Depth:	330'
Pre 461H?:	Yes
Year Installed:	1979
Year Estimate Developed:	
District:	Gulf of Mexico
Lease Number:	
Account Code:	TSB - 26058
Amortization:	1.00
# Wells to P & A:	0
# Pipelines to Abandon:	2
Estimate Complete?:	Yes

Partner Data

Partner	Working Interest
1 Enterprise Products Partners L.P.	100.00%

Estimated Costs

	Gross Cost	Net Cost
Platform Removal:	\$8,864,215	\$8,864,215
Well Plugging & Abandonment:	\$0	\$0
Pipeline Abandonment:	\$2,777,133	\$2,777,133
Total Decommissioning Cost:	\$11,641,350	\$11,641,350



Enterprise Products Partners L.P.

Platform Information

HI A582 HIOS (Ver 1)

Pile/Tendon Data

	Number	Outside Diameter	Wall Thickness	Grout Annulus	Grout Internal	Depth Below Mudline
Main:	4	36"	1.5"	No	No	
Skirt/Braced	4	36"	1.5"	No	No	
Anchor:	0					
Dolphin:	0					

Deck Dimensions

	Dimensions	Elevation
Upper:	60X60	92
Middle:	60X30	73
Lower:	80X80	48

Conductors

Number of Slots:	0
Number Installed:	0
Outside Diameter:	
Wall Thickness:	
Number Slanted:	0

Jacket Data

	Weight (Tons)	With Piles	With Piles & Grout
Submerged:			
Dry:	1701.00	✓	✓
Jacket Installation Date:			
Jacket Contractor:			

Deck Data

Deck Lift Weight with Equipment:	300 Tons
Number of Padeyes Required:	0
Deck Installation Date:	3/3/97
Deck Contractor:	



Enterprise Products Partners L.P.

Platform Information

HI A582 HIOS (Ver 1)

Equipment Lift Weights

Equipment	Weight (Tons)
Boom	10.00
Equipment	0.00
Heliport	20.00

Members to be Cut Data

Top Members

Size	Qty
16.00	8.00
20.00	8.00
22.00	8.00
40.00	12.00

Cargo Descriptions

Cargo Barge Size	Cargo Description	
CB 240 x 72	Deck > 500T	Equipment
CB 240 x 72	Jkt 300-700T	
CB 240 x 72	Jkt 300-700T	
CB 240 x 72	Jkt 300-700T	
CB 240 x 72	Jkt 300-700T	

Miscellaneous Data

Derrick Barge Anchors:	8
Assist Derrick Barge Anchors:	0
Tow Distance:	0.00
Provision for Misc. Work%:	15.00%
Weather Contingency%:	6.00%
Engineering%:	8.00%

Miscellaneous Costs

Consumables:	\$0.00
Waste Disposal:	\$0.00
Structure & Equipment Disposal:	\$0.00
Reef Donation:	\$0.00
Cost of Engineering:	\$572,068.00



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.

Platform Comments

HI A582 HIOS (Ver 1)

Assumed the following:

Jacket Weights, Deck Weights, Pile Sizes, Grout Weights, Equipment Weights



Enterprise Products Partners L.P. Platform Decommission Task Information HI A582 HIOS (Ver 1)

Task	Note	Contingency	Task Hours		Task Cost	
Fab Explosive Charges	Includes four (4) skirt piles	<input type="checkbox"/>	0.00	0.00%	\$20,000.00	0.23%
Platform Removal Preparation		<input type="checkbox"/>	504.00	16.36%	\$428,400.00	4.83%
Mobilize Work Boat		<input type="checkbox"/>	20.10	0.65%	\$9,567.60	0.11%
NMFS Marine Observation		<input type="checkbox"/>	48.00	1.56%	\$22,848.00	0.26%
Mobilize DB 2000		<input type="checkbox"/>	24.43	0.79%	\$304,833.47	3.44%
Mobilize CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$35,100.00	0.40%
Mobilize CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$35,100.00	0.40%
Mobilize CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$35,100.00	0.40%
Mobilize CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$35,100.00	0.40%
Mobilize CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$35,100.00	0.40%
Route Survey to Reef Site	Shallow water for cutting jacket	<input type="checkbox"/>	48.00	1.56%	\$25,152.00	0.28%
Demob Work Boat		<input type="checkbox"/>	20.10	0.65%	\$7,035.00	0.08%
Setup Derrick Barge		<input checked="" type="checkbox"/>	6.75	0.22%	\$83,349.00	0.94%
Cut Deck/Equip/Misc		<input checked="" type="checkbox"/>	3.85	0.13%	\$49,464.80	0.56%
Remove Equipment		<input checked="" type="checkbox"/>	1.00	0.03%	\$12,848.00	0.14%
Remove 4 Pile Deck		<input checked="" type="checkbox"/>	9.35	0.30%	\$120,128.80	1.36%
Demob CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$21,100.00	0.24%
Jet/Airlift Pile Mud Plug		<input checked="" type="checkbox"/>	16.00	0.52%	\$197,568.00	2.23%
Jet/Air Skrt Pile Mud Plg		<input checked="" type="checkbox"/>	30.80	1.00%	\$380,318.40	4.29%
Standby for Daylight Det.		<input checked="" type="checkbox"/>	8.00	0.26%	\$98,784.00	1.11%
Set Charges in Skirt Piles		<input checked="" type="checkbox"/>	10.15	0.33%	\$125,332.20	1.41%
Pre/Post Detonat'n Survey		<input checked="" type="checkbox"/>	1.00	0.03%	\$18,598.00	0.21%
Sever Piles- Explosive		<input checked="" type="checkbox"/>	2.92	0.09%	\$36,056.16	0.41%
Sever Piles- Explosive	Skirt Piles	<input checked="" type="checkbox"/>	1.92	0.06%	\$23,708.16	0.27%
Install Closure Plates		<input checked="" type="checkbox"/>	5.00	0.16%	\$61,110.00	0.69%
Deballast Piles or Jkt Lg		<input checked="" type="checkbox"/>	5.00	0.16%	\$61,110.00	0.69%
Lift/Secure Jkt for Tow		<input checked="" type="checkbox"/>	6.00	0.19%	\$75,552.00	0.85%
Tow Jckt to Shallow Water	Tow to 232' water depth	<input checked="" type="checkbox"/>	10.00	0.32%	\$125,920.00	1.42%
Setup Derrick Barge		<input checked="" type="checkbox"/>	6.75	0.22%	\$84,996.00	0.96%
Cut Jacket	Cut at -88' elev.	<input checked="" type="checkbox"/>	49.33	1.60%	\$621,163.38	7.01%
Remove Jacket - Meth 1		<input checked="" type="checkbox"/>	13.75	0.45%	\$173,140.00	1.95%
Demob CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$21,100.00	0.24%
Install Closure Plates		<input checked="" type="checkbox"/>	5.00	0.16%	\$60,460.00	0.68%
Deballast Piles or Jkt Lg		<input checked="" type="checkbox"/>	5.00	0.16%	\$60,460.00	0.68%
Lift/Secure Jkt for Tow		<input checked="" type="checkbox"/>	6.00	0.19%	\$75,552.00	0.85%
Tow Jckt to Shallow Water	Tow to 158' water depth	<input checked="" type="checkbox"/>	8.00	0.26%	\$100,736.00	1.14%
Setup Derrick Barge		<input checked="" type="checkbox"/>	6.75	0.22%	\$84,996.00	0.96%
Cut Jacket	Cut at -168' elevation.	<input checked="" type="checkbox"/>	49.33	1.60%	\$621,163.38	7.01%



Enterprise Products Partners L.P.

Platform Decommission Task Information

HI A582 HIOS (Ver 1)

Task	Note	Contingency	Task Hours		Task Cost	
Remove Jacket - Meth 2		<input checked="" type="checkbox"/>	26.50	0.86%	\$333,688.00	3.76%
Demob CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$21,100.00	0.24%
Install Closure Plates		<input checked="" type="checkbox"/>	5.00	0.16%	\$60,460.00	0.68%
Deballast Piles or Jkt Lg		<input checked="" type="checkbox"/>	5.00	0.16%	\$60,460.00	0.68%
Lift/Secure Jkt for Tow		<input checked="" type="checkbox"/>	6.00	0.19%	\$75,552.00	0.85%
Tow Jckt to Shallow Water	Tow to 70' water depth.	<input checked="" type="checkbox"/>	6.00	0.19%	\$75,552.00	0.85%
Setup Derrick Barge		<input checked="" type="checkbox"/>	6.75	0.22%	\$84,996.00	0.96%
Cut Jacket	Cut at -252' elevation	<input checked="" type="checkbox"/>	49.33	1.60%	\$621,163.38	7.01%
Remove Jacket - Meth 2		<input checked="" type="checkbox"/>	26.50	0.86%	\$333,688.00	3.76%
Demob CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$21,100.00	0.24%
Remove Jacket - Meth 2	Remove base section	<input checked="" type="checkbox"/>	26.50	0.86%	\$333,688.00	3.76%
Demob CB 240 & Tug		<input type="checkbox"/>	42.20	1.37%	\$21,100.00	0.24%
Pick Up DB Anchors		<input checked="" type="checkbox"/>	6.75	0.22%	\$102,984.75	1.16%
Demob DB 2000		<input type="checkbox"/>	24.43	0.79%	\$304,833.47	3.44%
Site Clearance - with Divers	Does not include debris removal	<input type="checkbox"/>	6.00	0.19%	\$116,754.00	1.32%
Offload CB 240		<input type="checkbox"/>	1440.00	46.76%	\$195,680.00	2.21%
Task Total			2989.04	97.05%	\$7,150,849.95	80.67%
Misc. Work Provision (15.00%)			64.8	2.10%	\$815,212.00	9.20%
Weather Contingency (6.00%)			25.92	0.84%	\$326,084.80	3.68%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%
Storage / Scrapping					\$0.00	0.00%
Reef Donation					\$0.00	0.00%
Cost of Engineering (8.00%)					\$572,068.00	6.45%
Total:			3079.76	100.00%	\$8,864,214.75	100.00%



Enterprise Products Partners L.P.
Platform Decommission Resources Breakdown
HI A582 HIOS (Ver 1)

Resource Used	Unit Cost		Cost	
Cargo Barge 240	\$2,928.00	per Day per Barge	\$175,680.00	1.98%
CB 240 & Tug	\$500.00	per Hour per Barge/Tug	\$369,845.00	4.17%
CB Damage Deduct	\$20,000.00	per Cargo Barge	\$20,000.00	0.23%
Decomm Platform	\$0.00	Calculated from tables	\$252,000.00	2.84%
Derrick Barge 2000	\$8,815.00	per Hour per barge	\$4,238,604.66	47.82%
Dive Boat	\$466.00	per Hour	\$2,796.00	0.03%
Dive Serv - Basic	\$0.00	Calculated from tables	\$1,600,192.37	18.05%
Dive Serv - Suppl	\$0.00	Calculated from tables	\$56,988.00	0.64%
Expl Charge - Piling	\$0.00	per Inch of Outside Diam	\$20,000.00	0.23%
Expl Technician	\$130.00	per Hour	\$19,578.00	0.22%
Helicopter Trips	\$6,250.00	per Round Trip	\$18,750.00	0.21%
NMFS Observers (2)	\$126.00	per Hour	\$20,139.84	0.23%
Pipeline Survey	\$112.00	per Hour	\$59,230.08	0.67%
Rig Up CB 240	\$14,000.00	per Barge	\$70,000.00	0.79%
Side Scan Sonar	\$62.00	per Hour	\$2,976.00	0.03%
Work Boat	\$350.00	per Hour	\$224,070.00	2.53%



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A582 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Fab Explosive Charges	0.00	0.00%	\$20,000.00	0.23%
Expl Charge - Piling			\$10,000.00	
Expl Charge - Piling			\$10,000.00	
Platform Removal Preparation	504.00	16.36%	\$428,400.00	4.83%
Decomm Platform			\$252,000.00	
Work Boat			\$176,400.00	
Mobilize Work Boat	20.10	0.65%	\$9,567.60	0.11%
Work Boat			\$7,035.00	
NMFS Observers (2)			\$2,532.60	
NMFS Marine Observation	48.00	1.56%	\$22,848.00	0.26%
Work Boat			\$16,800.00	
NMFS Observers (2)			\$6,048.00	
Mobilize DB 2000	24.43	0.79%	\$304,833.47	3.44%
Derrick Barge 2000			\$215,350.45	
Dive Serv - Basic			\$77,320.95	
Pipeline Survey			\$2,736.16	
Expl Technician			\$3,175.90	
Helicopter Trips			\$6,250.00	
Mobilize CB 240 & Tug	42.20	1.37%	\$35,100.00	0.40%
CB 240 & Tug			\$21,100.00	
Rig Up CB 240			\$14,000.00	
Mobilize CB 240 & Tug	42.20	1.37%	\$35,100.00	0.40%
CB 240 & Tug			\$21,100.00	
Rig Up CB 240			\$14,000.00	
Mobilize CB 240 & Tug	42.20	1.37%	\$35,100.00	0.40%
CB 240 & Tug			\$21,100.00	
Rig Up CB 240			\$14,000.00	



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
HI A582 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Mobilize CB 240 & Tug	42.20	1.37%	\$35,100.00	0.40%
CB 240 & Tug			\$21,100.00	
Rig Up CB 240			\$14,000.00	
Mobilize CB 240 & Tug	42.20	1.37%	\$35,100.00	0.40%
CB 240 & Tug			\$21,100.00	
Rig Up CB 240			\$14,000.00	
Route Survey to Reef Site	48.00	1.56%	\$25,152.00	0.28%
Pipeline Survey			\$5,376.00	
Side Scan Sonar			\$2,976.00	
Work Boat			\$16,800.00	
Demob Work Boat	20.10	0.65%	\$7,035.00	0.08%
Work Boat			\$7,035.00	
Setup Derrick Barge	6.75	0.22%	\$83,349.00	0.94%
Derrick Barge 2000			\$59,501.25	
Dive Serv - Basic			\$21,363.75	
Pipeline Survey			\$756.00	
Expl Technician			\$877.50	
NMFS Observers (2)			\$850.50	
Cut Deck/Equip/Misc	3.85	0.13%	\$49,464.80	0.56%
Derrick Barge 2000			\$33,937.75	
Dive Serv - Basic			\$12,185.25	
Pipeline Survey			\$431.20	
Expl Technician			\$500.50	
NMFS Observers (2)			\$485.10	
CB 240 & Tug			\$1,925.00	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A582 HIOS (Ver 1)

		Task Hours		Task Cost	
Task					
Remove Equipment		1.00	0.03%	\$12,848.00	0.14%
Derrick Barge 2000	\$8,815.00				
Dive Serv - Basic	\$3,165.00				
Pipeline Survey	\$112.00				
Expl Technician	\$130.00				
NMFS Observers (2)	\$126.00				
CB 240 & Tug	\$500.00				
Remove 4 Pile Deck		9.35	0.30%	\$120,128.80	1.36%
Derrick Barge 2000	\$82,420.25				
Dive Serv - Basic	\$29,592.75				
Pipeline Survey	\$1,047.20				
Expl Technician	\$1,215.50				
NMFS Observers (2)	\$1,178.10				
CB 240 & Tug	\$4,675.00				
Demob CB 240 & Tug		42.20	1.37%	\$21,100.00	0.24%
CB 240 & Tug	\$21,100.00				
Jet/Airlift Pile Mud Plug		16.00	0.52%	\$197,568.00	2.23%
Derrick Barge 2000	\$141,040.00				
Dive Serv - Basic	\$50,640.00				
Pipeline Survey	\$1,792.00				
Expl Technician	\$2,080.00				
NMFS Observers (2)	\$2,016.00				
Jet/Air Skrt Pile Mud Plg		30.80	1.00%	\$380,318.40	4.29%
Derrick Barge 2000	\$271,502.00				
Dive Serv - Basic	\$97,482.00				
Pipeline Survey	\$3,449.60				
Expl Technician	\$4,004.00				
NMFS Observers (2)	\$3,880.80				



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
HI A582 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Standby for Daylight Det.	8.00	0.26%	\$98,784.00	1.11%
Derrick Barge 2000			\$70,520.00	
Dive Serv - Basic			\$25,320.00	
Pipeline Survey			\$896.00	
Expl Technician			\$1,040.00	
NMFS Observers (2)			\$1,008.00	
Set Charges in Skirt Piles	10.15	0.33%	\$125,332.20	1.41%
Derrick Barge 2000			\$89,472.25	
Dive Serv - Basic			\$32,124.75	
Pipeline Survey			\$1,136.80	
Expl Technician			\$1,319.50	
NMFS Observers (2)			\$1,278.90	
Pre/Post Detonat'n Survey	1.00	0.03%	\$18,598.00	0.21%
Derrick Barge 2000			\$8,815.00	
Dive Serv - Basic			\$3,165.00	
Pipeline Survey			\$112.00	
Expl Technician			\$130.00	
NMFS Observers (2)			\$126.00	
Helicopter Trips			\$6,250.00	
Sever Piles- Explosive	2.92	0.09%	\$36,056.16	0.41%
Derrick Barge 2000			\$25,739.80	
Dive Serv - Basic			\$9,241.80	
Pipeline Survey			\$327.04	
Expl Technician			\$379.60	
NMFS Observers (2)			\$367.92	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A582 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Sever Piles- Explosive	1.92	0.06%	\$23,708.16	0.27%
Derrick Barge 2000			\$16,924.80	
Dive Serv - Basic			\$6,076.80	
Pipeline Survey			\$215.04	
Expl Technician			\$249.60	
NMFS Observers (2)			\$241.92	
Install Closure Plates	5.00	0.16%	\$61,110.00	0.69%
Derrick Barge 2000			\$44,075.00	
Dive Serv - Basic			\$15,825.00	
Pipeline Survey			\$560.00	
Expl Technician			\$650.00	
Deballast Piles or Jkt Lg	5.00	0.16%	\$61,110.00	0.69%
Derrick Barge 2000			\$44,075.00	
Dive Serv - Basic			\$15,825.00	
Pipeline Survey			\$560.00	
Expl Technician			\$650.00	
Lift/Secure Jkt for Tow	6.00	0.19%	\$75,552.00	0.85%
Derrick Barge 2000			\$52,890.00	
Dive Serv - Basic			\$18,990.00	
Pipeline Survey			\$672.00	
CB 240 & Tug			\$3,000.00	
Tow Jckt to Shallow Water	10.00	0.32%	\$125,920.00	1.42%
Derrick Barge 2000			\$88,150.00	
Dive Serv - Basic			\$31,650.00	
Pipeline Survey			\$1,120.00	
CB 240 & Tug			\$5,000.00	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A582 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Setup Derrick Barge	6.75	0.22%	\$84,996.00	0.96%
Derrick Barge 2000			\$59,501.25	
Dive Serv - Basic			\$21,363.75	
Pipeline Survey			\$756.00	
CB 240 & Tug			\$3,375.00	
Cut Jacket	49.33	1.60%	\$621,163.38	7.01%
Derrick Barge 2000			\$434,843.97	
Dive Serv - Basic			\$156,129.45	
Pipeline Survey			\$5,524.96	
CB 240 & Tug			\$24,665.00	
Remove Jacket - Meth 1	13.75	0.45%	\$173,140.00	1.95%
Derrick Barge 2000			\$121,206.25	
Dive Serv - Basic			\$43,518.75	
Pipeline Survey			\$1,540.00	
CB 240 & Tug			\$6,875.00	
Demob CB 240 & Tug	42.20	1.37%	\$21,100.00	0.24%
CB 240 & Tug			\$21,100.00	
Install Closure Plates	5.00	0.16%	\$60,460.00	0.68%
Derrick Barge 2000			\$44,075.00	
Dive Serv - Basic			\$15,825.00	
Pipeline Survey			\$560.00	
Deballast Piles or Jkt Lg	5.00	0.16%	\$60,460.00	0.68%
Derrick Barge 2000			\$44,075.00	
Dive Serv - Basic			\$15,825.00	
Pipeline Survey			\$560.00	



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
HI A582 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Lift/Secure Jkt for Tow	6.00	0.19%	\$75,552.00	0.85%
Derrick Barge 2000			\$52,890.00	
Dive Serv - Basic			\$18,990.00	
Pipeline Survey			\$672.00	
CB 240 & Tug			\$3,000.00	
Tow Jckt to Shallow Water	8.00	0.26%	\$100,736.00	1.14%
Derrick Barge 2000			\$70,520.00	
Dive Serv - Basic			\$25,320.00	
Pipeline Survey			\$896.00	
CB 240 & Tug			\$4,000.00	
Setup Derrick Barge	6.75	0.22%	\$84,996.00	0.96%
Derrick Barge 2000			\$59,501.25	
Dive Serv - Basic			\$21,363.75	
Pipeline Survey			\$756.00	
CB 240 & Tug			\$3,375.00	
Cut Jacket	49.33	1.60%	\$621,163.38	7.01%
Derrick Barge 2000			\$434,843.97	
Dive Serv - Basic			\$156,129.45	
Pipeline Survey			\$5,524.96	
CB 240 & Tug			\$24,665.00	
Remove Jacket - Meth 2	26.50	0.86%	\$333,688.00	3.76%
Derrick Barge 2000			\$233,597.50	
Dive Serv - Basic			\$83,872.50	
Pipeline Survey			\$2,968.00	
CB 240 & Tug			\$13,250.00	
Demob CB 240 & Tug	42.20	1.37%	\$21,100.00	0.24%
CB 240 & Tug			\$21,100.00	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A582 HIOS (Ver 1)

		Task Hours		Task Cost	
Task					
Install Closure Plates		5.00	0.16%	\$60,460.00	0.68%
	Derrick Barge 2000			\$44,075.00	
	Dive Serv - Basic			\$15,825.00	
	Pipeline Survey			\$560.00	
Deballast Piles or Jkt Lg		5.00	0.16%	\$60,460.00	0.68%
	Derrick Barge 2000			\$44,075.00	
	Dive Serv - Basic			\$15,825.00	
	Pipeline Survey			\$560.00	
Lift/Secure Jkt for Tow		6.00	0.19%	\$75,552.00	0.85%
	Derrick Barge 2000			\$52,890.00	
	Dive Serv - Basic			\$18,990.00	
	Pipeline Survey			\$672.00	
	CB 240 & Tug			\$3,000.00	
Tow Jckt to Shallow Water		6.00	0.19%	\$75,552.00	0.85%
	Derrick Barge 2000			\$52,890.00	
	Dive Serv - Basic			\$18,990.00	
	Pipeline Survey			\$672.00	
	CB 240 & Tug			\$3,000.00	
Setup Derrick Barge		6.75	0.22%	\$84,996.00	0.96%
	Derrick Barge 2000			\$59,501.25	
	Dive Serv - Basic			\$21,363.75	
	Pipeline Survey			\$756.00	
	CB 240 & Tug			\$3,375.00	
Cut Jacket		49.33	1.60%	\$621,163.38	7.01%
	Derrick Barge 2000			\$434,843.97	
	Dive Serv - Basic			\$156,129.45	
	Pipeline Survey			\$5,524.96	
	CB 240 & Tug			\$24,665.00	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

HI A582 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Remove Jacket - Meth 2	26.50	0.86%	\$333,688.00	3.76%
Derrick Barge 2000			\$233,597.50	
Dive Serv - Basic			\$83,872.50	
Pipeline Survey			\$2,968.00	
CB 240 & Tug			\$13,250.00	
Demob CB 240 & Tug	42.20	1.37%	\$21,100.00	0.24%
CB 240 & Tug			\$21,100.00	
Remove Jacket - Meth 2	26.50	0.86%	\$333,688.00	3.76%
Derrick Barge 2000			\$233,597.50	
Dive Serv - Basic			\$83,872.50	
Pipeline Survey			\$2,968.00	
CB 240 & Tug			\$13,250.00	
Demob CB 240 & Tug	42.20	1.37%	\$21,100.00	0.24%
CB 240 & Tug			\$21,100.00	
Pick Up DB Anchors	6.75	0.22%	\$102,984.75	1.16%
Derrick Barge 2000			\$59,501.25	
Dive Serv - Basic			\$21,363.75	
Dive Serv - Basic			\$21,363.75	
Pipeline Survey			\$756.00	
Demob DB 2000	24.43	0.79%	\$304,833.47	3.44%
Derrick Barge 2000			\$215,350.45	
Dive Serv - Basic			\$77,320.95	
Pipeline Survey			\$2,736.16	
Expl Technician			\$3,175.90	
Helicopter Trips			\$6,250.00	
Site Clearance - with Divers	6.00	0.19%	\$116,754.00	1.32%
Dive Boat			\$2,796.00	
Dive Serv - Basic			\$56,970.00	
Dive Serv - Suppl			\$56,988.00	



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
HI A582 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Offload CB 240	1440.00	46.76%	\$195,680.00	2.21%
Cargo Barge 240			\$175,680.00	
CB Damage Deduct			\$20,000.00	
Total	2989.04	97.05%	\$7,150,849.95	80.67%



Enterprise Products Partners L.P.

Pipeline Information

HI A582 HIOS (Ver1) Segment#:4592

General Data

Water Depth:	330'
Origin / Terminus:	Origin
Opposite End Name:	HI A264 A
Opposite End Water Depth:	152'
Pipeline Operator:	Enterprise Products Partners L.P
Provision for Misc. Work%:	15.00%
Weather Contingency %:	6.00%

Pipeline Data

Outside Diameter:	30"	Wall Thickness:		Length:	283574'
Depth of Burial:		# Crossings:		Product:	Gas/Cond
Installation Date:		Weight Coating:	No	J Tube:	No
Riser?:	No	Riser Guard?:	No		

Comments



Enterprise Products Partners L.P.

Pipeline Information

HI A582 HIOS (Ver1) Segment#:7869

General Data

Water Depth:	330'
Origin / Terminus:	Origin
Opposite End Name:	HI A582 A
Opposite End Water Depth:	330'
Pipeline Operator:	Enterprise Products Partners L.P.
Provision for Misc. Work%:	15.00%
Weather Contingency %:	6.00%

Pipeline Data

Outside Diameter:	30"	Wall Thickness:		Length:	4469'
Depth of Burial:		# Crossings:		Product:	Gas/Cond
Installation Date:		Weight Coating:	No	J Tube:	No
Riser?:	No	Riser Guard?:	No		

Comments



Enterprise Products Partners L.P.
Pipeline Decommission Task Information
HI A582 HIOS (Ver 1) Segment#:4592

Task	Note	Contingency	Task Hours		Task Cost	
Mobilize Work Boat		<input checked="" type="checkbox"/>	20.10	4.26%	\$11,473.75	0.72%
Rig Up Decomm Equipment		<input checked="" type="checkbox"/>	5.00	1.06%	\$2,854.17	0.18%
Pig & Flush Pipeline		<input checked="" type="checkbox"/>	183.14	38.81%	\$104,542.42	6.60%
Derig Decomm Equipment		<input checked="" type="checkbox"/>	2.00	0.42%	\$1,141.67	0.07%
Demob Work Boat		<input checked="" type="checkbox"/>	20.10	4.26%	\$11,473.75	0.72%
Mobilize Dive Boat	Shared with Segment No. 7869	<input type="checkbox"/>	20.10	4.26%	\$107,062.65	6.75%
Set Up Dive Boat		<input checked="" type="checkbox"/>	3.00	0.64%	\$15,979.50	1.01%
Expose Pipeline		<input checked="" type="checkbox"/>	11.55	2.45%	\$61,521.08	3.88%
Cut & Plug Pipeline		<input checked="" type="checkbox"/>	11.55	2.45%	\$61,521.08	3.88%
Cut Pipeline Riser		<input checked="" type="checkbox"/>	7.70	1.63%	\$41,014.05	2.59%
Remove Tube Turn		<input checked="" type="checkbox"/>	7.70	1.63%	\$41,014.05	2.59%
Bury Pipeline		<input checked="" type="checkbox"/>	7.70	1.63%	\$41,014.05	2.59%
Set Up Dive Boat		<input checked="" type="checkbox"/>	3.00	0.64%	\$15,979.50	1.01%
Expose Pipeline		<input checked="" type="checkbox"/>	11.55	2.45%	\$61,521.08	3.88%
Cut & Plug Pipeline		<input checked="" type="checkbox"/>	11.55	2.45%	\$61,521.08	3.88%
Cut Pipeline Riser		<input checked="" type="checkbox"/>	7.70	1.63%	\$41,014.05	2.59%
Remove Tube Turn		<input checked="" type="checkbox"/>	7.70	1.63%	\$41,014.05	2.59%
Bury Pipeline		<input checked="" type="checkbox"/>	7.70	1.63%	\$41,014.05	2.59%
Demob Dive Boat	Shared with Segment No. 4593	<input type="checkbox"/>	20.10	4.26%	\$107,062.65	6.75%
Remove Pipeline	Remove Tube Turns & 100' of pipeline at each end	<input checked="" type="checkbox"/>	28.00	5.93%	\$393,764.00	24.84%
Task Total			396.94	84.12%	\$1,263,502.68	79.72%
Misc. Work Provision (15.00%)			53.51	11.34%	\$157,406.61	9.93%
Weather Contingency (6.00%)			21.40	4.54%	\$62,962.64	3.97%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%
Storage / Scrapping					\$0.00	0.00%
Reef Donation					\$0.00	0.00%
Cost of Engineering (8.00%)					\$101,080.21	6.38%
Total:			471.86	100.00%	\$1,584,952.15	100.00%



Enterprise Products Partners L.P.

Pipeline Decommission Task Information

HI A582 HIOS (Ver 1) Segment#:7869

Task	Note	Contingency	Task Hours		Task Cost	
Rig Up Decomm Equipment		<input checked="" type="checkbox"/>	5.00	3.01%	\$2,854.17	0.24%
Pig & Flush Pipeline		<input checked="" type="checkbox"/>	4.00	2.41%	\$2,283.33	0.19%
Derig Decomm Equipment		<input checked="" type="checkbox"/>	2.00	1.20%	\$1,141.67	0.10%
Mobilize Dive Boat	Accounted in Segment 4592	<input type="checkbox"/>	0.00	0.00%	\$0.00	0.00%
Set Up Dive Boat		<input checked="" type="checkbox"/>	3.00	1.80%	\$15,979.50	1.34%
Expose Pipeline		<input checked="" type="checkbox"/>	11.55	6.95%	\$61,521.08	5.16%
Cut & Plug Pipeline		<input checked="" type="checkbox"/>	11.55	6.95%	\$61,521.08	5.16%
Cut Pipeline Riser		<input checked="" type="checkbox"/>	7.70	4.63%	\$41,014.05	3.44%
Remove Tube Turn		<input checked="" type="checkbox"/>	7.70	4.63%	\$41,014.05	3.44%
Bury Pipeline		<input checked="" type="checkbox"/>	7.70	4.63%	\$41,014.05	3.44%
Set Up Dive Boat		<input checked="" type="checkbox"/>	3.00	1.80%	\$15,979.50	1.34%
Expose Pipeline		<input checked="" type="checkbox"/>	11.55	6.95%	\$61,521.08	5.16%
Cut & Plug Pipeline		<input checked="" type="checkbox"/>	11.55	6.95%	\$61,521.08	5.16%
Cut Pipeline Riser		<input checked="" type="checkbox"/>	7.70	4.63%	\$41,014.05	3.44%
Remove Tube Turn		<input checked="" type="checkbox"/>	7.70	4.63%	\$41,014.05	3.44%
Bury Pipeline		<input checked="" type="checkbox"/>	7.70	4.63%	\$41,014.05	3.44%
Demob Dive Boat	Accounted in Segment 4592	<input type="checkbox"/>	0.00	0.00%	\$0.00	0.00%
Remove Pipeline	Remove Tube Turns & 100' of pipeline at each end	<input checked="" type="checkbox"/>	28.00	16.84%	\$393,764.00	33.03%
Task Total			137.40	82.64%	\$924,170.79	77.52%
Misc. Work Provision (15.00%)			20.61	12.40%	\$138,625.62	11.63%
Weather Contingency (6.00%)			8.24	4.96%	\$55,450.25	4.65%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%
Storage / Scrapping					\$0.00	0.00%
Reef Donation					\$0.00	0.00%
Cost of Engineering (8.00%)					\$73,933.66	6.20%
Total:			166.25	100.00%	\$1,192,180.32	100.00%



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.
Pipeline Decommission Resources Breakdown
HI A582 HIOS (Ver 1) Segment#:4592

Resource Used	Unit Cost		Cost	
CB 240 & Tug	\$500.00	per Hour per Barge/Tug	\$14,000.00	0.89%
DB 2000	\$8,815.00	per Hour per Barge	\$246,820.00	15.74%
Decommissioning Crew	\$0.00	Calculated from tables	\$41,505.77	2.65%
Dive Boat	\$0.00	Calculated from tables	\$64,587.60	4.12%
Dive Serv - Basic	\$0.00	Calculated from tables	\$527,289.00	33.63%
Dive Serv - Suppl	\$0.00	Calculated from tables	\$263,727.80	16.82%
Manual Calculation	\$0.00	Independently Calculated	\$0.00	0.00%
Work Boat	\$0.00	Calculated from tables	\$105,572.51	6.73%



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.
Pipeline Decommission Resources Breakdown
HI A582 HIOS (Ver 1) Segment#:7869

Resource Used	Unit Cost		Cost	
CB 240 & Tug	\$500.00	per Hour per Barge/Tug	\$14,000.00	1.17%
DB 2000	\$8,815.00	per Hour per Barge	\$246,820.00	20.70%
Decommissioning Crew	\$0.00	Calculated from tables	\$12,307.52	1.03%
Dive Boat	\$0.00	Calculated from tables	\$45,854.40	3.85%
Dive Serv - Basic	\$0.00	Calculated from tables	\$400,056.00	33.56%
Dive Serv - Suppl	\$0.00	Calculated from tables	\$200,091.20	16.78%
Manual Calculation	\$0.00	Independently Calculated	\$0.00	0.00%
Work Boat	\$0.00	Calculated from tables	\$5,041.67	0.42%



Enterprise Products Partners L.P.

Pipeline Decommission Cost Breakdown

HI A582 HIOS (Ver 1) Segment#:4592

Task		Task Hours		Task Cost	
Mobilize Work Boat		20.10	4.26%	\$11,473.75	0.73%
Work Boat	\$9,212.50				
Decommissioning Crew	\$2,261.25				
Rig Up Decomm Equipment		5.00	1.06%	\$2,854.17	0.18%
Work Boat	\$2,291.67				
Decommissioning Crew	\$562.50				
Pig & Flush Pipeline		183.14	38.81%	\$104,542.42	6.67%
Work Boat	\$83,939.17				
Decommissioning Crew	\$20,603.25				
Derig Decomm Equipment		2.00	0.42%	\$1,141.67	0.07%
Work Boat	\$916.67				
Decommissioning Crew	\$225.00				
Demob Work Boat		20.10	4.26%	\$11,473.75	0.73%
Work Boat	\$9,212.50				
Decommissioning Crew	\$2,261.25				
Mobilize Dive Boat		20.10	4.26%	\$107,062.65	6.83%
Dive Boat	\$9,366.60				
Dive Serv - Basic	\$63,616.50				
Dive Serv - Suppl	\$31,818.30				
Decommissioning Crew	\$2,261.25				
Set Up Dive Boat		3.00	0.64%	\$15,979.50	1.02%
Dive Boat	\$1,398.00				
Dive Serv - Basic	\$9,495.00				
Dive Serv - Suppl	\$4,749.00				
Decommissioning Crew	\$337.50				
Expose Pipeline		11.55	2.45%	\$61,521.08	3.92%
Dive Boat	\$5,382.30				
Dive Serv - Basic	\$36,555.75				
Dive Serv - Suppl	\$18,283.65				
Decommissioning Crew	\$1,299.38				



Enterprise Products Partners L.P. Pipeline Decommission Cost Breakdown

Cut & Plug Pipeline		11.55	2.45%	\$61,521.08	3.92%
Dive Boat	\$5,382.30				
Dive Serv - Basic	\$36,555.75				
Dive Serv - Suppl	\$18,283.65				
Decommissioning Crew	\$1,299.38				
Cut Pipeline Riser		7.70	1.63%	\$41,014.05	2.62%
Dive Boat	\$3,588.20				
Dive Serv - Basic	\$24,370.50				
Dive Serv - Suppl	\$12,189.10				
Decommissioning Crew	\$866.25				
Remove Tube Turn		7.70	1.63%	\$41,014.05	2.62%
Dive Boat	\$3,588.20				
Dive Serv - Basic	\$24,370.50				
Dive Serv - Suppl	\$12,189.10				
Decommissioning Crew	\$866.25				
Manual Calculation	\$0.00				
Bury Pipeline		7.70	1.63%	\$41,014.05	2.62%
Dive Boat	\$3,588.20				
Dive Serv - Basic	\$24,370.50				
Dive Serv - Suppl	\$12,189.10				
Decommissioning Crew	\$866.25				
Set Up Dive Boat		3.00	0.64%	\$15,979.50	1.02%
Dive Boat	\$1,398.00				
Dive Serv - Basic	\$9,495.00				
Dive Serv - Suppl	\$4,749.00				
Decommissioning Crew	\$337.50				
Expose Pipeline		11.55	2.45%	\$61,521.08	3.92%
Dive Boat	\$5,382.30				
Dive Serv - Basic	\$36,555.75				
Dive Serv - Suppl	\$18,283.65				
Decommissioning Crew	\$1,299.38				



Enterprise Products Partners L.P. Pipeline Decommission Cost Breakdown

Cut & Plug Pipeline		11.55	2.45%	\$61,521.08	3.92%
Dive Boat	\$5,382.30				
Dive Serv - Basic	\$36,555.75				
Dive Serv - Suppl	\$18,283.65				
Decommissioning Crew	\$1,299.38				
Cut Pipeline Riser		7.70	1.63%	\$41,014.05	2.62%
Dive Boat	\$3,588.20				
Dive Serv - Basic	\$24,370.50				
Dive Serv - Suppl	\$12,189.10				
Decommissioning Crew	\$866.25				
Remove Tube Turn		7.70	1.63%	\$41,014.05	2.62%
Dive Boat	\$3,588.20				
Dive Serv - Basic	\$24,370.50				
Dive Serv - Suppl	\$12,189.10				
Decommissioning Crew	\$866.25				
Bury Pipeline		7.70	1.63%	\$41,014.05	2.62%
Dive Boat	\$3,588.20				
Dive Serv - Basic	\$24,370.50				
Dive Serv - Suppl	\$12,189.10				
Decommissioning Crew	\$866.25				
Demob Dive Boat		20.10	4.26%	\$107,062.65	6.83%
Dive Boat	\$9,366.60				
Dive Serv - Basic	\$63,616.50				
Dive Serv - Suppl	\$31,818.30				
Decommissioning Crew	\$2,261.25				
Remove Pipeline		28.00	5.93%	\$393,764.00	25.12%
DB 2000	\$246,820.00				
Dive Serv - Basic	\$88,620.00				
Dive Serv - Suppl	\$44,324.00				
CB 240 & Tug	\$14,000.00				
Total		396.94	84.12%	\$1,263,502.68	80.59%



Enterprise Products Partners L.P.
Pipeline Decommission Cost Breakdown
HI A582 HIOS (Ver 1) Segment#:7869

Task		Task Hours		Task Cost	
Rig Up Decomm Equipment		5.00	3.01%	\$2,854.17	0.24%
Work Boat	\$2,291.67				
Decommissioning Crew	\$562.50				
Pig & Flush Pipeline		4.00	2.41%	\$2,283.33	0.19%
Work Boat	\$1,833.33				
Decommissioning Crew	\$450.00				
Derig Decomm Equipment		2.00	1.20%	\$1,141.67	0.10%
Work Boat	\$916.67				
Decommissioning Crew	\$225.00				
Mobilize Dive Boat		0.00	0.00%	\$0.00	0.00%
Dive Boat	\$0.00				
Dive Serv - Basic	\$0.00				
Dive Serv - Suppl	\$0.00				
Decommissioning Crew	\$0.00				
Set Up Dive Boat		3.00	1.80%	\$15,979.50	1.34%
Dive Boat	\$1,398.00				
Dive Serv - Basic	\$9,495.00				
Dive Serv - Suppl	\$4,749.00				
Decommissioning Crew	\$337.50				
Expose Pipeline		11.55	6.95%	\$61,521.08	5.16%
Dive Boat	\$5,382.30				
Dive Serv - Basic	\$36,555.75				
Dive Serv - Suppl	\$18,283.65				
Decommissioning Crew	\$1,299.38				
Cut & Plug Pipeline		11.55	6.95%	\$61,521.08	5.16%
Dive Boat	\$5,382.30				
Dive Serv - Basic	\$36,555.75				
Dive Serv - Suppl	\$18,283.65				
Decommissioning Crew	\$1,299.38				



Enterprise Products Partners L.P. Pipeline Decommission Cost Breakdown

Cut Pipeline Riser		7.70	4.63%	\$41,014.05	3.44%
Dive Boat	\$3,588.20				
Dive Serv - Basic	\$24,370.50				
Dive Serv - Suppl	\$12,189.10				
Decommissioning Crew	\$866.25				
Remove Tube Turn		7.70	4.63%	\$41,014.05	3.44%
Dive Boat	\$3,588.20				
Dive Serv - Basic	\$24,370.50				
Dive Serv - Suppl	\$12,189.10				
Decommissioning Crew	\$866.25				
Manual Calculation	\$0.00				
Bury Pipeline		7.70	4.63%	\$41,014.05	3.44%
Dive Boat	\$3,588.20				
Dive Serv - Basic	\$24,370.50				
Dive Serv - Suppl	\$12,189.10				
Decommissioning Crew	\$866.25				
Set Up Dive Boat		3.00	1.80%	\$15,979.50	1.34%
Dive Boat	\$1,398.00				
Dive Serv - Basic	\$9,495.00				
Dive Serv - Suppl	\$4,749.00				
Decommissioning Crew	\$337.50				
Expose Pipeline		11.55	6.95%	\$61,521.08	5.16%
Dive Boat	\$5,382.30				
Dive Serv - Basic	\$36,555.75				
Dive Serv - Suppl	\$18,283.65				
Decommissioning Crew	\$1,299.38				
Cut & Plug Pipeline		11.55	6.95%	\$61,521.08	5.16%
Dive Boat	\$5,382.30				
Dive Serv - Basic	\$36,555.75				
Dive Serv - Suppl	\$18,283.65				
Decommissioning Crew	\$1,299.38				



Enterprise Products Partners L.P. Pipeline Decommission Cost Breakdown

Cut Pipeline Riser		7.70	4.63%	\$41,014.05	3.44%
Dive Boat	\$3,588.20				
Dive Serv - Basic	\$24,370.50				
Dive Serv - Suppl	\$12,189.10				
Decommissioning Crew	\$866.25				
Remove Tube Turn		7.70	4.63%	\$41,014.05	3.44%
Dive Boat	\$3,588.20				
Dive Serv - Basic	\$24,370.50				
Dive Serv - Suppl	\$12,189.10				
Decommissioning Crew	\$866.25				
Bury Pipeline		7.70	4.63%	\$41,014.05	3.44%
Dive Boat	\$3,588.20				
Dive Serv - Basic	\$24,370.50				
Dive Serv - Suppl	\$12,189.10				
Decommissioning Crew	\$866.25				
Demob Dive Boat		0.00	0.00%	\$0.00	0.00%
Dive Boat	\$0.00				
Dive Serv - Basic	\$0.00				
Dive Serv - Suppl	\$0.00				
Decommissioning Crew	\$0.00				
Remove Pipeline		28.00	16.84%	\$393,764.00	33.03%
DB 2000	\$246,820.00				
Dive Serv - Basic	\$88,620.00				
Dive Serv - Suppl	\$44,324.00				
CB 240 & Tug	\$14,000.00				
Total		137.40	82.64%	\$924,170.79	77.52%

WC 167 HIOS



Enterprise Products Partners L.P.

Platform Salvage Option

WC 167 HIOS (Ver 1)

West Cameron Block 167 has 3 structures that are operated by Enterprise Products Partners L.P. The structures will be removed in one mobilization and demobilization of a 600-ton derrick barge. All production equipment will be flushed and purged of any hydrocarbons. The equipment that will be removed by the derrick barge will be cut free of the platform.

Also the pipelines will be flushed, cleaned, plugged and left in-situ. (See #12 below.)

West Cameron Block 167 HIOS is an 8-pile Manifold platform installed in 1979 in 46' water depth and bridge connected to two Flare support structures. Since the structures are bridge connected, one 48-hour turtle watch operation conducted by the National Marine Fisheries service will be needed. The top deck equipment (of WC 167 HIOS) and deck will be placed on a 240 x 72 cargo barge. Piles will be explosively severed and a second 240 x 72 cargo barge will be used for the jacket. The decks, facilities and jacket will be taken to shore and scrapped. A 1,400 ft radius will be needed to clear both platform sites of any bottom debris.

This estimate is based on the following assumptions:

1. All decks and jackets and associated equipment are taken to shore and scrapped.
2. Removal Contractor is responsible for transport and disposal of decks, jackets, and associated equipment.
3. No salvage or resale value has been considered for the structure or equipment.
4. One derrick mobilization/demobilization cost is included for each block.
5. Mobilization times are estimated from the Eugene Island sea buoy.
6. No dockside mobilization or demobilization is included, construction barge spreads are assumed to be readily available in the Gulf of Mexico.
7. All work will be performed during the summer work season.
8. No allowances have been made for named tropical storm downtime.
9. The current guidelines for the use of explosives are assumed.
10. No allowances have been made for the presence of sea turtles or marine mammals.
11. All NORM, NOW, and industrial waste are removed from the platforms prior to decommissioning.
12. All pipelines are abandoned-in-place.
13. Tube Turns and 100' of pipeline are removed at each end of pipelines.
14. Tube Turns and pipelines are buried a minimum of 5ft. at the base of the platform.
15. All pipeline ends can be sealed using mechanical-type plugs. No provisions are made for more stringent environmental or safety regulations.
16. Site clearance and verification is in accordance with NTL 98-26.
17. Hourly rates for construction and diving spreads are developed from offshore



Enterprise Products Partners L.P.

Platform Salvage Option

WC 167 HIOS (Ver 1)

contractors published rates.

18. Engineering & Project Management cost 8% (company or other).

19. Work Contingency 15%

20. Weather Contingency 6%

The following data will be assumed based on previous estimates developed and work experience:

Pile OD

Deck Weights

Jacket Weights

Grout Weights

Equipment Weights

Estimated Decommissioning Gross Cost = \$2,064,706

Estimated Decommissioning Net Cost = \$2,064,706



Enterprise Products Partners L.P.

Basic Information

WC 167 HIOS (Ver 1)

General Data

Platform:	WC 167 HIOS
Function:	DRILL/MANIFOLD
Type:	Steel
Water Depth:	46'
Pre 461H?:	Yes
Year Installed:	1979
Year Estimate Developed:	
District:	Gulf of Mexico
Lease Number:	
Account Code:	TSB - 26058
Amortization:	1.00
# Wells to P & A:	0
# Pipelines to Abandon:	0
Estimate Complete?:	Yes

Partner Data

Partner	Working Interest
1 Enterprise Products Partners L.P.	100.00%

Estimated Costs

	Gross Cost	Net Cost
Platform Removal:	\$2,064,706	\$2,064,706
Well Plugging & Abandonment:	\$0	\$0
Pipeline Abandonment:	\$0	\$0
Total Decommissioning Cost:	\$2,064,706	\$2,064,706



Enterprise Products Partners L.P.

Platform Information

WC 167 HIOS (Ver 1)

Pile/Tendon Data

	Number	Outside Diameter	Wall Thickness	Grout Annulus	Grout Internal	Depth Below Mudline
Main:	8	36"	1.5"	No	No	
Skirt/Braced	0			No	No	
Anchor:	0					
Dolphin:	0					

Deck Dimensions

	Dimensions	Elevation
Upper:	166X56	
Middle:		
Lower:		

Conductors

Number of Slots:	0
Number Installed:	0
Outside Diameter:	
Wall Thickness:	
Number Slanted:	0

Jacket Data

	Weight (Tons)	With Piles	With Piles & Grout
Submerged:			
Dry:	389.00		
Jacket Installation Date:			
Jacket Contractor:			

Deck Data

Deck Lift Weight with Equipment:	311 Tons
Number of Padeyes Required:	0
Deck Installation Date:	3/3/79
Deck Contractor:	



Enterprise Products Partners L.P.

Platform Information

WC 167 HIOS (Ver 1)

Equipment Lift Weights

Equipment	Weight (Tons)
Heliport	20.00

Members to be Cut Data

Underwater Members

Size	Qty
------	-----

Cargo Descriptions

Cargo Barge Size	Cargo Description
CB 240 x 72	Deck 100-500T
CB 180 x 54	Jkt 300-700T

Miscellaneous Data

Derrick Barge Anchors:	6
Assist Derrick Barge Anchors:	0
Tow Distance:	0.00
Provision for Misc. Work%:	15.00%
Weather Contingency%:	6.00%
Engineering%:	8.00%

Miscellaneous Costs

Consumables:	\$0.00
Waste Disposal:	\$0.00
Structure & Equipment Disposal:	\$0.00
Reef Donation:	\$0.00
Cost of Engineering:	\$142,877.09



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.

Platform Comments

WC 167 HIOS (Ver 1)

Assumed the following:

Jacket Weights, Deck Weights, Pile Sizes, Grout Weights, Equipment Weights,
Deck(s) Sizes



Enterprise Products Partners L.P.

Platform Decommission Task Information

WC 167 HIOS (Ver 1)

Task	Note	Contingency	Task Hours		Task Cost	
Fab Explosive Charges		<input type="checkbox"/>	0.00	0.00%	\$20,000.00	0.97%
Platform Removal Preparation		<input type="checkbox"/>	504.00	24.79%	\$428,400.00	20.75%
Mobilize Work Boat		<input type="checkbox"/>	14.70	0.72%	\$6,997.20	0.34%
NMFS Marine Observation		<input type="checkbox"/>	48.00	2.36%	\$22,848.00	1.11%
Demob Work Boat		<input type="checkbox"/>	14.70	0.72%	\$5,145.00	0.25%
Mobilize DB 600/800		<input type="checkbox"/>	38.00	1.87%	\$246,030.00	11.92%
Mobilize CB 180 & Tug		<input type="checkbox"/>	31.40	1.54%	\$19,618.00	0.95%
Mobilize CB 240 & Tug		<input type="checkbox"/>	31.40	1.54%	\$29,700.00	1.44%
Setup Derrick Barge		<input checked="" type="checkbox"/>	5.25	0.26%	\$33,789.00	1.64%
Cut Deck/Equip/Misc		<input checked="" type="checkbox"/>	3.85	0.19%	\$26,703.60	1.29%
Remove Equipment		<input checked="" type="checkbox"/>	0.50	0.02%	\$3,468.00	0.17%
Remove 8 Pile Deck		<input checked="" type="checkbox"/>	9.35	0.46%	\$64,851.60	3.14%
Demob CB 240 & Tug		<input type="checkbox"/>	31.40	1.54%	\$15,700.00	0.76%
Jet/Airlift Pile Mud Plug		<input checked="" type="checkbox"/>	15.00	0.74%	\$102,090.00	4.94%
Standby for Daylight Det.		<input checked="" type="checkbox"/>	8.00	0.39%	\$54,448.00	2.64%
Pre/Post Detonat'n Survey		<input checked="" type="checkbox"/>	1.00	0.05%	\$13,056.00	0.63%
Sever Piles- Explosive		<input checked="" type="checkbox"/>	4.84	0.24%	\$32,941.04	1.60%
Remove Jacket - Meth 1		<input checked="" type="checkbox"/>	20.75	1.02%	\$138,610.00	6.71%
Demob CB 180 & Tug		<input type="checkbox"/>	31.40	1.54%	\$11,618.00	0.56%
Pick Up DB Anchors		<input checked="" type="checkbox"/>	5.25	0.26%	\$33,127.50	1.60%
Demob DB 600/800		<input type="checkbox"/>	38.00	1.87%	\$246,030.00	11.92%
Site Clearance - with Trawler		<input checked="" type="checkbox"/>	256.72	12.63%	\$74,931.92	3.63%
Site Clearance Verify		<input checked="" type="checkbox"/>	345.43	16.99%	\$68,964.23	3.34%
Offload CB 240		<input type="checkbox"/>	168.00	8.26%	\$40,496.00	1.96%
Offload CB 180		<input type="checkbox"/>	264.00	12.99%	\$46,400.00	2.25%
Task Total			1890.94	93.02%	\$1,785,963.09	86.50%
Misc. Work Provision (15.00%)			101.39	4.99%	\$97,047.14	4.70%
Weather Contingency (6.00%)			40.56	2.00%	\$38,818.85	1.88%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%
Storage / Scrapping					\$0.00	0.00%
Reef Donation					\$0.00	0.00%
Cost of Engineering (8.00%)					\$142,877.10	6.92%
Total:			2032.89	100.00%	\$2,064,706.18	100.00%



Enterprise Products Partners L.P.

Platform Decommission Resources Breakdown

WC 167 HIOS (Ver 1)

Resource Used	Unit Cost		Cost	
Cargo Barge 180	\$2,400.00	per Day per Barge	\$26,400.00	1.28%
Cargo Barge 240	\$2,928.00	per Day per Barge	\$20,496.00	0.99%
CB 180 & Tug	\$370.00	per Hour per Barge/Tug	\$41,584.30	2.01%
CB 240 & Tug	\$500.00	per Hour per Barge/Tug	\$38,250.00	1.85%
CB Damage Deduct	\$20,000.00	per Cargo Barge	\$40,000.00	1.94%
Decomm Platform	\$0.00	Calculated from tables	\$252,000.00	12.21%
Derrick Barge 600/800	\$5,300.00	per Hour per barge	\$793,887.00	38.45%
Dive Serv - Basic	\$0.00	Calculated from tables	\$115,038.72	5.57%
Expl Charge - Piling	\$0.00	per Inch of Outside Diam	\$20,000.00	0.97%
Expl Technician	\$130.00	per Hour	\$19,472.70	0.94%
Helicopter Trips	\$6,250.00	per Round Trip	\$18,750.00	0.91%
Nets (Heavy Duty, Non-Repairable)	\$4,800.00	ea	\$14,400.00	0.70%
Nets (Heavy Duty, Repairable)	\$2,400.00	ea	\$19,200.00	0.93%
Nets (Non-Repairable)	\$2,150.00	ea	\$6,450.00	0.31%
Nets (Repairable)	\$1,150.00	ea	\$6,900.00	0.33%
NMFS Observers (2)	\$126.00	per Hour	\$13,921.74	0.67%
Pipeline Survey	\$112.00	per Hour	\$16,776.48	0.81%
Rig Up CB 180	\$8,000.00	per Barge	\$8,000.00	0.39%
Rig Up CB 240	\$14,000.00	per Barge	\$14,000.00	0.68%
Trawler	\$161.00	per Hour	\$96,946.15	4.70%
Work Boat	\$350.00	per Hour	\$203,490.00	9.86%



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

WC 167 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Fab Explosive Charges	0.00	0.00%	\$20,000.00	0.97%
Expl Charge - Piling			\$20,000.00	
Platform Removal Preparation	504.00	24.79%	\$428,400.00	20.75%
Decomm Platform			\$252,000.00	
Work Boat			\$176,400.00	
Mobilize Work Boat	14.70	0.72%	\$6,997.20	0.34%
Work Boat			\$5,145.00	
NMFS Observers (2)			\$1,852.20	
NMFS Marine Observation	48.00	2.36%	\$22,848.00	1.11%
Work Boat			\$16,800.00	
NMFS Observers (2)			\$6,048.00	
Demob Work Boat	14.70	0.72%	\$5,145.00	0.25%
Work Boat			\$5,145.00	
Mobilize DB 600/800	38.00	1.87%	\$246,030.00	11.92%
Derrick Barge 600/800			\$201,400.00	
Dive Serv - Basic			\$29,184.00	
Pipeline Survey			\$4,256.00	
Expl Technician			\$4,940.00	
Helicopter Trips			\$6,250.00	
Mobilize CB 180 & Tug	31.40	1.54%	\$19,618.00	0.95%
CB 180 & Tug			\$11,618.00	
Rig Up CB 180			\$8,000.00	
Mobilize CB 240 & Tug	31.40	1.54%	\$29,700.00	1.44%
CB 240 & Tug			\$15,700.00	
Rig Up CB 240			\$14,000.00	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

WC 167 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Setup Derrick Barge	5.25	0.26%	\$33,789.00	1.64%
Derrick Barge 600/800			\$27,825.00	
Dive Serv - Basic			\$4,032.00	
Pipeline Survey			\$588.00	
Expl Technician			\$682.50	
NMFS Observers (2)			\$661.50	
Cut Deck/Equip/Misc	3.85	0.19%	\$26,703.60	1.29%
Derrick Barge 600/800			\$20,405.00	
Dive Serv - Basic			\$2,956.80	
Pipeline Survey			\$431.20	
Expl Technician			\$500.50	
NMFS Observers (2)			\$485.10	
CB 240 & Tug			\$1,925.00	
Remove Equipment	0.50	0.02%	\$3,468.00	0.17%
Derrick Barge 600/800			\$2,650.00	
Dive Serv - Basic			\$384.00	
Pipeline Survey			\$56.00	
Expl Technician			\$65.00	
NMFS Observers (2)			\$63.00	
CB 240 & Tug			\$250.00	
Remove 8 Pile Deck	9.35	0.46%	\$64,851.60	3.14%
Derrick Barge 600/800			\$49,555.00	
Dive Serv - Basic			\$7,180.80	
Pipeline Survey			\$1,047.20	
Expl Technician			\$1,215.50	
NMFS Observers (2)			\$1,178.10	
CB 240 & Tug			\$4,675.00	
Demob CB 240 & Tug	31.40	1.54%	\$15,700.00	0.76%
CB 240 & Tug			\$15,700.00	



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
WC 167 HIOS (Ver 1)

		Task Hours		Task Cost	
Task					
Jet/Airlift Pile Mud Plug		15.00	0.74%	\$102,090.00	4.94%
	Derrick Barge 600/800			\$79,500.00	
	Dive Serv - Basic			\$11,520.00	
	Pipeline Survey			\$1,680.00	
	Expl Technician			\$1,950.00	
	NMFS Observers (2)			\$1,890.00	
	CB 180 & Tug			\$5,550.00	
Standby for Daylight Det.		8.00	0.39%	\$54,448.00	2.64%
	Derrick Barge 600/800			\$42,400.00	
	Dive Serv - Basic			\$6,144.00	
	Pipeline Survey			\$896.00	
	Expl Technician			\$1,040.00	
	NMFS Observers (2)			\$1,008.00	
	CB 180 & Tug			\$2,960.00	
Pre/Post Detonat'n Survey		1.00	0.05%	\$13,056.00	0.63%
	Derrick Barge 600/800			\$5,300.00	
	Dive Serv - Basic			\$768.00	
	Pipeline Survey			\$112.00	
	Expl Technician			\$130.00	
	NMFS Observers (2)			\$126.00	
	CB 180 & Tug			\$370.00	
	Helicopter Trips			\$6,250.00	
Sever Piles- Explosive		4.84	0.24%	\$32,941.04	1.60%
	Derrick Barge 600/800			\$25,652.00	
	Dive Serv - Basic			\$3,717.12	
	Pipeline Survey			\$542.08	
	Expl Technician			\$629.20	
	NMFS Observers (2)			\$609.84	
	CB 180 & Tug			\$1,790.80	



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

WC 167 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Remove Jacket - Meth 1	20.75	1.02%	\$138,610.00	6.71%
Derrick Barge 600/800			\$109,975.00	
Dive Serv - Basic			\$15,936.00	
Pipeline Survey			\$2,324.00	
Expl Technician			\$2,697.50	
CB 180 & Tug			\$7,677.50	
Demob CB 180 & Tug	31.40	1.54%	\$11,618.00	0.56%
CB 180 & Tug			\$11,618.00	
Pick Up DB Anchors	5.25	0.26%	\$33,127.50	1.60%
Derrick Barge 600/800			\$27,825.00	
Dive Serv - Basic			\$4,032.00	
Pipeline Survey			\$588.00	
Expl Technician			\$682.50	
Demob DB 600/800	38.00	1.87%	\$246,030.00	11.92%
Derrick Barge 600/800			\$201,400.00	
Dive Serv - Basic			\$29,184.00	
Pipeline Survey			\$4,256.00	
Expl Technician			\$4,940.00	
Helicopter Trips			\$6,250.00	
Site Clearance - with Trawler	256.72	12.63%	\$74,931.92	3.63%
Trawler			\$41,331.92	
Nets (Heavy Duty, Non-Repairable)			\$14,400.00	
Nets (Heavy Duty, Repairable)			\$19,200.00	
Site Clearance Verify	345.43	16.99%	\$68,964.23	3.34%
Trawler			\$55,614.23	
Nets (Non-Repairable)			\$6,450.00	
Nets (Repairable)			\$6,900.00	



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
WC 167 HIOS (Ver 1)

Task	Task Hours		Task Cost	
Offload CB 240	168.00	8.26%	\$40,496.00	1.96%
Cargo Barge 240			\$20,496.00	
CB Damage Deduct			\$20,000.00	
Offload CB 180	264.00	12.99%	\$46,400.00	2.25%
Cargo Barge 180			\$26,400.00	
CB Damage Deduct			\$20,000.00	
Total	1890.94	93.02%	\$1,785,963.09	86.50%

WC 167 HIOS-Flare



Enterprise Products Partners L.P.

Platform Salvage Option

WC 167 HIOS-Flare (Ver 1)

West Cameron Block 167 has 3 structures that are operated by Enterprise Products Partners L.P. The structure will be removed in one mobilization and demobilization of a 600-ton derrick barge. All production equipment will be flushed and purged of any hydrocarbons. The equipment that will be removed by the derrick barge will be cut free of the platform.

Also the pipelines will be pigged, flushed, cleaned, plugged and left in-situ. (See #12 below.)

West Cameron 167 HIOS-Flare is a bridge supported by two 3-pile structures, installed in 1979 in 46' water depth, and bridge connected to the WC 167 HIOS structure. Since the structures is bridge connected, one 48-hour turtle watch operation conducted by the National Marine Fisheries service will be needed. The bridge will be placed on a 240' x 70' cargo barge. Piles will be explosively severed and the 240' x 70' cargo barge will also be used for the jacket. The bridge and jackets will be taken to shore and scrapped. A 1,400 ft radius will be needed to clear both platform sites of any bottom debris.

This estimate is based on the following assumptions:

1. All decks and jackets and associated equipment are taken to shore and scrapped.
2. Removal Contractor is responsible for transport and disposal of decks, jackets, and associated equipment.
3. No salvage or resale value has been considered for the structure or equipment.
4. One derrick mobilization/demobilization cost is included for each block.
5. Mobilization times are estimated from the Eugene Island sea buoy.
6. No dockside mobilization or demobilization is included, construction barge spreads are assumed to be readily available in the Gulf of Mexico.
7. All work will be performed during the summer work season.
8. No allowances have been made for named tropical storm downtime.
9. The current guidelines for the use of explosives are assumed.
10. No allowances have been made for the presence of sea turtles or marine mammals.
11. All NORM, NOW, and industrial waste are removed from the platforms prior to decommissioning.
12. All pipelines are abandoned-in-place.
13. Tube Turns and 100' of pipeline are removed at each end of pipelines.
14. Tube Turns and pipelines are buried a minimum of 5ft. at the base of the platform.
15. All pipeline ends can be sealed using mechanical-type plugs. No provisions are made for more stringent environmental or safety regulations.
16. Site clearance and verification is in accordance with NTL 98-26.



Enterprise Products Partners L.P.

Platform Salvage Option

WC 167 HIOS-Flare (Ver 1)

- 17. Hourly rates for construction and diving spreads are developed from offshore contractors published rates.
- 18. Engineering & Project Management cost 8% (company or other).
- 19. Work Contingency 15%
- 20. Weather Contingency 6%

The following data will be assumed based on previous estimates developed and work experience:

Pile OD
Deck Weights
Jacket Weights
Grout Weights
Equipment Weights

Estimated Decommissioning Gross Cost = \$918,095

Estimated Decommissioning Net Cost = \$918,095



Enterprise Products Partners L.P.

Basic Information

WC 167 HIOS-Flare (Ver 1)

General Data

Platform:	WC 167 HIOS-Flare
Function:	AUXILIARY
Type:	Steel
Water Depth:	46'
Pre 461H?:	Yes
Year Installed:	1979
Year Estimate Developed:	
District:	Gulf of Mexico
Lease Number:	
Account Code:	TSB - 26058
Amortization:	1.00
# Wells to P & A:	0
# Pipelines to Abandon:	0
Estimate Complete?:	Yes

Partner Data

Partner	Working Interest
1 Enterprise Products Partners L.P.	100.00%

Estimated Costs

	Gross Cost	Net Cost
Platform Removal:	\$918,095	\$918,095
Well Plugging & Abandonment:	\$0	\$0
Pipeline Abandonment:	\$0	\$0
Total Decommissioning Cost:	\$918,095	\$918,095



Enterprise Products Partners L.P.

Platform Information

WC 167 HIOS-Flare (Ver 1)

Pile/Tendon Data

	Number	Outside Diameter	Wall Thickness	Grout Annulus	Grout Internal	Depth Below Mudline
Main:	3	30"	1.5"	No	No	
Skirt/Braced	0			No	No	
Anchor:	0					
Dolphin:	0					

Deck Dimensions

	Dimensions	Elevation
Upper:		
Middle:		
Lower:		

Conductors

Number of Slots:	0
Number Installed:	0
Outside Diameter:	
Wall Thickness:	
Number Slanted:	0

Jacket Data

	Weight (Tons)	With Piles	With Piles & Grout
Submerged:			
Dry:	100.00		
Jacket Installation Date:			
Jacket Contractor:			

Deck Data

Deck Lift Weight with Equipment:	
Number of Padeyes Required:	0
Deck Installation Date:	
Deck Contractor:	



Enterprise Products Partners L.P.

Platform Information

WC 167 HIOS-Flare (Ver 1)

Equipment Lift Weights

Equipment	Weight (Tons)
Bridge	75.00
Flare	12.00

Members to be Cut Data

Underwater Members

Size	Qty
------	-----

Cargo Descriptions

Cargo Barge Size	Cargo Description			
CB 240 x 72	Deck 100-500T	Jkt 300-700T	Equipment	Bridge

Miscellaneous Data

Derrick Barge Anchors:	6
Assist Derrick Barge Anchors:	0
Tow Distance:	0.00
Provision for Misc. Work%:	15.00%
Weather Contingency%:	6.00%
Engineering%:	8.00%

Miscellaneous Costs

Consumables:	\$0.00
Waste Disposal:	\$0.00
Structure & Equipment Disposal:	\$0.00
Reef Donation:	\$0.00
Cost of Engineering:	\$59,089.28



TWACHTMAN SNYDER & BYRD, INC.

Enterprise Products Partners L.P.

Platform Comments

WC 167 HIOS-Flare (Ver 1)



Enterprise Products Partners L.P.

Platform Decommission Task Information

WC 167 HIOS-Flare (Ver 1)

Task	Note	Contingency	Task Hours		Task Cost	
Fab Explosive Charges		<input type="checkbox"/>	0.00	0.00%	\$15,000.00	1.63%
Platform Removal Preparation		<input type="checkbox"/>	48.00	7.56%	\$16,800.00	1.83%
Mobilize Work Boat	Cost assigned to WC 167 HIOS PLTF	<input type="checkbox"/>	0.00	0.00%	\$0.00	0.00%
NMFS Marine Observation	Cost assigned to WC 167 HIOS PLTF	<input type="checkbox"/>	0.00	0.00%	\$0.00	0.00%
Demob Work Boat	Cost assigned to WC 167 HIOS PLTF	<input type="checkbox"/>	0.00	0.00%	\$0.00	0.00%
Mobilize DB 600/800	Cost assigned to WC 167 HIOS PLTF	<input type="checkbox"/>	0.00	0.00%	\$6,250.00	0.68%
Mobilize CB 240 & Tug		<input type="checkbox"/>	31.40	4.95%	\$29,700.00	3.23%
Setup Derrick Barge		<input checked="" type="checkbox"/>	5.25	0.83%	\$33,789.00	3.68%
Cut Deck/Equip/Misc		<input checked="" type="checkbox"/>	3.46	0.55%	\$23,998.56	2.61%
Remove Equipment		<input checked="" type="checkbox"/>	1.50	0.24%	\$10,404.00	1.13%
Remove 4 Pile Deck	3-Pile	<input checked="" type="checkbox"/>	9.35	1.47%	\$64,851.60	7.06%
Jet/Airlift Pile Mud Plug		<input checked="" type="checkbox"/>	6.25	0.98%	\$86,700.00	9.44%
Standby for Daylight Det.		<input checked="" type="checkbox"/>	8.00	1.26%	\$55,488.00	6.04%
Pre/Post Detonat'n Survey		<input checked="" type="checkbox"/>	1.00	0.16%	\$13,186.00	1.44%
Sever Piles- Explosive		<input checked="" type="checkbox"/>	2.44	0.38%	\$17,514.32	1.91%
Remove Jacket - Meth 1		<input checked="" type="checkbox"/>	13.75	2.17%	\$187,275.00	20.40%
Demob CB 240 & Tug		<input type="checkbox"/>	31.40	4.95%	\$15,700.00	1.71%
Pick Up DB Anchors		<input checked="" type="checkbox"/>	5.25	0.83%	\$33,127.50	3.61%
Demob DB 600/800	Cost assigned to WC 167 HIOS PLTF	<input type="checkbox"/>	0.00	0.00%	\$6,250.00	0.68%
Site Clearance - with Trawler	Cost assigned to WC 167 HIOS PLTF	<input checked="" type="checkbox"/>	0.00	0.00%	\$33,600.00	3.66%
Site Clearance Verify	Cost assigned to WC 167 HIOS PLTF	<input checked="" type="checkbox"/>	0.00	0.00%	\$13,350.00	1.45%
Offload CB 240		<input type="checkbox"/>	456.00	71.83%	\$75,632.00	8.24%
Task Total			623.05	98.14%	\$738,615.98	80.45%
Misc. Work Provision (15.00%)			8.44	1.33%	\$85,992.60	9.37%
Weather Contingency (6.00%)			3.37	0.53%	\$34,397.04	3.75%
Consumables					\$0.00	0.00%
Waste Disposal					\$0.00	0.00%
Structure & Equipment Disposal					\$0.00	0.00%
Offloading					\$0.00	0.00%
Storage / Scrapping					\$0.00	0.00%
Reef Donation					\$0.00	0.00%
Cost of Engineering (8.00%)					\$59,089.28	6.44%
Total:			634.86	100.00%	\$918,094.90	100.00%



Enterprise Products Partners L.P.
Platform Decommission Resources Breakdown
WC 167 HIOS-Flare (Ver 1)

Resource Used	Unit Cost		Cost	
Cargo Barge 240	\$2,928.00	per Day per Barge	\$55,632.00	6.06%
CB 240 & Tug	\$500.00	per Hour per Barge/Tug	\$64,275.00	7.00%
CB Damage Deduct	\$20,000.00	per Cargo Barge	\$20,000.00	2.18%
Decomm Platform	\$0.00	Calculated from tables	\$0.00	0.00%
Derrick Barge 600/800	\$5,300.00	per Hour per barge	\$404,125.00	44.02%
Dive Serv - Basic	\$0.00	Calculated from tables	\$58,560.00	6.38%
Expl Charge - Piling	\$0.00	per Inch of Outside Diam	\$15,000.00	1.63%
Expl Technician	\$130.00	per Hour	\$10,229.70	1.11%
Helicopter Trips	\$6,250.00	per Round Trip	\$18,750.00	2.04%
Nets (Heavy Duty, Non-Repairable)	\$4,800.00	ea	\$14,400.00	1.57%
Nets (Heavy Duty, Repairable)	\$2,400.00	ea	\$19,200.00	2.09%
Nets (Non-Repairable)	\$2,150.00	ea	\$6,450.00	0.70%
Nets (Repairable)	\$1,150.00	ea	\$6,900.00	0.75%
NMFS Observers (2)	\$126.00	per Hour	\$5,481.00	0.60%
Pipeline Survey	\$112.00	per Hour	\$8,813.28	0.96%
Rig Up CB 240	\$14,000.00	per Barge	\$14,000.00	1.52%
Trawler	\$161.00	per Hour	\$0.00	0.00%
Work Boat	\$350.00	per Hour	\$16,800.00	1.83%



Enterprise Products Partners L.P.

Platform Decommission Cost Breakdown

WC 167 HIOS-Flare (Ver 1)

Task	Task Hours		Task Cost	
Fab Explosive Charges	0.00	0.00%	\$15,000.00	1.63%
Expl Charge - Piling			\$15,000.00	
Platform Removal Preparation	48.00	7.56%	\$16,800.00	1.83%
Decomm Platform			\$0.00	
Work Boat			\$16,800.00	
Mobilize Work Boat	0.00	0.00%	\$0.00	0.00%
Work Boat			\$0.00	
NMFS Observers (2)			\$0.00	
NMFS Marine Observation	0.00	0.00%	\$0.00	0.00%
Work Boat			\$0.00	
NMFS Observers (2)			\$0.00	
Demob Work Boat	0.00	0.00%	\$0.00	0.00%
Work Boat			\$0.00	
Mobilize DB 600/800	0.00	0.00%	\$6,250.00	0.68%
Derrick Barge 600/800			\$0.00	
Dive Serv - Basic			\$0.00	
Pipeline Survey			\$0.00	
Expl Technician			\$0.00	
Helicopter Trips			\$6,250.00	
Mobilize CB 240 & Tug	31.40	4.95%	\$29,700.00	3.23%
CB 240 & Tug			\$15,700.00	
Rig Up CB 240			\$14,000.00	
Setup Derrick Barge	5.25	0.83%	\$33,789.00	3.68%
Derrick Barge 600/800			\$27,825.00	
Dive Serv - Basic			\$4,032.00	
Pipeline Survey			\$588.00	
Expl Technician			\$682.50	
NMFS Observers (2)			\$661.50	



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
WC 167 HIOS-Flare (Ver 1)

		Task Hours		Task Cost	
Task					
Cut Deck/Equip/Misc		3.46	0.55%	\$23,998.56	2.61%
	Derrick Barge 600/800			\$18,338.00	
	Dive Serv - Basic			\$2,657.28	
	Pipeline Survey			\$387.52	
	Expl Technician			\$449.80	
	NMFS Observers (2)			\$435.96	
	CB 240 & Tug			\$1,730.00	
Remove Equipment		1.50	0.24%	\$10,404.00	1.13%
	Derrick Barge 600/800			\$7,950.00	
	Dive Serv - Basic			\$1,152.00	
	Pipeline Survey			\$168.00	
	Expl Technician			\$195.00	
	NMFS Observers (2)			\$189.00	
	CB 240 & Tug			\$750.00	
Remove 4 Pile Deck		9.35	1.47%	\$64,851.60	7.06%
	Derrick Barge 600/800			\$49,555.00	
	Dive Serv - Basic			\$7,180.80	
	Pipeline Survey			\$1,047.20	
	Expl Technician			\$1,215.50	
	NMFS Observers (2)			\$1,178.10	
	CB 240 & Tug			\$4,675.00	
Jet/Airlift Pile Mud Plug		6.25	0.98%	\$86,700.00	9.44%
	Derrick Barge 600/800			\$66,250.00	
	Dive Serv - Basic			\$9,600.00	
	Pipeline Survey			\$1,400.00	
	Expl Technician			\$1,625.00	
	NMFS Observers (2)			\$1,575.00	
	CB 240 & Tug			\$6,250.00	



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
WC 167 HIOS-Flare (Ver 1)

		Task Hours		Task Cost	
Task					
Standby for Daylight Det.		8.00	1.26%	\$55,488.00	6.04%
	Derrick Barge 600/800			\$42,400.00	
	Dive Serv - Basic			\$6,144.00	
	Pipeline Survey			\$896.00	
	Expl Technician			\$1,040.00	
	NMFS Observers (2)			\$1,008.00	
	CB 240 & Tug			\$4,000.00	
Pre/Post Detonat'n Survey		1.00	0.16%	\$13,186.00	1.44%
	Derrick Barge 600/800			\$5,300.00	
	Dive Serv - Basic			\$768.00	
	Pipeline Survey			\$112.00	
	Expl Technician			\$130.00	
	NMFS Observers (2)			\$126.00	
	CB 240 & Tug			\$500.00	
	Helicopter Trips			\$6,250.00	
Sever Piles- Explosive		2.44	0.38%	\$17,514.32	1.91%
	Derrick Barge 600/800			\$12,932.00	
	Dive Serv - Basic			\$1,873.92	
	Pipeline Survey			\$546.56	
	Expl Technician			\$634.40	
	NMFS Observers (2)			\$307.44	
	CB 240 & Tug			\$1,220.00	
Remove Jacket - Meth 1		13.75	2.17%	\$187,275.00	20.40%
	Derrick Barge 600/800			\$145,750.00	
	Dive Serv - Basic			\$21,120.00	
	Pipeline Survey			\$3,080.00	
	Expl Technician			\$3,575.00	
	CB 240 & Tug			\$13,750.00	



Enterprise Products Partners L.P.
Platform Decommission Cost Breakdown
WC 167 HIOS-Flare (Ver 1)

Task	Task Hours		Task Cost	
Demob CB 240 & Tug	31.40	4.95%	\$15,700.00	1.71%
CB 240 & Tug			\$15,700.00	
Pick Up DB Anchors	5.25	0.83%	\$33,127.50	3.61%
Derrick Barge 600/800			\$27,825.00	
Dive Serv - Basic			\$4,032.00	
Pipeline Survey			\$588.00	
Expl Technician			\$682.50	
Demob DB 600/800	0.00	0.00%	\$6,250.00	0.68%
Derrick Barge 600/800			\$0.00	
Dive Serv - Basic			\$0.00	
Pipeline Survey			\$0.00	
Expl Technician			\$0.00	
Helicopter Trips			\$6,250.00	
Site Clearance - with Trawler	0.00	0.00%	\$33,600.00	3.66%
Trawler			\$0.00	
Nets (Heavy Duty, Non-Repairable)			\$14,400.00	
Nets (Heavy Duty, Repairable)			\$19,200.00	
Site Clearance Verify	0.00	0.00%	\$13,350.00	1.45%
Trawler			\$0.00	
Nets (Non-Repairable)			\$6,450.00	
Nets (Repairable)			\$6,900.00	
Offload CB 240	456.00	71.83%	\$75,632.00	8.24%
Cargo Barge 240			\$55,632.00	
CB Damage Deduct			\$20,000.00	
Total	623.05	98.14%	\$738,615.98	80.45%