



USAID | **WEST BANK/GAZA**
FROM THE AMERICAN PEOPLE

Task Order 00006 - Qabatiya Well, Pump Station and Conveyance System

Monthly Progress Report # 11

For the Month of April 2014

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Views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.



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List of Acronyms and Abbreviations

ANSI	American National Standards Institute
ASQ	American Society for Quality
AWWA	American Water Works Association
CMC	Construction Management Contractor
CQC	Contractor Quality Control
CSMP	Construction Safety and Health Management Plan
EPA	Environmental Protection Agency
EQA	Environmental Quality Authority
HSWA	Federal Hazardous and Solid Waste Amendments
HSE	Health Safety & Environmental
IADC	International Association of Drilling Contractors
ISEA	Industrial Safety Equipment Association
IQC	Indefinite Quantity Contract
ISO	International Organization for Standardization
MIC	Man in Charge
NCR	Non Conformance Report
NUC	Notice of Unsafe Conditions
OSHA	Occupational Safety and Health Administration
PA	Palestinian Authority
PWA	Palestinian Water Authority
PPE	Personal Protective Equipment
QCP	Quality Control Plan
QMS	Quality Management System
RCS	Radio Communication System
RFI	Request for Information
SCADA	Supervisory Control and Data Acquisition
TDY	Temporarily Deployed for a Year
USAID	United States Agency for International Development
WP	Work Plan
WBWD	West Bank Water Department
WEF	Water Environment Federation



1. DASHBOARD - INTRODUCTION AND SUMMARY

Monthly Report No.11 covers activities accomplished during the month of April 2014 and previews activities anticipated during the next month, May 2014.

1.1 Purpose and Background

The USAID West Bank and Gaza Infrastructure Needs Program II (INP II) is designed to support U.S. Government efforts with the peace process by improving Palestinian access to basic infrastructure and services throughout the West Bank, and if conditions and funding permit, in Gaza.

Infrastructure in the West Bank and Gaza suffers from years of neglect and lack of investment. The USAID Mission INP II focuses on the rehabilitation and construction of roads, schools, water, and wastewater projects. The USAID objective is to help the Palestinian economy by improving Palestinian access to basic infrastructure and services.

1.2 Objectives of Task Order 00006

The objective of this Task Order is to develop, rehabilitate and improve an existing well at Qabatiya and to install and equip that well with a new pump and appurtenant equipment. The Task Order also includes construction of a conveyance system that will connect the Qabatiya Well to Al-Zababdeh junction.

1.3 Work/Activity Status

The percent complete, Start and Finish information for each major component is shown on the following table.

Activity Name	Percent Complete	Planned Start	Planned Finish
		Actual Start	Actual Finish
Preconstruction Coordination with PWA	100%	<u>14 May 2013</u>	<u>18 June 2013</u>
		14 May 2013	18 June 2013
Mobilization	100%	<u>14 May 2013</u>	<u>18 June 2013</u>
		14 May 2013	18 June 2013
Submittals	31%	<u>14 May 2013</u>	<u>03 December 2014</u>
		14 May 2013	TBD
Procurement and Delivery	6%	<u>26 August 2013</u>	<u>10 November, 2014</u>
		26 August 2013	<u>TBD</u>
Construction Phase	10.85%	<u>12 July 2013</u>	<u>14 December 2014</u>
		12 July 2013	TBD
Post Construction Phase	0%	<u>14 December 2014</u>	<u>07 January 2015</u>
		TBD	TBD



1.4 Key Information

Contract Number:	AID-294-I-12-00001
Task Order Number:	AID-294-TO-13-00006
Notice To Proceed:	14 May2013
Project Original Duration:	550 Days
Project Original Completion Date:	14 November 2013
BOQ Item Original Amount:	\$6,858,760.00
Day Work Original Amount:	\$850,000.00
Contract Value:	\$ 7,708,760.00
Project Modified Duration:	604 Days
Project Modified Completion Date:	07 January 2015
BOQ Item Modified Amount:	\$ 7,167,166.03
Day Work Modified Amount:	\$ 541,593.97

2. PROJECT ADMINISTRATION

This Task Order is one of several task orders through which the USAID West Bank and Gaza Infrastructure Needs Program II (INP II) that is designed to improve Palestinian access to basic infrastructure and services throughout the West Bank. Some activities detailed in this report share a common base with the overall project or other Task Orders.

2.1. Submission of Most Recent Monthly Report

This document is the eleventh in a series of Monthly Reports to be prepared by CDM Smith providing a summary of key project activities during consecutive monthly reporting periods.

2.2. Submission of Most Recent Invoices

The CDM Smith team is working to prepare invoice No. 5 and will provide a DRAFT copy to the CMC for review and approval during May 2014. The following table is a summary of the current invoice status.

BOQ Price	\$6,858,760.00
Total Day Works	\$ 850,000.00
Amount Obligated	\$7,708,760.00
Variation Orders (from TDW)	\$ 308,406.03
Task Order Price (BOQ +VO)	\$7,167,166.03
Most Recent Invoice	\$ 248,893.01
Invoiced to Date	\$ 1,089,108.3



2.3. Staff Information

At the end of this reporting period, 30 April 2014, 18 team members are working on the overall project and other Task Orders in the West Bank. Following are some key Task Order and support staff for the project:

Anthony Mirabella	VP and IQC Manager
Amy O’Connell	Civil Engineer/Contract Specialist
Shakoor Bitar	Task Order Manager - Key Personnel
Abdel Rahman Bakeer	Safety and Environmental – Key Personnel
Talal Mahasin	QA/QC Manager – Key Personnel
Fares Hijjawi	Project Engineer
Abed Ahmad	Office Assistant/CMC Office Al-Zababdeh
Anas Al-Barq	Electrical/Instrumentation Engineer
Yazan Meqbel	Project Engineer
Mousa Anbar	Finance and Administration Manager
Mohammad Bilbeisi	Finance Assistant Manager
Hiba Othman	Admin Assistant
Arab Masri	Scheduler and Controls Engineer
Anas Abu Sneineh	Security and Logistic Manager
Murad Abu Nasrah	Office Assistant
Ali Odeh	Project Engineer
Hiba Mousa	Office Assistant/ CMC Office Ramallah
Tamadur Abu Alrub	Document Control Officer

The following specialty staff from CDM Smith home office is still supporting the project activities from CDM Smith home offices in USA and spent a significant time during the reporting period in the West Bank:

- Mr. Tony Mirabella who serves as IQC Manager for the overall project and is a Vice President of CDM Smith. Mr. Mirabella arrived to the West Bank on Thursday 24 April 2014. Mr. Mirabella is planning to leave the West Bank on Friday 2 May 2014. Mr. Mirabella communicates with the West Bank team daily. Mr. Mirabella is following all work activities that take place at this project in communicating via emails and daily phone calls.
- Mr. Kevin Connors who serves as Senior Project Manager at CDM Smith arrived to the West Bank on Wednesday 23 April 2014 and planning to leave on Saturday 3 May, 2014. Mr. Connors is supporting the work activities in this project as well as in task order 00007. Mr. Connors communicates with the West Bank team daily via emails and daily phone calls.
- Ms. Amy O’Connell Civil and Environmental Engineer of CDM Smith Mobilized to the West Bank on 23 March 2014 to join CDM Smith team to support and expedite the engineering analysis and pricing the variation orders and redesigns received for the project. Ms. O’Connell will stay in the West Bank till the 1st week of May 2014. Ms. O’Connell will continue coordinating with West Bank Staff after that. Ms. O’Connell may return to the West Bank upon request.



3. ACCOMPLISHMENTS

Following is a summary of significant meetings, correspondence and submittals within this reporting period.

3.1. Accomplishments

Following are key accomplishments for the reporting period.

3.1.1. General, Overall and Project Wide

- Continue construction submittals. Some of the main construction submittals during this reporting period are; Structural shop drawing for pit and sump grating (grating frame for pit and sump), Updated CPM Construction Schedule, Structural Shop Drawing for 1000m³ balance tank (pits and sump plans), Structural shop drawing for chambers along conveyance system, Degree of compaction Test (Field Density) for the 3rd. Base coarse layer under balance tank foundation – Report Ref. No. M/1404/31, Test report on granular base coarse material under the balance tank foundation 4TH. Layer. Ref No. M/1404/25, updated submittal registry for the period 01 March 2014 to 31 March 2014,
- Test reports on concrete compressive strength and base course material for well site, etc.; please see the attached updated submittal log.
- Continue Material Sample submittals.
Electrical: Resubmittal of Fans for (chemical, switch gear and IEC rooms).

3.1.2. Submittals for Task Order 00006

A summary of significant submittals follows, however a table covering all submittals for the reporting period is included in the Appendix:

- Completion of the pre-construction submittals.
- Updated CPM Construction Schedule TO-00006.
- Continue of the following construction submittals:
 - Structural shop drawing for pit and sump grating (grating frame for pit and sump);
 - Test report on concrete compressive strength for sump pit foundation and half of walls (28-day result). Ref.M/1403/142;
 - Degree of compaction Test (Field Density) for the 3rd. Base coarse layer under balance tank foundation – Report Ref. No. M/1404/31;
 - Test report on asphalt pavement compaction at stations 2500, 2730, 3000, 3360 and 3600 on conveyance system. Ref-M/1404/24);
 - Test Report On Φ 22 Reinforcing Bars Ref-M/1404/95,;
 - Test report on granular base coarse material under the balance tank foundation 4TH. Layer. Ref No. M/1404/25;
 - Updated submittal registry up to 31 March 2014;
 - Underground Raceway System (Duct Banks) and
 - *Other submittals as listed in the related appendix.*



3.2. Labor and Equipment

3.2.1. Geo MIS

All Implementing Partners working for the West Bank and Gaza Mission track and record labor (work force) data relative to employment of Palestinian people. The Geo MIS system includes assignment of a job classification to each worker and summation of Job Days for each classification on the project. The following table includes the Geo MIS data recorded and submitted to the Mission relative to the reporting period.

Date	Management (Person day)	Engineers (Person day)	Skilled Labor (Person day)	Unskilled Labor (Person day)	Other (Person day)	Total (Person day)
May 2013	87	44	0	0	3	134
June 2013	125	51	4	0	0	180
July 2013	115	44	79	46	17	301
Aug 2013	93	73	0	22	0	188
Sep 2013	127	179	72	32	4	414
Oct. 2013	125	179	89	39	8	440
Nov.2013	101	173	49	37	0	360
Dec. 2013	109	164	139	67	0	480
Jan. 2014	105	174	205	167	8	659
Feb. 2014	103	190	193	212	42	739
March 2014	114	207	130	122	21	594
April 2014	116	233	78	79	0	506

3.2.2. Project Beneficiaries

Total number of Beneficiaries is 81,951:

- Number of Male Beneficiaries 41,623 Male = 50.79%
- Number of Female Beneficiaries 40,328 Female = 49.21%
- Male Beneficiaries to Age 17 19,663 47.24%
- Female Beneficiaries to Age 17 19,051 47.24%
- Male Beneficiaries 18 to 25 6,568 15.78%
- Female Beneficiaries 18 to 25 6,364 15.78%
- Male Beneficiaries 26 and older 15,392 36.98%
- Female Beneficiaries 26 and older 14,913 36.98%

3.2.3. Equipment

For this reporting period, CDM Smith continued placing of layers of base course material under balance tank foundation, compacting the base course layers and casting concrete for the balance tank pits and booster



pump sump pit. In addition to that, blinding concrete under the balance tank foundation was casted. The following is the equipment List:

Equipment	Date used	Type	Model
Backhoe	01/04/2014	JCB	2011
Backhoe	21/04/2014	JCB	2011
Backhoe	23/04/2014	JCB	2011
Backhoe	24/04/2014	JCB	2011
Backhoe	26/04/2014	JCB	2011
Backhoe	29/04/2014	JCB	2011
Bobcat	28/04/2014	CAT	2013
Bobcat	29/04/2014	CAT	2013
Bobcat	30/04/2014	CAT	2013
Concrete mixer	17/04/2014	DAF	1998
Concrete Pump	17/04/2014	VOLVO	1999
Roller	01/04/2014	BOMAG	1995
Roller	06/04/2014	BOMAG	1995
Roller	07/04/2014	BOMAG	1995
Roller	28/04/2014	BOMAG	1995
Compactor	21/04/2014	BOMAG	
Compactor	22/04/2014	BOMAG	
Compactor	23/04/2014	BOMAG	
Compactor	24/04/2014	BOMAG	
Compactor	26/04/2014	BOMAG	
Compactor	27/04/2014	BOMAG	
Compactor	28/04/2014	BOMAG	
Concrete mixer	30/04/2014	DAF	1998
Concrete Pump	30/04/2014	VOLVO	1999

3.3. Meetings and Correspondence with USAID

- Thursday 04/03/2014 – Monthly USAID CO meeting was held in Movinpick Hotel in Ramallah



3.4. Meetings and Correspondence with CMC and Subcontractors

- Tuesday 04/01/2014 – Technical coordination meeting with BV at Ramallah BV’s Office.
- Wednesday- 04/02/2014 – Coordination meeting with BV at Azzababdeh Office.
- Monday – 04/14/2014 – Technical meeting with BV.
- Monday – 04/21/2014 – Coordination meeting with ABCo.
- Thursday – 04/24/2014 – Bi-Weekly meeting # 15 held at Engineer’s Primary Field Office.

3.5. Procurement/Subcontract Actions

- The subcontract that has been awarded to Site Group Company for well testing services for the development of Qabatiya Well has kept unchanged. The second subcontract to Arab Brothers Contracting Co. for the installation of the conveyance system and construct all civil, mechanical and electrical works related to Qabatiya Well Site has been amended to include the VO’s received from USAID.
- A Purchase Order has been issued to Future Iron Pipes (FIP) to supply the 250mm steel pipes lined with concrete and coated with polyethylene to supply 3622 linear meters of pipes for the conveyance system.
- A subcontract has been awarded to MOREX 71 LTD. – Institute for Non Destructive Testing to do all the required Radiographic testing for this project.

3.6. Quality Control

The Quality Control Manager, prepared submittal register log and Quality Control Plan. He also worked with Subcontractors to review and prepare subcontractors’ QC plans. Request for Information log is also prepared. Please see the attached updated logs.

During the reporting period the CDM Smith’s Quality Manager attended plate bearing test took place on 30 April, 2014. He also continued assuring the quality of concrete delivered from Me’mar batch plant to Qabatiya Well Site.

Moreover, the CDM Smith’s Quality Manager assured that all delivered base course material to Qabatiya Well Site are of good quality and complies with contract documents and specifications.

3.7. Safety

Considering all activities that took place during this reporting period the task order has not experienced any safety issues. CDM Smith as well as USAID and B&V objective is to implement a Health and Safety Program that will reduce the number of injuries, exposures, and illnesses to an absolute minimum. Our mutual goal is ZERO accidents, exposures, and injuries.

CDM Smith trained the new laborers of the nominated subcontractor Arab Brothers Co. for the hazards on the ongoing work activities as well as the safety precautions as per CDM smith’s health and safety policy. CDM Smith and the nominated subcontractor Arab Brothers Co were trained on how to use all required signs, PPE, and all required tools and safety precautions. The laborers were trained on safety precautions that shall be used during the construction works activities at Qabatiya Well and pump station site.

CDM Smith safety officer presents the Emergency Procedures for the employees and the laborers of ABC and their second tier subcontractor on daily basis and as required. This is done in order to make sure that



all of them are familiar with the project emergency procedures, and how they can use the fire extinguishers and take all required steps in case of, injury, fire, evacuation, or other emergency situations.

CDM Smith safety officer as part of his job is always trying to make sure that the jobsite has the basic first-aid kit and that a procedure is in place to replace expended, used or outdated items. First-aid kits are available in all CDM Smith and CMC offices as well as project vehicles.

3.8. Public Relations

CDM Smith continued the coordination and public relations activities during the reporting period. Meetings were held with Al-Zababdeh Municipality. The municipality as expected showed cooperation and is ready to cooperate in any issue that may appears during construction of the project in the future.

3.9. Project Permitting & Security

The location of the project in the north of the West Bank with parts of the project located in area C requires continuous coordination with civil administration to facilitate the mobility of CDM Smith and subcontractors' personnel and vehicles to the project site if checkpoints exist or if any activity needs coordination.

CDM Smith Logistics and Security Manager had a regular coordination meeting with the coordination office in Beit Eil. CDM Smith Logistics and Security Manager is always ready to coordinate with the required authority, or with the civil administration to facilitate any difficulty that may face the project construction.

4. SCHEDULE

4.1. Progress vs. Planned

Performance % Complete =	18.76%
Schedule % Complete=	33.11%

To mitigate the delay CDM Smith will prepare and submit a recovery plan to cover the delay.

5. OUTLOOK FOR NEXT REPORTING PERIOD

The following subsections provide information on anticipated activities through the next reporting period.

5.1. Planned Submission of Next Invoices

CDM Smith will prepare Invoice No. 5 that is expected to be issued to CMC during May 2014. This invoice will cover the Well Alignment Test held in July and the report submitted late September 2013 as well as the Constant Rate Pump Test held late October 2013 and the water sampling analysis prepared and submitted during November 2013.

5.2. Planned Activities Anticipated During May 2014

The Following activities are anticipated to be submitted, constructed or implemented during April 2014:

- Finish and submit to CMC and USAID the Variation Order related to the Re-designs at the well site received from CMC on 27 March 2014.



- Finish and submit all remaining smaller Variation Orders for changed items within the project.
- Start the construction of concrete chambers on the conveyance system;
- Work on the foundation of the Balancing Tank after completing the base coarse material under the foundation of the balance tank.

5.3. Planned Staff Changes

The CDM Smith team is actively searching for additional staff to serve in several areas including: Contract Specialist, Schedules/Controls Specialist, Finance/Accounting Assistant and Site/Office engineers are also required. These positions will be filled as needed and as the overall workload increases. Various technical specialists will also work from other CDM Smith offices and/or work TDY in the West Bank as needed.

5.4. Planned Meetings and Correspondence with USAID

Monthly meetings with USAID will continue. Monthly CO meeting for May 2014 is not scheduled by USAID until this date.

5.5. Planned Meetings and Correspondence with CMC

Coordination meetings are scheduled for each Task Order every two weeks. Task Order 00006 meetings are expected on 08 and 22 May 2014.

5.6. Planned Meetings and Correspondence with Others

CDM Smith stands ready to meet with other stakeholders as needed.

6. ISSUES AND CONSTRAINTS

CDM Smith works to actively communicate potential problems to the CMC and USAID. The following subsections cover current and anticipated issues and constraints.

6.1. Administration

No Administrative Constraints were faced during the reporting period. The cooperation and the understanding of the project situation between the Contractor and the CMC allowed resolving all minor problems appeared during the reporting period.

6.2. Qabatiya Conveyance System :

The pipes for Qabatiya Conveyance system were delivered to the site on 22nd and 24th December 2013. The work in the pipeline installations as part of the conveyance system started immediately after the contractor completed all requirements related to the pipeline installations. The work at the pipeline installations that started early January 2014 was finished on 22 March 2014.

6.3 Qabatiya Well Site

The construction of foundation for the Balancing Tank will follow placing of compacted base coarse material and concrete blinding at the balancing tank location.

The Redesigns associated with changing the well pump and site re-arrangement of buildings was received from the engineer on 27 March 2014. CDM Smith is doing all required efforts with the subcontractors and



vendors to price and submit the variation order request within the timeframe allocated for such work by USAID and CMC.

6.3. Others

No other issues at this time.

7. APPENDIX

- Photos
- Meeting Minutes
- Submittals summary table
- Invoices log
- Request for Information-RFI log
- Geo MIS logs
- Inspection Request Log
- Variation Order Log
- Updated CPM Schedule & One Month Ahead Schedule

END OF REPORT

**Task Order 00006 - Qabatiya Well,
Pump Station and Conveyance**

Appendix

Task Order 00006 Photos



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Compaction test on 3rd layer of base course under BT foundation, 01 April 2014



Steel reinforcement works for the balance tank pits and sump, 01 April 2014



CDM Smith staff analyzing the re-designs provided by CMC under VOR # 04, 02 April 2014



HCL technician conducting asphalt core test at conveyance system, 02 April 2014



Steel reinforcement works for the balance tank pits and sump, 03 April 2014



Compacting the 4th base course layer under balance tank foundation, 06 April 2014



Compacting the 4th base course layer under balance tank foundation, 07 April 2014



Compaction test on the 4th base course layer under balance tank foundation, 07 April 2014



Shuttering works for balance tank pits and sump, 07 April 2014



Steel reinforcement works for BT pits and sump, 09 April 2014



Steel reinforcement works and water stop installation for BT pits and sump, 10 April 2014



Steel reinforcement works for BT pits and sump, 12 April 2014



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Installing water stop for BT pits and sump, 13 April 2014



Steel reinforcement works for BT pits and sump, 14 April 2014



Toolbox safety meeting at QBW site, 15 April 2014



Closing the shuttering of BT pits and sump, 15 April 2014



Closing the shuttering of BT pits and sump, 16 April 2014



QC monitoring at Me'mar concrete batch plant, 17 April 2014



Casting concrete for BT pits and sump, 17 April 2014



HCL technician filling the mold of shrinkage test, 17 April 2014



HCL technician filling cubes for compressive strength, 17 April 2014



De-shuttering of BT pits and sump, 19 April 2014



Installing burlap mats on BT pits for curing, 20 April 2014



Compacting 4th base course layer under BT foundation, 21 April 2014



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Preparing the walls and footing of BT pits for damp proofing, 21 April 2014



Housekeeping and cleaning the construction site, 21 April 2014



Compaction test on 4th base course layer under BT foundation, 22 April 2014



Filling tie rod openings at external walls of BT pits, 22 April 2014



Cleaning the exposed water stop at BT pits from concrete, 22 April 2014



Damp proofing the walls and footing of BT pits, 22 April 2014



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Backfilling single size aggregate behind BT pits, 23 April 2014



Backfilling base course material behind BT pits, 23 April 2014



Compacting the base course layer behind BT pits, 23 April 2014



Bi weekly progress meeting with USAID, CMC, CDM Smith and ABC, 24 April 2014



Compacting the last base course layer under BT foundation, 27 April 2014



Trimming the edges of base course layers under BT foundation, 28 April 2014



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Excavating trenches for the underdrain system under balance tank foundation, 29 April 2014



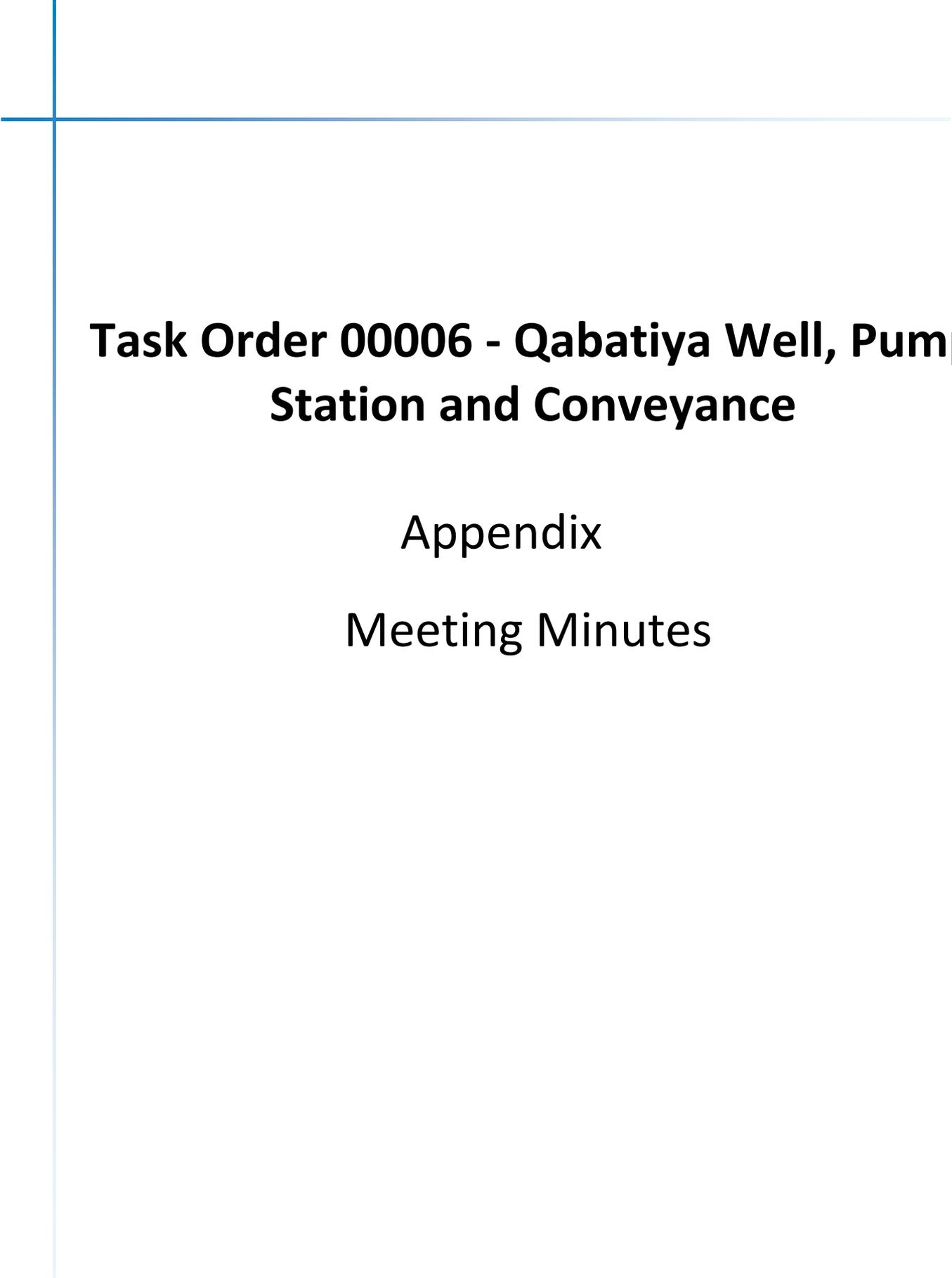
Plate bearing test on top of last base course layer under BT foundation, 30 April 2014



Compaction test on top of last base course layer under BT foundation, 30 April 2014



Casting lean concrete under BT foundation, 30 April 2014



Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Meeting Minutes

Meeting Minutes
Qabatiya Well Pump Station TO 13-00006
Bi-Weekly Progress Meeting #15

Date:

Thursday, April 24, 2014

Timing:

02:00 PM – 03:00 PM

Location:

Primary Field Office
Al Zababida, Palestine

Attendees:

PWA/WBWD

USAID

Mr. Anan Masri
Mr. Rami Abu Ktaish

Black and Veatch

Mr. Adnan Safi
Mr. Abe Siag
Mr. Osamah Khalili
Mr. Musab Al-Kayed
Mr. Nael Nazzal
Mr. Moayyad Shawawra
Mr. Emad Dweikat
Ms. Iman Jaradat

CDM Smith and Subcontractors

Mr. Shakoor Bitar
Mr. Talal Mahasin
Mr. Abed Bakeer
Mr. Mousa Anbar
Mr. Ahmad Amr
Ms. Arab Masri
Mr. Fares Hijjawi
Mr. Ali Odeh
Mr. Anas Barq

Notes Prepared by:

Osamah Khalili, Black & Veatch

Purpose:

Bi-weekly progress meeting for Qabatiya well pump station and conveyance system Project– TO 13-00006; aimed to review progress of work, discuss project issues and provide solutions where required.

We believe that these minutes accurately reflect what transpired at the meeting. Unless we are notified in writing to the contrary by 2 working days, the minutes will stand as written.

Abbreviation List:

ASAP: As Soon As Possible, **BV:** Black and Veatch, **DCL:** District Coordination Liaison, **INFO:** Information, **CDM:** Camp Dresser & McKee, **PWA:** Palestinian Water Authority, **WBWD:** West Bank Water Department, **USAID:** United States Agency for International Development, **VOR:** Variation Order Request.

1. Project Key Data:

• Notice of Award	April 02, 2013
• Contract Signing	April 02, 2013
• Notice to Proceed	May 14, 2013
• Project Duration	550 Days
• Modified Project Duration	604 Days
• Contract Amount	\$ 7,708,760.00
• Original Day Work Amount	\$ 850,000.00
• Modified Day Work Amount	\$ 541,593.97
• Project Planned Completion Date	Nov. 14, 2014
• Modified Completion Date	January 07, 2015
• Project Elapsed Time	346 Days (57%)
• Project Planned Overall % of Completion	33.02 %
• Project Actual Overall % of Completion	18.65 %
• Total Float (Variance duration)	-93 Days

2. Documents distributed at this meeting:

- Copy of Progress Meeting Agenda #15.
- Copy of Monthly Report Summary.

3. Documents Attached:

- Progress Meeting Agenda #15.
- Attendees List.

4. Next Meeting is scheduled at 02:00 PM on Thursday; May 08, 2014 at Black & Veatch Primary Field Office, Al Zababida.

Items Discussed:

No.	Ref.	Description	Action By	Date
1	PM #01	<u>Safety.</u> 1.1 General Site Safety. BV stated that the overall site safety is generally acceptable.	Info	
	New	1.2 Housekeeping & Scaffolding at Site. BV requested from CDM Smith to ensure proper housekeeping at all times and on daily basis. Furthermore, BV requested from CDM Smith to ensure that formwork materials used for scaffolding are in good condition. CDM Smith stated that steel scaffolding system will be used on site as per their plan.	CDM Smith	All Times
2	New	<u>Quality.</u> 2.1 Form Work Material. BV advised that the formwork can be re-used for shuttering if it is in good condition and the section of the structure to be used for is covered by another section or it is going to be underground.	CDM Smith	All Times
	New	2.2 Tie Rods. CDM Smith/Arab brothers Co. requested from BV to use tie rod 8 mm dia instead of 16 mm dia for formwork at the balance tank. Also; added that the 8mm tie rod was used in the retaining walls and proved to be successful. BV advised that the diameter of the tie rod is subject to the design calculations of the formwork. BV also added that the rejection of the 8mm dia. Tie rods was not due to its diameter but because there is no evidence that such tie rod will protect leakage. Also there isn't any manufacturer data sheet for the durability of such tie rod. BV advised CDM Smith /ABC that any replacement of the approved tie rods of 16mm dia. is subject to design calculations that such tie rod is capable to support the formwork as well as manufacturer data sheets for the water tightness and durability of material.	Info Info	



3	PM #01	<p><u>CDM Smith Progress of Work.</u></p> <p>3.1 Schedule Progress.</p> <p>CDM Smith stated that their plan is to continue working on the balance tank. BV advised CDM Smith to overcome the delay in the balance tank.</p> <p>BV advised CDM Smith to start the construction of the facility buildings. CDM Smith stated that they can't start any other work before they get the approval on Variation order No. 04.</p>	Info	
	New	<p>3.2 Variation Order #04.</p> <p>BV requested from CDM Smith to expedite the submission of variation order No. 04.</p> <p>CDM Smith stated that they will conduct a meeting with USAID to discuss the draft copy of variation order No.4, and added that they will work on submitting the variation order by April 28, 2014.</p>	CDM Smith	ASAP
	PM #14	<p>3.3 Two Weeks Look Ahead.</p> <p>CDM Smith stated that the plan for the upcoming two weeks will be as following:</p> <ol style="list-style-type: none"> 1. Continue construction of the balance tank. 2. Casting lean concrete under balance tank. 	Info	CDM Smith
4	New	<p><u>Submittals.</u></p> <p>4.1 Request for Information.</p> <p>BV asked CDM Smith about the time frame to finalize submitting the RFIs related to the design modifications.</p> <p>CDM Smith stated that they are still working on the RFIs and cannot give accurate time frame at this stage, but will put extra efforts to finalize all of them ASAP.</p>	Info	ASAP

	PM #14	4.2 Monthly Update. BV reminded CDM Smith to submit updates for the following plans on a monthly basis: <ul style="list-style-type: none"> • Construction Safety Plan. • QA/QC Plan. • Construction Risk Management Plan. • Environmental Monitoring and Mitigation Plan. CDM Smith stated that they will submit the above by the mid of each month.	CDM Smith	Mid of May
	PM #09	4.3 Long Lead Items. BV reminded CDM Smith to submit Mud Gate and Debris isolation Gate ASAP in order to avoid any delay for the construction related activities inside the balance tank. CDM Smith Acknowledge.	CDM Smith	ASAP
5	PM #14	<u>Financial.</u> 5.1 Pending Variation Order Requests. BV reminded CDM Smith to submit all pending VOR's. CDM Smith stated that they are currently working on submitting all pending VORs.	CDM Smith	ASAP
6	PM #01	<u>Reports.</u> 6.1 Monthly Report. No issues reported under this item.	Info	
	PM #01	6.2 Daily Joint Report. No issues reported under this item.	Info	

End of Minutes

**USAID WEST BANK/GAZA
INFRASTRUCTURE NEEDS PROGRAM INPII
TO 13-00006, QABATIYA WELL PROJECT (QBW)
BI-WEEKLY PROGRESS MEETING AGENDA #15**

Date:

Thursday, April 24, 2014

Timing:

01:00 PM – 02:00 PM

Location:

Primary Field Office
Al Zababida, Palestine

Attendees:

- PWA/WBWD
- USAID
- Black and Veatch
- CDM Smith and Sub-Contractors.

Agenda:

- 1. Safety & Environment.**
 - 1.1 General Site Safety.
 - 1.2 Housekeeping & Scaffolding at site
- 2. Quality.**
 - 2.1 Form Work & Shuttering
- 3. Progress of Work.**
 - 3.1 Progress Update Summary by CDM Smith
 - 3.2 Two Weeks Look Ahead.
- 4. Submittals.**
 - 4.1 Monthly Updates
- 5. Financial.**
 - 5.1 Pending VOR's.

6. Reports.

6.1. Daily Joint Reports.

6.2. Monthly Reports.

7. Others.



Subject: Bi-Weekly Progress Meeting #15 Qabatiya Well Pump Station

Palestine/Gaza INP II

Venue: Project Primary Office, Alzababdeh, Palestine

Date: April 24, 2014

Time: From 02:00 PM to 03:00 PM

Attendees List

No.	Name	Title	Organization	Mobile Number	E-mail	Signature
1	Shakoor Bitar	PM	CDM Smith	0599-200-471	Bitarss@cdmsmith.com	
2	Talal Mahasin	QC	CDM Smith	092-997702	mehasin@cdmsmith.com	
3	Moussa Anbar	F&A Manage	CDMSMITH	0599556610	anbar.m@cdmsmith.com	
4	Abdel Rahman Bakker	safety Eng.	CDM smith	0599-997700	bakkerar@cdmsmith.com	
5	Arab Masri	Project Con. Eng.	CDM Smith	0592997705	masri.a@cdmsmith.com	
6	AHMAD AMRO	Project Manager	ABC	0597088787	amro@a-brothers.com	
7	Moayyed shawanna	site engineer	B.V	0592997713	shawannaM@b.v.com	
8	Emad Dweikat	D.C	B.V	0592997711	DweikatE@b.v.com	
9	Fares Hijawi	PE	CDM Smith	0592997721	hijawif@cdmsmith.com	
10	Ali Odleh	P.E	CDMSMITH	0592997723	odleh@cdmsmith.com	
11	Amr Barq	CD/EI. Eng	CDM Smith	0592997704		
12	Nael Nazzal	R.E	B.V	0592997708	NazzalN@b.v.com	
13	Osamah Alkhalil	PM	B.V	0592997706	AlkhalilO@b.v.com	
14	Abu M. Saag	PM	B.V	0588907746		
15	Rami Abu Khatib	AM	USAID	0505875891		
16	MUSTAFA AL KAYED	ORU	BSV	0568910872		
17	Anan Masri	USAID - COR				

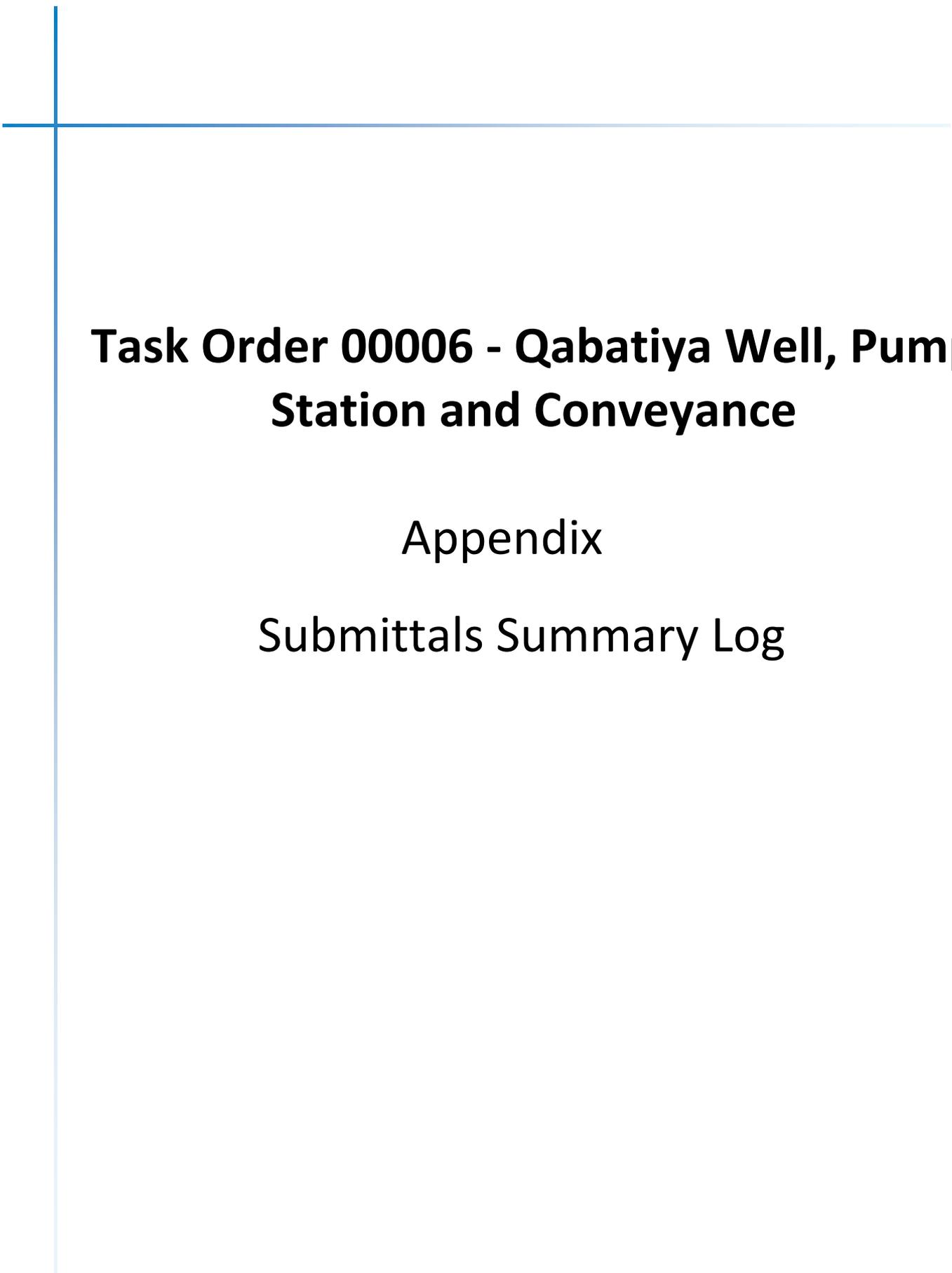
Adnan Suf

BU

Iman Jaradat

OE

BU



**Task Order 00006 - Qabatiya Well, Pump
Station and Conveyance**

Appendix

Submittals Summary Log

USAID Contract No.: AID-294-I-00-12-00001

Task Order No.: AID-294-TO-13-00006

Qabatiya Well Pump Station And Conveyance System

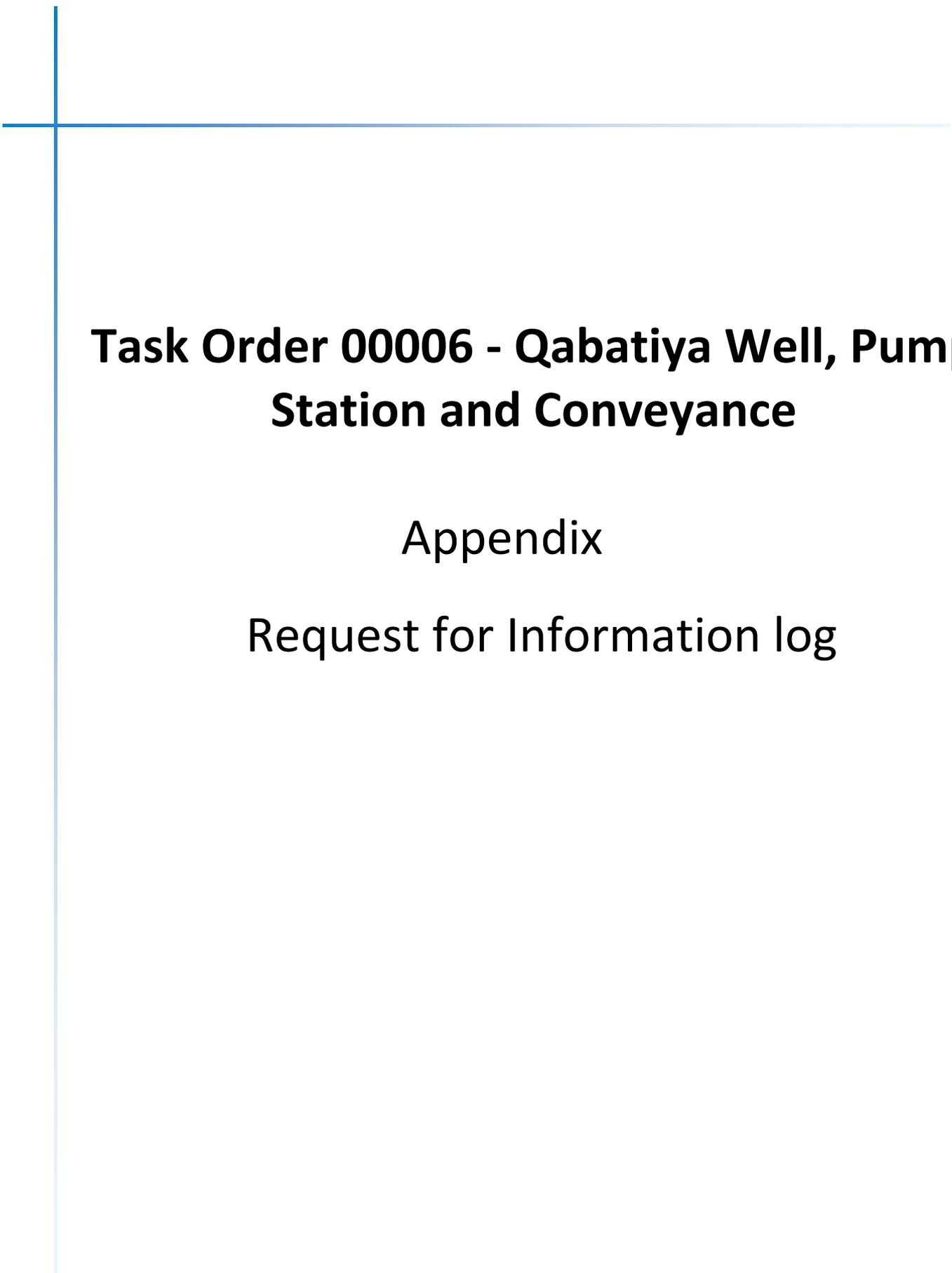
SUBMITTAL LOG - April 2014

Submittal No.	Submittal Name	Date Submitted To Engineer	Date Returned From Engineer	Status
SUB-13-00006-QBW-104B	Sleeve Type Coupling With Harness (for QBW Pumping Station)	4/29/2014		
SUB-13-00006-QBW-217C	Fans for Chemical, Switch Gear and IEC Rooms	4/15/2014	4/16/2014	B
SUB-13-00006-QBW-246C	Structural shop drawing for pit and sump grating	4/15/2014	4/22/2014	B
SUB-13-00006-QBW-248B	Test Report on Concrete Compressive Strength for Sump Pit Foundation and Half of its Walls (7 days result)-Ref. M/1403/142	4/10/2014	4/10/2014	B
SUB-13-00006-QBW-252B	Structural Shop Drawings for Azzababdeh and AAUJ & Other Flow Monitoring Chambers	4/13/2014	4/14/2014	B
SUB-13-00006-QBW-254A	Precast Concrete Manholes	3/27/2014	Cancelled	
SUB-13-00006-QBW-259A	Test Report on Concrete Compressive Strength for 2nd Part of Eastern RW Type F (28 day result) - Ref. M/1403/31	4/1/2014	4/1/2014	A
SUB-13-00006-QBW-260A	Updated CPM Construction Schedule	4/1/2014	4/22/2014	C
SUB-13-00006-QBW-261A	Structural Shop Drawing for 1000m3 Balance Tank (Pits and Sump Plans)	4/2/2014	4/9/2014	C
SUB-13-00006-QBW-262A	Degree of Compaction Test (Field Density) for 3rd Base Course Layer Under Balance Tank Foundation - Ref. M/1404/11	4/3/2014	4/8/2014	A
SUB-13-00006-QBW-263A	Structural Shop Drawings for Chambers Along Conveyance System	4/6/2014	4/9/2014	C
SUB-13-00006-QBW-263B	Structural Shop Drawings for Chambers Along Conveyance System	4/13/2014	4/14/2014	B
SUB-13-00006-QBW-264A	Test report on asphalt pavement compaction at stations 2500, 2730, 3000, 3360 and 3600 on conveyance system. Ref-M/1404/24	4/6/2014	4/8/2014	A
SUB-13-00006-QBW-265A	Updated Submittal Registry (up to 31 March 2014)	4/6/2014	4/21/2014	B
SUB-13-00006-QBW-266A	Test Report on Granular Base Course Material under Balance Tank Foundation (4th Layer) – Ref. M/1404/25	4/9/2014	4/9/2014	A
SUB-13-00006-QBW-267A	Test Report on Reinforcing Bars – Ref. M/1404/95	4/10/2014	4/16/2014	B
SUB-13-00006-QBW-268A	Product Data and Sample for Manhole Steps	4/14/2014	4/16/2014	C
SUB-13-00006-QBW-269A	Work Plan for Base Course Compaction along the conveyance system based on HCL recommendations	4/15/2014	4/16/2014	B
SUB-13-00006-QBW-270A	Degree of Compaction Test (Field Density) for 4th Base Course Layer Under Balance Tank Foundation - Ref. M/1404/270	4/23/2014	4/23/2014	A
SUB-13-00006-QBW-271A	Underground Raceway System (Duct Banks)	4/28/2014		
SUB-13-00006-QBW-272A	Test Report on Concrete Compressive Strength for Balance Tank Pits and Sump (footing & walls)/ (7-day result) – Ref. M/1404/230	4/29/2014	4/30/2014	B
SUB-13-00006-QBW-273A	Plate Bearing Test for Bearing Capacity and Settlement Evaluation (Top layer of Compacted Base Course under the Reservoir foundation). Ref. : M/1404/385	4/30/2014	4/30/2014	A

Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Invoices Log



Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Request for Information log

USAID Contract No.: AID-294-I-00-12-00001

Task Order No.: AID-294-TO-13-00006

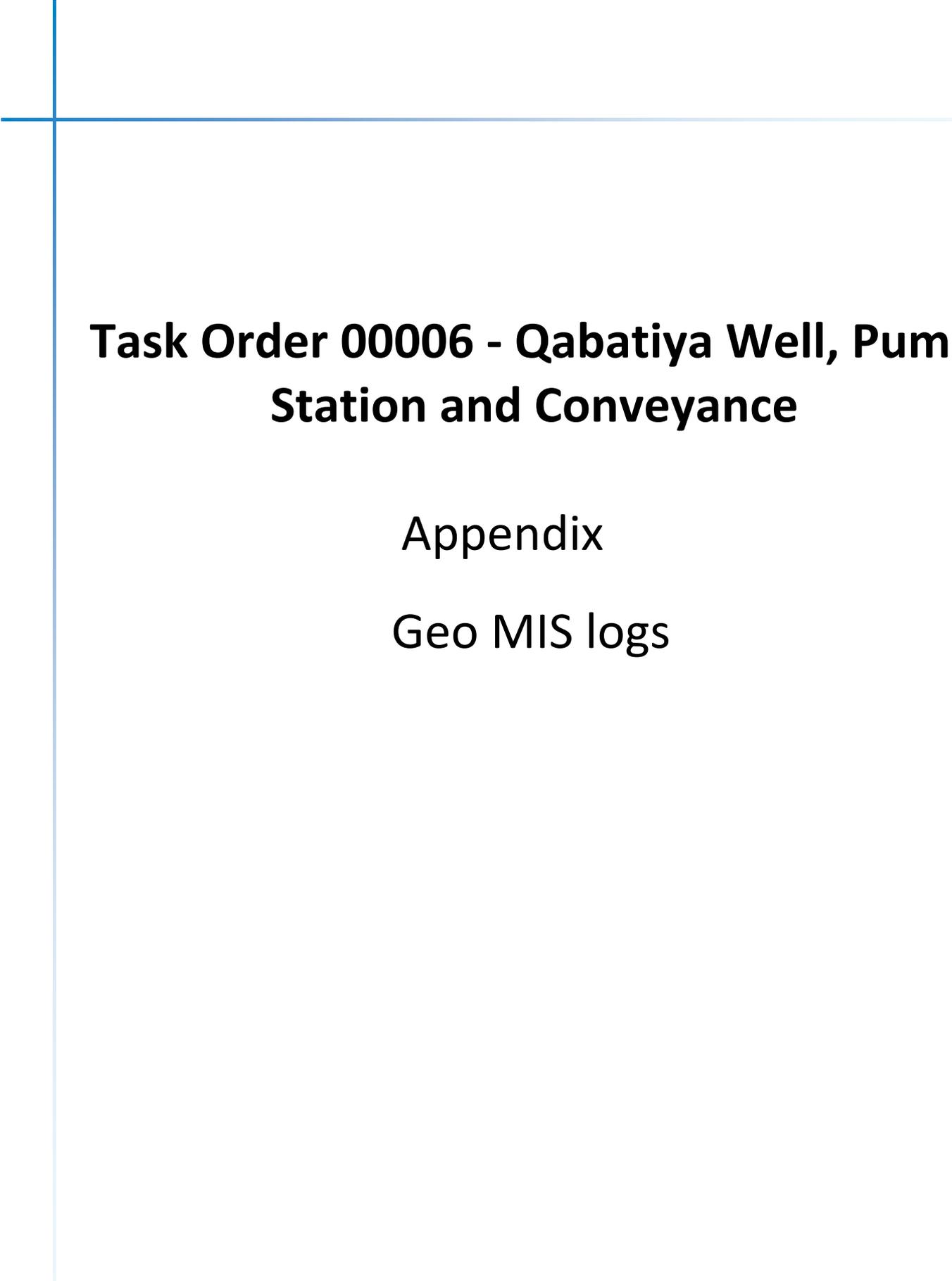
Qabatiya Well Pump Station And Conveyqance System

Request For Information Log - April 2014

RFI No.	Description	Date Submitted To Engineer	Date Returned From Engineer
RFI-13-00006-QBW-033	Rig Mobilization	4/3/2014	4/10/2014
RFI-13-00006-QBW-034	Finished Grade Elevation	4/3/2014	4/10/2014
RFI-13-00006-QBW-035	Clarifications related principally to elements of the redesign package released Thursday 27th March 2014	4/6/2014	4/13/2014
RFI-13-00006-QBW-036	Clarifications related principally to Specification 16050 para 2.1C as compared to the redesign package released Thursday 27th March 2014	4/6/2014	4/10/2014
RFI-13-00006-QBW-037	Clarifications related principally to BoQ Item 4.10 of the redesign package released Thursday 27th March 2014	4/6/2014	4/10/2014
RFI-13-00006-QBW-038	Clarifications related principally to elements of the redesign package released Thursday 27th March 2014	4/6/2014	4/10/2014
RFI-13-00006-QBW-039	Clarifications related principally to Specification 11259 of the redesign package released Thursday 27th March 2014	4/6/2014	4/10/2014
RFI-13-00006-QBW-040	Clarifications related principally to elements of the redesign package released Thursday 27th March 2014	4/6/2014	4/13/2014
RFI-13-00006-QBW-041	Clarifications related principally to elements of the redesign package released Thursday 27th March 2014	4/6/2014	4/10/2014
RFI-13-00006-QBW-042	Finish Floor Elevation (F.F. EL) for structures at Qabatiya site	4/7/2014	4/14/2014
RFI-13-00006-QBW-043	Gate Valve 325C and 325M	4/7/2014	4/10/2014
RFI-13-00006-QBW-044	Surge Tank Drain Pipe	4/7/2014	4/10/2014
RFI-13-00006-QBW-045	End Caps for Perforated Pipes	4/8/2014	4/10/2014
RFI-13-00006-QBW-046	Clarifications related principally to mechanical elements of the redesign package released Thursday 27th March 2014	4/13/2014	4/17/2014
RFI-13-00006-QBW-047	Clarifications related principally to elements of Specification 11102 of the redesign package released Thursday 27th March 2014	4/13/2014	4/19/2014
RFI-13-00006-QBW-048	Clarifications related principally to elements of Specification 11102 and 16455 of the redesign package released Thursday 27th March 2014	4/13/2014	4/22/2014
RFI-13-00006-QBW-049	Clarifications related principally to elements of Specification 16400, 16455, and 16461 of the redesign package released Thursday 27th March 2014	4/13/2014	4/19/2014
RFI-13-00006-QBW-050	Clarification related to Specification 16400 of the redesign package released Thursday 27th March 2014 - Pole Mounted Transformer	4/13/2014	4/19/2014
RFI-13-00006-QBW-051	Clarifications related principally to elements of Specification 11102 , and 16455 of the redesign package released Thursday 27th March 2014	4/14/2014	4/22/2014

USAID Contract No.: AID-294-I-00-12-00001**Task Order No.: AID-294-TO-13-00006****Qabatiya Well Pump Station And Conveyqance System****Request For Information Log - April 2014**

RFI No.	Description	Date Submitted To Engineer	Date Returned From Engineer
RFI-13-00006-QBW-052	Clarifications related principally to elements of the redesign package released Thursday 27 th March 2014	4/14/2014	4/19/2014
RFI-13-00006-QBW-053	Finish Floor Elevation (F.F. EL) for structures at Qabatiya site and CMC's response on RFI-042	4/15/2014	4/15/2014
RFI-13-00006-QBW-054	Protective Features for Well Pump and Motor	4/15/2014	4/22/2014
RFI-13-00006-QBW-055	Factory Tests for Electrical Submersible Pump	4/15/2014	4/19/2014
RFI-13-00006-QBW-056	RFI 40.5 and RFI 46.2	4/19/2014	4/24/2014
RFI-13-00006-QBW-057	Clarifications related principally to elements of the redesign package released Thursday 27 th March 2014	4/21/2014	4/24/2014
RFI-13-00006-QBW-058	Clarifications in relation to appropriate specifications for VFDs for Booster Pumps and Step Down Transformer as part of redesign in relation to responses to RFI 49	4/21/2014	4/24/2014
RFI-13-00006-QBW-059	Clarifications related principally to elements of the redesign package released Thursday 27 th March 2014	4/22/2014	4/23/2014
RFI-13-00006-QBW-060	Clarifications related principally to elements of the redesign package released Thursday 27 th March 2014	4/23/2014	4/24/2014
RFI-13-00006-QBW-061	Clarifications related principally to elements of the redesign package released Thursday 27 th March 2014 related to well development, testing, acidification and disinfection.	4/24/2014	4/24/2014
RFI-13-00006-QBW-062	Pent House	4/24/2014	



Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Geo MIS logs

**USAID WEST BANK/ GAZA
INFRASTRUCTURE NEEDS PROGRAM INPII
CONTRACT NO. :AID-294-I-00-12-00001**

TASK ORDER NO. : AID-294-TO-13-00006

Qabatiya Well Pump Station and Conveyance System

Temporay Job Days Summary Report

Order Name: To-13-00006

PERIOD FROM: 5/14/2013

Qabatiya Well Pump Station and Conveyance System

PERIOD TO: 4/30/2014

CONTRACTOR: CDM Smith

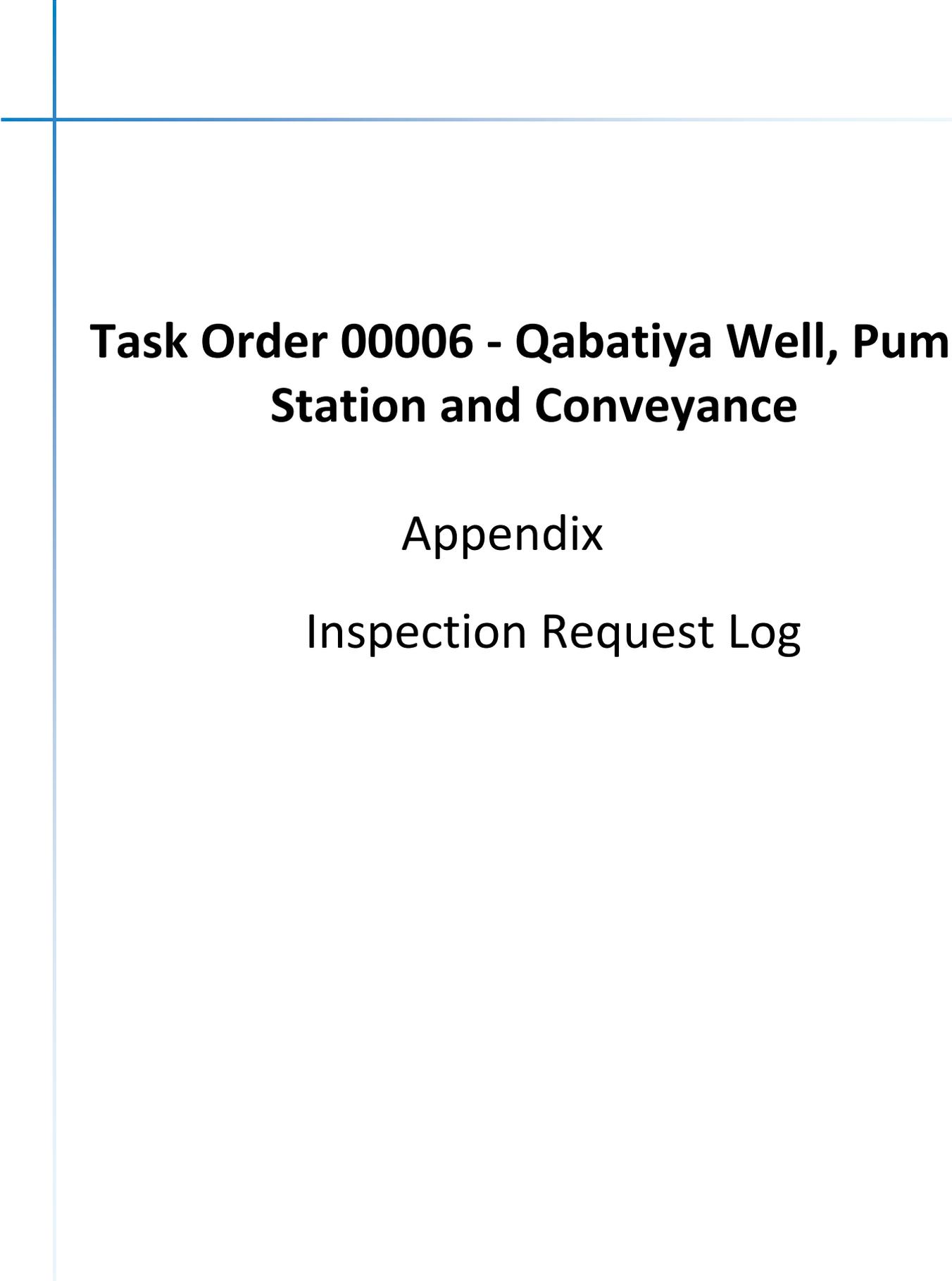
Date		Site Staff Job Days**					Total Job Days	No of Full Time Equivalent (FTE) Jobs in the Month*	Notes of Comments
Month	Year	Management	Engineers	Skilled Labor	Unskilled Labor	Other			
May	2013	87	44	0	0	3	134	6	
June	2013	125	51	4	0	0	180	8	
July	2013	115	44	79	46	17	301	13	
August	2013	93	73	0	22	0	188	8	
September	2013	127	179	72	32	4	414	17	
Total of FY 2013							1216	51	
October	2013	125	179	89	39	8	440	18	
November	2013	101	173	49	37	0	360	15	
December	2013	109	164	139	67	0	480	20	
January	2014	105	174	205	167	8	659	28	
February	2014	103	190	193	212	42	739	31	
March	2014	114	207	130	122	21	594	25	
April	2014	116	233	78	79	0	506	21	

USAID WEST BANK/ GAZA
 INFRASTRUCTURE NEEDS PROGRAM INPII
 CONTRACT NO. :AID-294-I-00-12-00001

TASK ORDER NO. : AID-294-TO-13-00006
 Qabatiya Well Pump Station and Conveyance System
 Temporarily Job Days Report

Task Order Name: TO-13-00006
 Sub-project or Activity Name: Qabatiya Well Pump Station and Conveyance System
 CONTRACTOR:CDM Smith
 SUBCONTRACTOR(s): Arab Brothers
 Site Group CO. LTD

DATE	Name of Contractor /Subcontractor	Site Staff Job Days **																	Man-days*				
		Worker/Classification (Hours)															Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other		
		Management				Engineers						Skilled labor			Unskilled							Other	
		Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Project Manager #1, #2, etc ..	Electrical Engineer	Project Engineer	Office Engineer	Quality Control Engineer	Contract Specialist	Mechanical Engineer	Foreman	Skilled Labor*	Equipment Operator	Flagman	Unskilled Labor						Driver	
April 1, 2014	CDM Smith	9	9	9		9	18			9					8			4.5	10	4.375	3.25	0	
	Arab Brothers				9	9	18	9			9	9	18	8	18								
	Site Group																						
April 2, 2014	CDM Smith	9	9	9		9	18			9					8			4.5	10	5.125	3	0	
	Arab Brothers				9	9	18	9			9	9	32		16								
	Site Group																						
April 3, 2014	CDM Smith	10	13	10		10	16			13					8			4.875	9	1.5	2.5	0	
	Arab Brothers				6	6	12	8			8		12		12								
	Site Group																						
April 4, 2014	CDM Smith																	0	0	0	0	0	
	Arab Brothers																						
	Site Group																						
April 5, 2014	CDM Smith	10	10	8		8	16			10					8			4.5	8	0	1	0	
	Arab Brothers				8		12	8			8												
	Site Group																						
April 6, 2014	CDM Smith	10	10	9		10	18			10					8			4.625	9	1	2	0	
	Arab Brothers				8	9	18				8			8	8								



Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Inspection Request Log

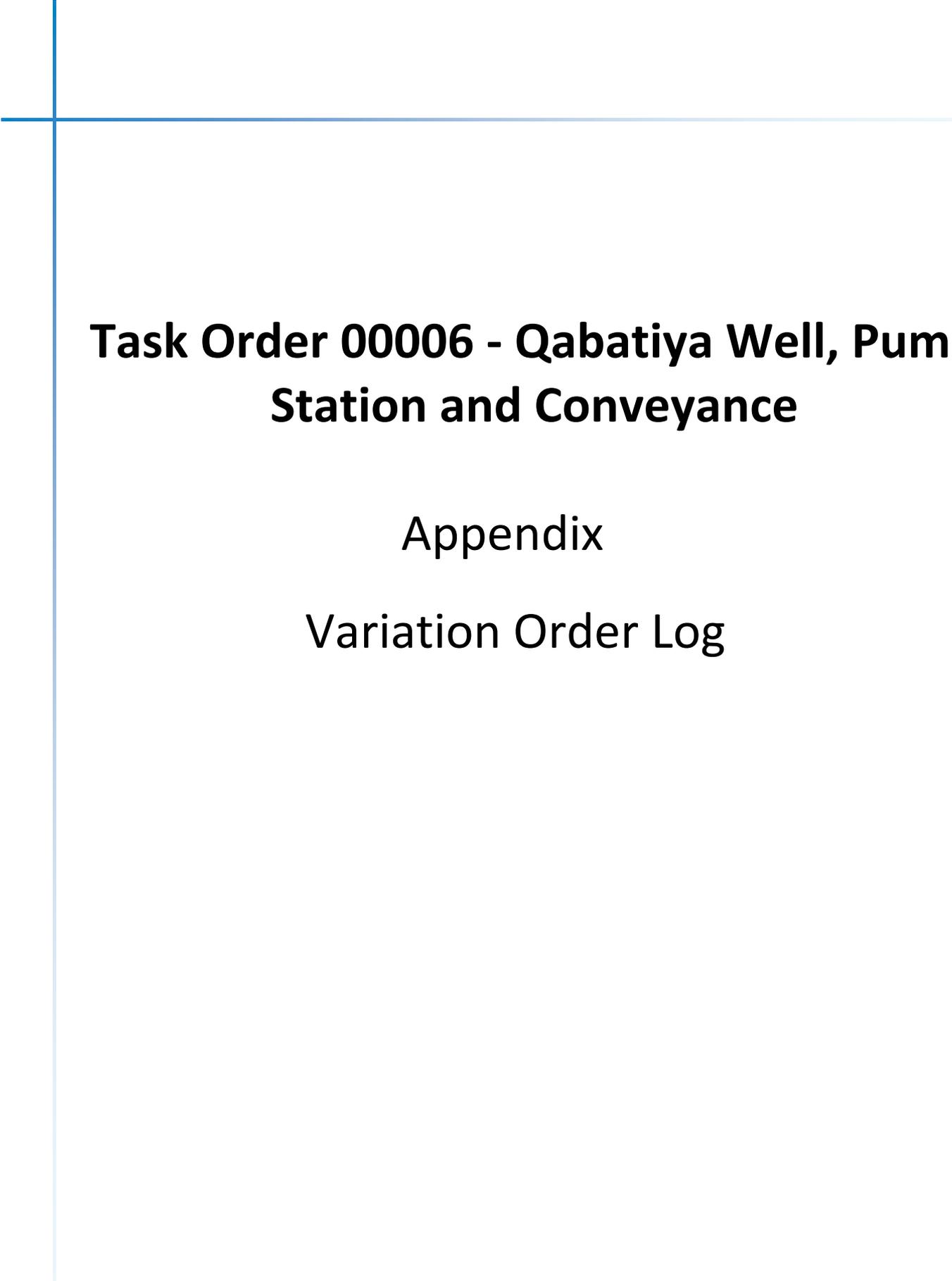
USAID Contract No.: AID-294-I-00-12-00001

Task Order No.: AID-294-TO-13-00006

Qabatiaya Well Pump Station And Conveyance System

Inspection Request Log- April 2014

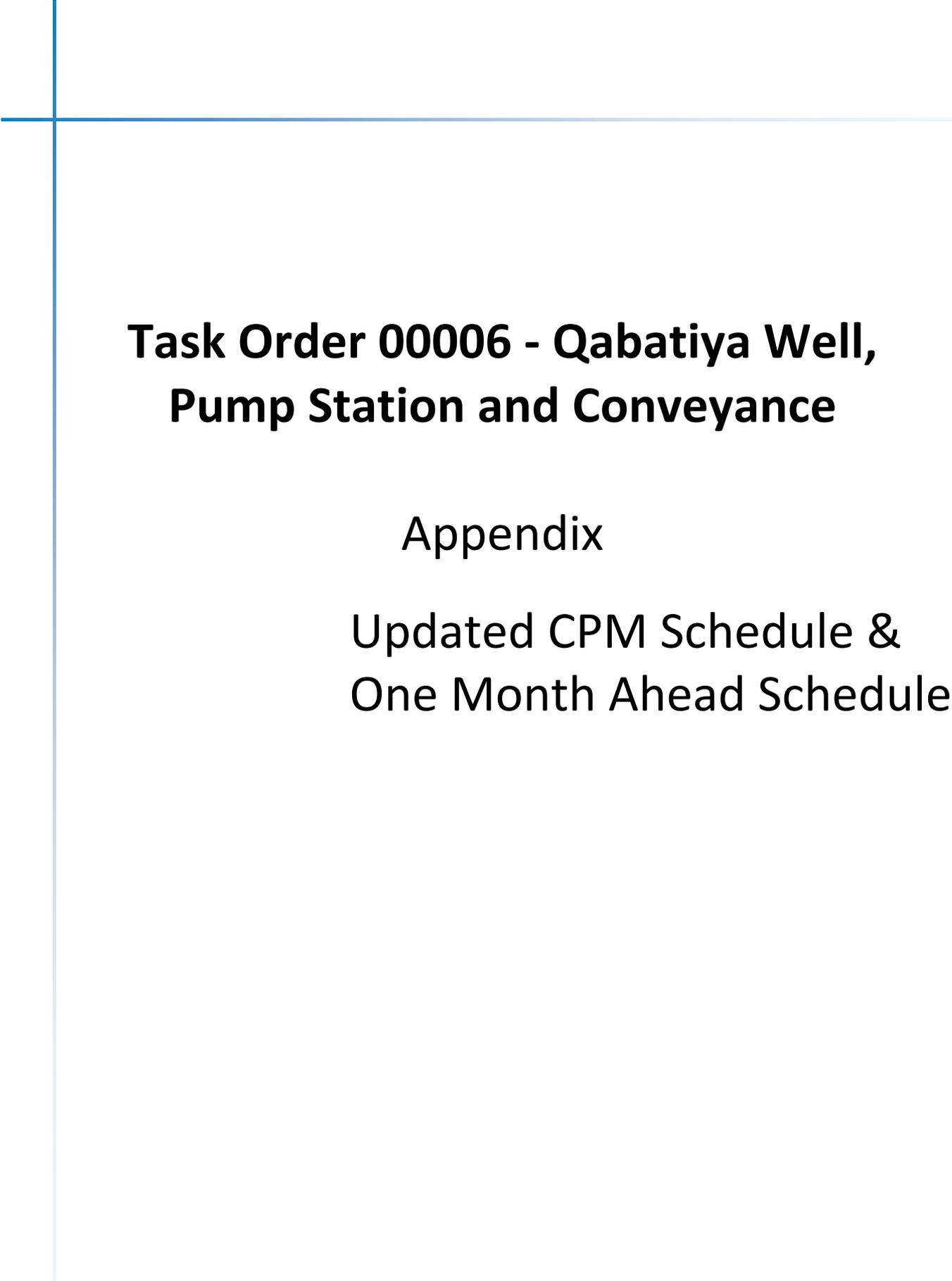
IR No.	Description	Date Submitted to Engineer	Date Returned from Engineer	Engineer's Comments
IR-1300006-QBW-097A	Inspection of Delivered Stainless Steel Thimbles Which were Fabricated under Engineer's Direct Supervision on 15 March 2014 (IR-088A)	4/10/2014	4/13/2014	No Exception Noted
IR-1300006-QBW-098A	Installation of 300 mm and 100 mm SS 316 thimbles for the balance tank outlet and drain respectively at the locations shown in the attached drawings	4/10/2014	4/13/2014	1- Stainless steel pipes shall be cleaned 2- Stainless steel pipes and flanges shall not be in contact with steel bars, wires or any other dissimilar material 3- Flange orientation to be adjusted
IR-1300006-QBW-098B	Installation of 300 mm and 100 mm SS 316 thimbles for the balance tank outlet and drain respectively at the locations shown in the attached drawings	4/22/2014	4/22/2014	The socket (MOF) after casting for 100mm SS316 is not vertical, contractor to repair it
IR-1300006-QBW-099A	Steel reinforcement for 1000m3 balance tank pits and sump	4/10/2014	4/10/2014	The work to be inspected is not completed yet
IR-1300006-QBW-099B	Steel reinforcement for 1000m3 balance tank pits and sump	4/17/2014	4/17/2014	No Exception Noted
IR-1300006-QBW-100A	Inspection of RGS (27mm) pipe (GRC), PVC coated RGS elbow 27mm (Raychem Protection GRC Elbow)	4/14/2014	4/15/2014	Contractor to submit MRR and Mill Certificate
IR-1300006-QBW-100B	Inspection of RGS (27mm) pipe (GRC), PVC coated RGS elbow 27mm (Raychem Protection GRC Elbow)	4/23/2014	4/23/2014	No Exception Noted
IR-1300006-QBW-101A	Formwork shuttering and casting concrete for the 1000 m3 balance tank pits and sump	4/16/2014	4/17/2014	1- The balance tank and pits wall thickness is not complying with drawing it should be 30 cm not 28 cm. 2- Water stop is bent and not fixed properly. 3- The pit grating frame is not leveled and not properly fixed. 4- Vertical wall alignment (east side) misaligned 1 cm. 5- No action was taken in respect of bad condition formwork. 6- Loose material inside/under the structural elements to be casted should be cleaned and removed.
IR-1300006-QBW-101B	Formwork shuttering and casting concrete for the 1000 m3 balance tank pits and sump	4/22/2014	4/22/2014	No Exception Noted
IR-1300006-QBW-102A	Compaction test (Field Density) for 4th base course layer under balance tank foundation	4/17/2014	4/21/2014	The work is not completed
IR-1300006-QBW-102B	Compaction test (Field Density) for 4th base course layer under balance tank foundation	4/22/2014	4/22/2014	No Exception Noted
IR-1300006-QBW-103A	Filling tie rod openings at external walls of balance tank pits	4/22/2014	4/22/2014	No Exception Noted
IR-1300006-QBW-104A	Applying damp proofing material at the footing of balance tank pits	4/22/2014	4/22/2014	No Exception Noted
IR-1300006-QBW-105A	Applying damp proofing material at external walls of balance tank pits	4/22/2014	4/23/2014	No Exception Noted
IR-1300006-QBW-106A	Inspection of material for the 110 mm PVC fittings SN4 for underdrain system under the balance tank	4/29/2014	4/29/2014	No Exception Noted
IR-1300006-QBW-107A	Inspection of material for the 0.5 mm PVC sheets for underdrain system under the balance tank	4/29/2014	4/29/2014	No Exception Noted
IR-1300006-QBW-108A	Inspection of material for the 3" perforated pipes for underdrain system under the balance tank	4/29/2014	4/29/2014	No Exception Noted
IR-1300006-QBW-109A	Inspection of material for the pea gravel for underdrain system under the balance tank	4/29/2014	4/29/2014	No Exception Noted
IR-1300006-QBW-110A	Lean concrete under the balance tank foundation as per the attached drawing. The estimated area to be casted is 260 m2	4/30/2014		



Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Variation Order Log



Task Order 00006 - Qabatiya Well, Pump Station and Conveyance

Appendix

Updated CPM Schedule &
One Month Ahead Schedule



Activity ID	Activity Name	Original Duration	BL Project Start	Actual Start	BL Project Finish	Actual Finish	Performance % Complete	Schedule % Complete	Total Float	BL Project Total Cost	Gantt Chart (2013-2016)											
Updated Time Schedule till 26-4- Qabatiya Well Pump Station and Conveyance System																						
Milestones																						
General Milestones																						
MS00110	Start Date NTP	0	14-May-13	14-May-13	07-Jan-15		100%	100%	0	\$0.00	Start Date NTP, 14-May-13 A											
MS00120	Completion Project	0	14-May-13	14-May-13	07-Jan-15		0%	0%	0	\$0.00	Completion Project, 27-Apr-15											
Intermediate Milestones																						
IMS00030	Start Mobilization Phase	0	14-May-13	14-May-13	07-Jan-15		100%	100%	-110	\$0.00	Start Mobilization Phase, 14-May-13 A											
IMS00040	Finish Mobilization Phase	0	14-May-13	14-May-13	25-Jun-13	25-Jun-13	100%	100%	0	\$0.00	Finish Mobilization Phase, 25-Jun-13 A											
IMS00050	Start Pre Construction Submittals Phase	0	14-May-13	14-May-13	25-Sep-13	25-Sep-13	100%	100%	0	\$0.00	Start Pre Construction Submittals Phase, 14-May-13 A											
IMS00051	Finish Pre Construction Submittals Phase	0	14-May-13	14-May-13	25-Sep-13	25-Sep-13	100%	100%	0	\$0.00	Finish Pre Construction Submittals Phase, 25-Sep-13 A											
IMS00052	Start Material & Method Statement Phase Submittals	0	17-Jun-13	17-Jun-13	02-Feb-14		100%	100%	-12	\$0.00	Start Material & Method Statement Phase Submittals, 17-Jun-13 A											
IMS00053	Finish Material & Method Statement Phase Submittals	0	17-Jun-13	17-Jun-13	02-Feb-14		0%	100%	-12	\$0.00	Finish Material & Method Statement Phase Submittals, 02-Feb-14 A											
IMS00055	Start Procurement Phase	0	01-Aug-13	01-Aug-13	10-Nov-14		100%	100%	-79	\$0.00	Start Procurement Phase, 01-Aug-13 A											
IMS00056	Finish Procurement Phase	0	01-Aug-13	01-Aug-13	10-Nov-14		0%	100%	-79	\$0.00	Finish Procurement Phase, 10-Nov-14 A											
IMS00060	Start Construction Phase	0	06-Jul-13	06-Jul-13	14-Dec-14		100%	100%	-91	\$0.00	Start Construction Phase, 06-Jul-13 A											
IMS00065	Finish Construction Phase	0	06-Jul-13	06-Jul-13	14-Dec-14		0%	100%	-91	\$0.00	Finish Construction Phase, 14-Dec-14 A											
IMS00075	Start Well Pump Works	0	06-Jul-13	06-Jul-13	14-Dec-14		100%	100%	-91	\$0.00	Start Well Pump Works, 06-Jul-13 A											
IMS00080	Finish Well Pump Works	0	06-Jul-13	06-Jul-13	14-Dec-14		0%	100%	-91	\$0.00	Finish Well Pump Works, 14-Dec-14 A											
IMS00085	Start Structural Works	0	16-Sep-13	16-Sep-13	01-Nov-14		100%	100%	-45	\$0.00	Start Structural Works, 16-Sep-13 A											
IMS00100	Finish Structural Works	0	16-Sep-13	16-Sep-13	01-Nov-14		0%	100%	-45	\$0.00	Finish Structural Works, 01-Nov-14 A											
IMS00140	Start conveyency pipeline construction works	0	03-Dec-13	10-Feb-14	08-Apr-14		100%	100%	172	\$0.00	Start conveyency pipeline construction works, 10-Feb-14 A											
IMS00150	Finish conveyency pipeline works	0	03-Dec-13	10-Feb-14	08-Apr-14		0%	100%	172	\$0.00	Finish conveyency pipeline works, 08-Apr-14 A											
IMS00160	Start Demobilization Phase	0	14-Dec-14		07-Jan-15		0%	0%	-110	\$0.00	Start Demobilization Phase, 09-Apr-15											
IMS00170	Finish Demobilization Phase	0	14-Dec-14		07-Jan-15		0%	0%	-110	\$0.00	Finish Demobilization Phase, 07-Jan-15											
Coordination with PWA & Engineer Before Construction Phase																						
A7720	Coordination with PWA & Engineer before start Construction Work	30	14-May-13	14-May-13	18-Jun-13	18-Jun-13	100%	100%	0	\$0.00	18-Jun-13 A Coordination with PWA & Engineer before start Construction Work											
Mobilization																						
MOBL100	Install security features	7	14-May-13	14-May-13	21-May-13	21-May-13	100%	100%	0	\$0.00	21-May-13 A Mobilization											
MOBL110	Establish Safety Program	15	14-May-13	14-May-13	30-May-13	30-May-13	100%	100%	0	\$0.00	30-May-13 A Mobilization											
MOBL120	Storage Yard	7	22-May-13	22-May-13	29-May-13	29-May-13	100%	100%	0	\$0.00	29-May-13 A Mobilization											
MOBL130	Temporary Construction Facilities	7	22-May-13	22-May-13	29-May-13	29-May-13	100%	100%	0	\$0.00	29-May-13 A Mobilization											
MOBL140	Install Project Sign	7	30-May-13	30-May-13	06-Jun-13	06-Jun-13	100%	100%	0	\$0.00	06-Jun-13 A Mobilization											
MOBL150	IT, Mechanical & Electrical Equipments Installation	6	30-May-13	30-May-13	05-Jun-13	05-Jun-13	100%	100%	0	\$0.00	05-Jun-13 A Mobilization											
MOBL160	Provide temporary Parking areas	7	09-Jun-13	09-Jun-13	16-Jun-13	16-Jun-13	100%	100%	0	\$0.00	16-Jun-13 A Mobilization											
MOBL180	CMC Offices & Furniture	8	17-Jun-13	17-Jun-13	25-Jun-13	25-Jun-13	100%	100%	0	\$0.00	25-Jun-13 A Mobilization											
MOBL190	Contractor Offices & Furniture	8	17-Jun-13	17-Jun-13	25-Jun-13	25-Jun-13	100%	100%	0	\$261,286.00	25-Jun-13 A Mobilization											
Submittals																						
Pre-Construction Submittals																						
PCS-100	Prepare & submit Bank Guarantee Certificate & Insurance	13	14-May-13	14-May-13	28-May-13	28-May-13	100%	100%	0	\$0.00	28-May-13 A Pre-Construction Submittals											
PCS-110	Approval of bank Guarantee & Insurance	0	14-May-13	14-May-13	04-Jun-13	04-Jun-13	100%	100%	0	\$0.00	04-Jun-13 A Pre-Construction Submittals											
PCS-120	Prepare & submit Submittals Schedule	11	14-May-13	14-May-13	26-May-13	26-May-13	100%	100%	0	\$0.00	26-May-13 A Pre-Construction Submittals											
PCS-130	Approval of Submittals Schedule	0	14-May-13	14-May-13	11-Jun-13	11-Jun-13	100%	100%	0	\$0.00	11-Jun-13 A Pre-Construction Submittals											
PCS-140	Prepare & submit General Construction Method Statement	40	14-May-13	14-May-13	30-Jun-13	30-Jun-13	100%	100%	0	\$0.00	30-Jun-13 A Pre-Construction Submittals											
PCS-150	Approval of General Construction Method Statement	0	14-May-13	14-May-13	04-Jul-13	04-Jul-13	100%	100%	0	\$0.00	04-Jul-13 A Pre-Construction Submittals											
PCS-160	Prepare & submit List of Permits & Licenses	14	16-May-13	16-May-13	01-Jun-13	01-Jun-13	100%	100%	0	\$0.00	01-Jun-13 A Pre-Construction Submittals											
PCS-170	Approval of List of Permits & Licenses	0	16-May-13	16-May-13	20-Jun-13	20-Jun-13	100%	100%	0	\$0.00	20-Jun-13 A Pre-Construction Submittals											
PCS-180	Prepare & Submit Key Staff	10	16-May-13	16-May-13	27-May-13	27-May-13	100%	100%	0	\$0.00	27-May-13 A Pre-Construction Submittals											
PCS-190	Approval of Key Staff	0	16-May-13	16-May-13	15-Jun-13	15-Jun-13	100%	100%	0	\$0.00	15-Jun-13 A Pre-Construction Submittals											
PCS-200	Prepare & submit Subcontractor's Profile	10	19-May-13	19-May-13	29-May-13	29-May-13	100%	100%	0	\$0.00	29-May-13 A Pre-Construction Submittals											
PCS-210	Approval of Subcontractor's Profile	0	19-May-13	19-May-13	17-Jun-13	17-Jun-13	100%	100%	0	\$0.00	17-Jun-13 A Pre-Construction Submittals											
PCS-220	Prepare & submit 60 Day Plan of Operation	20	19-May-13	19-May-13	11-Jun-13	11-Jun-13	100%	100%	0	\$0.00	11-Jun-13 A Pre-Construction Submittals											
PCS-230	Approval of 60 Day Plan of Operation	0	19-May-13	19-May-13	18-Jun-13	18-Jun-13	100%	100%	0	\$0.00	18-Jun-13 A Pre-Construction Submittals											
PCS-240	Prepare & submit Project Permanent sign	34	21-May-13	21-May-13	30-Jun-13	30-Jun-13	100%	100%	0	\$0.00	30-Jun-13 A Pre-Construction Submittals											
PCS-250	Approval of Project Permanent sign	0	21-May-13	21-May-13	02-Jul-13	02-Jul-13	100%	100%	0	\$0.00	02-Jul-13 A Pre-Construction Submittals											
PCS-260	Prepare & submit Bar Chart Overview Schedule	18	21-May-13	21-May-13	11-Jun-13	11-Jun-13	100%	100%	0	\$0.00	11-Jun-13 A Pre-Construction Submittals											
PCS-270	Approval of Bar Chart Overview Schedule	0	21-May-13	21-May-13	11-Jun-13	11-Jun-13	100%	100%	0	\$0.00	11-Jun-13 A Pre-Construction Submittals											
PCS-280	Prepare & submit Field Office Layout	3	21-May-13	21-May-13	23-May-13	23-May-13	100%	100%	0	\$0.00	23-May-13 A Pre-Construction Submittals											
PCS-290	Approval of Field Office Layout	0	21-May-13	21-May-13	29-May-13	29-May-13	100%	100%	0	\$0.00	29-May-13 A Pre-Construction Submittals											
PCS-300	Prepare & Submit Environmental Mitigation Plan	41	21-May-13	21-May-13	08-Jul-13	08-Jul-13	100%	100%	0	\$0.00	08-Jul-13 A Pre-Construction Submittals											
PCS-310	Approval of Environmental Mitigation Plan	0	21-May-13	21-May-13	10-Jul-13	10-Jul-13	100%	100%	0	\$0.00	10-Jul-13 A Pre-Construction Submittals											
PCS-320	Prepare & submit Quality Control Plan	26	21-May-13	21-May-13	20-Jun-13	20-Jun-13	100%	100%	0	\$0.00	20-Jun-13 A Pre-Construction Submittals											
PCS-330	Approval of Quality Control Plan	0	21-May-13	21-May-13	04-Jul-13	04-Jul-13	100%	100%	0	\$0.00	04-Jul-13 A Pre-Construction Submittals											
PCS-340	Prepare & submit Risk Management Plan	26	21-May-13	21-May-13	20-Jun-13	20-Jun-13	100%	100%	0	\$0.00	20-Jun-13 A Pre-Construction Submittals											
PCS-350	Approval of Risk Management Plan	0	21-May-13	21-May-13	27-Jun-13	27-Jun-13	100%	100%	0	\$0.00	27-Jun-13 A Pre-Construction Submittals											
PCS-360	Prepare & submit Office Furniture & Equipment	11	21-May-13	21-May-13	02-Jun-13	02-Jun-13	100%	100%	0	\$0.00	02-Jun-13 A Pre-Construction Submittals											
PCS-370	Approval of Office Furniture & Equipment	0	21-May-13	21-May-13	04-Jun-13	04-Jun-13	100%	100%	0	\$0.00	04-Jun-13 A Pre-Construction Submittals											
PCS-380	Prepare & submit CPM Schedule & S-Curve	97	21-May-13	21-May-13	19-Sep-13	19-Sep-13	100%	100%	0	\$0.00	19-Sep-13 A Pre-Construction Submittals											
PCS-390	Approval of CPM Schedule & S-Curve	0	21-May-13	21-May-13	25-Sep-13	25-Sep-13	100%	100%	0	\$0.00	25-Sep-13 A Pre-Construction Submittals											
PCS-400	Prepare & Submit Delapidation Survey	24	23-May-13	23-May-13	20-Jun-13	20-Jun-13	100%	100%	0	\$0.00	20-Jun-13 A Pre-Construction Submittals											
PCS-410	Approval of Submit Delapidation Survey	0	23-May-13	23-May-13	24-Jun-13	24-Jun-13	100%	100%	0	\$0.00	24-Jun-13 A Pre-Construction Submittals											
PCS-420	Prepare & submit safety Plan	18	23-May-13	23-May-13	13-Jun-13	13-Jun-13	100%	100%	0	\$0.00	13-Jun-13 A Pre-Construction Submittals											
PCS-430	Approval of Safety Plan	0	23-May-13	23-May-13	02-Jul-13	02-Jul-13	100%	100%	0	\$0.00	02-Jul-13 A Pre-Construction Submittals											
PCS-440	Prepare & submit Traffic Control Plan	47	23-May-13	23-May-13	21-Jul-13	21-Jul-13	100%	100%	0	\$0.00	21-Jul-13 A Pre-Construction Submittals											
PCS-450	Approval of Traffic Control Plan	0	23-May-13	23-May-13	24-Jul-13	24-Jul-13	100%	100%	0	\$0.00	24-Jul-13 A Pre-Construction Submittals											
Construction Submittals																						
Material Submittals																						
1MATM107	(Prepare & submit steel Pipes, valves & Fittings)	20	19-Jun-13	19-Jun-13	13-Jul-13	13-Jul-13	100%	100%	6	\$0.00	13-Jul-13 A Construction Submittals											
2MATM095	Approval of Pipes & Fittings	0	19-Jun-13	19-Jun-13	24-Jul-13	24-Jul-13	100%	100%	0	\$0.00	24-Jul-13 A Construction Submittals											
3MEC199	Prepare & submit Combination Air Valve Plans & sections	32	19-Jun-13	19-Jun-13	31-Jul-13	31-Jul-13	100%	100%	0	\$0.00	31-Jul-13 A Construction Submittals											
4MEC189	Approval of buried flange Gate Valve - Plans & sections	0	19-Jun-13	19-Jun-13	05-Aug-13	05-Aug-13	100%	100%	0	\$0.00	05-Aug-13 A Construction Submittals											
5MATM128	(Prepare & submit dismantling joint- Product Data & Sample)	11	01-Jul-13	01-Jul-13	15-Jul-13	15-Jul-13	100%	100%	0	\$0.00	15-Jul-13 A Construction Submittals											
6MATM129	Approval of dismantling joint- Product Data & Sample	0	01-Jul-13	01-Jul-13	31-Jul-13	31-Jul-13	100%	100%	0	\$0.00	31-Jul-13 A Construction Submittals											
7MEC189	Prepare & submit Strainer meter- Plans & sections	16	01-Jul-13	01-Jul-13	22-Jul-13	22-Jul-13	100%	100%	0	\$0.00	22-Jul-13 A Construction Submittals											
8MEC199	Approval of Strainer - Plans & sections	0	01-Jul-13	01-Jul-13	25-Jul-13	25-Jul-13	100%	100%	0	\$0.00	25-Jul-13 A Construction Submittals											
91MATM114	Prepare & submit watrstop- Product Data	25	01-Jul-13	01-Jul-13	05-Aug-13	05-Aug-13	100%	100%	0	\$0.00	05-Aug-13 A Construction Submittals											
92MATM115	Approval of watrstop & Product Data	0	01-Jul-13	01-Jul-13	25-Aug-13	25-Aug-13	100%	100%	0	\$0.00	25-Aug-13 A Construction Submittals											
93MATC111	Prepare & submit Base coarse - Report	35	01-Jul-13	01-Jul-13	18-Aug-13	18-Aug-13	100%	100%	0	\$0.00	18-Aug-13 A Construction Submittals											
94MATC112	Approval of Base coarse - Test Report	0	01-Jul-13	01-Jul-13	26-Aug-13	26-Aug-13	100%	100%	0	\$0.00	26-Aug-13 A Construction Submittals											

█ Actual Level of Effort
 █ Actual Work
 █ Critical Remaining Work
█ Primary Baseline
 █ Remaining Work
 ◆ Milestone



Activity ID	Activity Name	Original Duration	BL Project Start	Actual Start	BL Project Finish	Actual Finish	Performance % Complete	Schedule % Complete	Total Float	BL Project Total Cost	Gantt Chart (2013-2016)											
Civil & Electro-Mechanical Works																						
Existing Well Pump Works 1st Phase																						
WPD-002	Remove Existing Well Pumping Unit	20	19-Jun-13	12-Jul-13	14-Dec-14	27-Mar-14	100%	100%	-68	\$5,512,281.77												
WPD-003	Straightness test	1	14-Jul-13	14-Jul-13	01-Apr-14	13-Jul-13	100%	100%	\$0.00													
WPD-004	Return Existing Well Pumping Unit	3	15-Jul-13	15-Jul-13	01-Apr-14	15-Jul-13	100%	100%	\$34,801.20													
WPD-012	Step and Constant Rate Pumping Test	6	24-Oct-13	24-Oct-13	01-Apr-14	30-Oct-13	100%	100%	\$0.00													
WPD-013	Well Water Testing	2	24-Oct-13	24-Oct-13	01-Apr-14	26-Oct-13	100%	100%	\$68,359.50													
WPD-018	Develop and Submit Well Reports to Engineer and obtain approval of final tests and surveys	10	03-Dec-13	03-Dec-13	01-Apr-14	20-Dec-13	100%	100%	\$0.00													
WPD-028	Engineers Evaluation to the findings and perform design modifications	120	03-Dec-13	20-Dec-13	01-Apr-14	27-Mar-14	100%	100%	\$0.00													
1000m3 Balance Tank																						
Construction Submittals																						
Materials Submittals																						
MATC105	Prepare & submit form work & shuttering-Product Data & Suppliers	141	19-Jun-13	19-Jun-13	02-Jan-14	06-Nov-13	0%	0%	\$0.00													
MATC106	Approval of form work & shuttering-Product Data & Suppliers	45	19-Jun-13	19-Jun-13	02-Jan-14	18-Aug-13	100%	100%	\$0.00													
MATC109	Prepare & submit Steel Reinforcement-Data Sheets & Certificates	85	19-Jun-13	19-Jun-13	02-Jan-14	03-Oct-13	100%	100%	\$0.00													
MATC110	Approval of Steel Reinforcement-Data Sheets & Certificates	0			02-Jan-14	09-Oct-13	100%	100%	\$0.00													
MATC133	Prepare & submit Epoxy Insulation materials	67	19-Jun-13	19-Jun-13	02-Jan-14	12-Sep-13	100%	100%	\$0.00													
MATC134	Approval of Epoxy insulation materials	0			02-Jan-14	24-Sep-13	100%	100%	\$0.00													
MATM104	Prepare & submit pipes and fittings for Balance Tank	21	14-Sep-13	14-Sep-13	02-Jan-14	07-Oct-13	100%	100%	\$0.00													
MATM105	Approval of pipes and fittings for Balance Tank	0			02-Jan-14	06-Nov-13	100%	100%	\$0.00													
Shop Drawing Submittals																						
CS100	Prepare & Submit Survey Layout & Sections	7	19-Aug-13	19-Aug-13	02-Jan-14	28-Jan-14	100%	100%	\$0.00													
CS101	Approval of Survey Layout & Sections	0			02-Jan-14	26-Aug-13	100%	100%	\$0.00													
CS132	Prepare & submit balance tank shop drawings -structural details	28	19-Aug-13	19-Aug-13	02-Jan-14	19-Sep-13	100%	100%	\$0.00													
CS133	Approval of balance tank shop drawings-structural details	0			02-Jan-14	30-Sep-13	100%	100%	\$0.00													
ELC118	Prepare & submit Balance tank details drawings	10	14-Sep-13	14-Sep-13	02-Jan-14	24-Sep-13	100%	100%	\$0.00													
ELC119	Approval of Balance tank details drawings	0			02-Jan-14	23-Dec-13	100%	100%	\$0.00													
MEC100	Prepare & Submit Shop Drawing of Balance Tank fittings	7	03-Dec-13	10-Oct-13	02-Jan-14	17-Dec-13	100%	100%	\$0.00													
MEC101	Approval of Shop Drawing of Balance Tank fittings	0			02-Jan-14	04-Nov-13	100%	100%	\$0.00													
Balance Tank Civil Works																						
First Phase Structural & Concrete works																						
BT-010	Mobilization of the existing living quarters	4	16-Sep-13	16-Sep-13	17-Jun-14	05-Nov-13	100%	100%	\$112,928.42													
BT-020	Demolition of the existing living quarters	4	16-Sep-13	16-Sep-13	17-Jun-14	19-Sep-13	100%	100%	\$6,559.66													
BT-030	Excavation the existing land	2	23-Sep-13	23-Sep-13	17-Jun-14	24-Sep-13	100%	100%	\$0.00													
BT-040	Clearing and site preparation	2	23-Sep-13	23-Sep-13	17-Jun-14	24-Sep-13	100%	100%	\$0.00													
BT-050	Site Grading	3	23-Sep-13	23-Sep-13	17-Jun-14	25-Sep-13	100%	100%	\$0.00													
BT-060	Excavation leveling for the base slab	6	29-Sep-13	29-Sep-13	17-Jun-14	05-Oct-13	100%	100%	\$64,019.50													
BT-060-New Item	Supply & Furnish 50cm thickness of rockfill under the foundation of balancing Tank- 6 layers	19	21-Oct-13	21-Oct-13	17-Jun-14	05-Nov-13	100%	100%	\$42,347.26													
Retaining Wall Works- Type E																						
New Item-RW7730	Excavation & Rock Back Filling	6	29-Sep-13	23-Sep-13	09-Jan-14	05-Oct-13	100%	100%	\$0.00													
New Item-RW7750	Lab Test	1	06-Oct-13	24-Sep-13	09-Jan-14	06-Oct-13	100%	100%	\$0.00													
New Item-RW7760	Blinding Concrete	1	02-Dec-13	02-Dec-13	09-Jan-14	03-Dec-13	100%	100%	\$18,913.25													
New Item-RW7770	R.W Base Steel Rebars	2	03-Dec-13	04-Dec-13	09-Jan-14	08-Dec-13	100%	100%	\$0.00													
New Item-RW7780	R.W Base Concrete Casting	3	03-Dec-13	09-Dec-13	09-Jan-14	05-Dec-13	100%	100%	\$45,391.80													
New Item-RW7790	R.W Base Concrete Curing and Installation	3	07-Dec-13	10-Dec-13	09-Jan-14	09-Dec-13	100%	100%	\$0.00													
New Item-RW7800	External Wall Formwork	3	17-Dec-13	21-Dec-13	09-Jan-14	19-Dec-13	100%	100%	\$0.00													
New Item-RW7810	Wall Steel Rebar	3	21-Dec-13	23-Dec-13	09-Jan-14	20-Feb-14	100%	100%	\$0.00													
New Item-RW7820	Internal Wall Formwork	3	24-Dec-13	30-Jan-14	09-Jan-14	28-Dec-13	100%	100%	\$0.00													
New Item-RW7830	Wall Concrete Casting	3	29-Dec-13	22-Feb-14	09-Jan-14	31-Dec-13	100%	100%	\$45,391.80													
New Item-RW7840	Wall concrete Curing and Installation	3	02-Jan-14	01-Jan-14	09-Jan-14	05-Jan-14	100%	100%	\$0.00													
New Item-RW7850	Back Filling at Required Depth	2	07-Jan-14	12-Feb-14	09-Jan-14	08-Mar-14	100%	100%	\$0.00													
Seconded Phase Structural & Concrete Works																						
BT-069-New Item	Supply & Furnish 50cm thickness of rockfill under the foundation of balancing Tank- the last two layers	2	10-Jan-14	12-Feb-14	17-Jun-14	11-Jan-14	100%	100%	\$14,099.74													
BT-070	Supply & spread 25cm B/C layer with compaction test & under ground piping (perforated pipes)	8	12-Jan-14	22-Apr-14	17-Jun-14	23-Jan-14	95%	100%	\$8,371.00													
BT-090	Concrete Casting & Curing B200 under balance tank	1	25-Jan-14	30-Apr-14	17-Jun-14	25-Jan-14	100%	100%	\$0.00													
BT-100	Form/Steel Rebars for Base Slab/Installing Water Stop	9	26-Jan-14	08-Feb-14	17-Jun-14	08-Feb-14	0%	100%	\$5,588.91													
BT-110	Concrete Casting & Curing for Foundation / Base Slab	2	09-Feb-14	10-Feb-14	17-Jun-14	10-Feb-14	0%	100%	\$121,894.22													
BT-150	Form/Steel Rebars for walls & columns	25	12-Feb-14	23-Mar-14	17-Jun-14	23-Mar-14	0%	100%	\$0.00													
BT-160	Casting Concrete for walls & columns	7	25-Mar-14	06-Apr-14	17-Jun-14	06-Apr-14	0%	100%	\$146,413.62													
BT-190	Form/Steel Rebars for Roof Slab	25	07-Apr-14	06-May-14	17-Jun-14	06-May-14	0%	80%	\$0.00													
BT-200	Concrete Casting & Curing for Elevated Roof Slab & Mechanical Finishing	1	07-May-14	07-May-14	17-Jun-14	07-May-14	0%	0%	\$32,785.45													
BT-210	Desluttering for Slab,Curing & Cleaning balance tank	10	13-May-14	24-May-14	17-Jun-14	24-May-14	0%	0%	\$0.00													
BT-211	Initial Testing (1st Stage) for Water Tightness	20	25-May-14	17-Jun-14	17-Jun-14	17-Jun-14	0%	0%	\$0.00													
Retaining Wall Works- Type F																						
New Item-RW7860	Excavation & Rock Back Filling	3	12-Jan-14	13-Jan-14	17-Jun-14	16-Jan-14	75%	100%	\$33													
New Item-RW7870	Lab Test	1	18-Jan-14	19-Jan-14	17-Jun-14	18-Jan-14	100%	100%	\$0.00													
New Item-RW7880	Blinding Concrete	1	19-Jan-14	19-Jan-14	17-Jun-14	19-Jan-14	100%	100%	\$18,913.25													
New Item-RW7890	R.W Base Steel Rebars	2	20-Jan-14	20-Jan-14	17-Jun-14	21-Jan-14	75%	100%	\$33													
New Item-RW7900	R.W Base Concrete Casting	2	23-Jan-14	29-Jan-14	17-Jun-14	25-Jan-14	75%	100%	\$37,826.50													
New Item-RW7910	R.W Base Concrete Curing and Installation	3	26-Jan-14	30-Jan-14	17-Jun-14	30-Jan-14	75%	100%	\$0.00													
New Item-RW7920	External Wall Formwork	3	01-Feb-14	01-Feb-14	17-Jun-14	04-Feb-14	75%	100%	\$33													
New Item-RW7930	Wall Steel Rebar	2	05-Feb-14	04-Feb-14	17-Jun-14	06-Feb-14	75%	100%	\$33													
New Item-RW7940	Internal Wall Formwork	3	08-Feb-14	05-Feb-14	17-Jun-14	10-Feb-14	75%	100%	\$33													
New Item-RW7950	Wall Concrete Casting	2	12-Feb-14	06-Feb-14	17-Jun-14	15-Feb-14	75%	100%	\$30,261.20													
New Item-RW7960	Wall concrete Curing and Installation	2	16-Feb-14	06-Feb-14	17-Jun-14	18-Feb-14	75%	100%	\$33													
New Item-RW7970	Back Filling at Required Depth	2	20-Feb-14	12-Feb-14	17-Jun-14	22-Feb-14	75%	100%	\$33													
Finishing works																						
BT-230	Tie roads remove/repair for external walls	10	13-May-14	17-Jun-14	17-Jun-14	24-May-14	0%	0%	\$3,935.85													
BT-240	Tie roads remove/repair for internal walls	10	13-May-14	17-Jun-14	17-Jun-14	24-May-14	0%	0%	\$0.00													
BT-250	Apply Polyamide Epoxy Surfaces System 102 (Internal Walls) & Base	20	25-May-14	17-Jun-14	17-Jun-14	17-Jun-14	0%	0%	\$0.00													
BT-260	Apply Polyurethane Surfaces System 11 for External Walls & Roof Slab	10	02-Jun-14	12-Jun-14	17-Jun-14	12-Jun-14	0%	0%	\$3,935.85													
Metal Fabricated Works																						
BT-270	Internal & External Ladder For balance tank	9	14-Jun-14	23-Jun-14	17-Jun-14	23-Jun-14	0%	0%	\$39,529.05													
BT-280	Water Level Indicator	4	14-Jun-14	17-Jun-14	17-Jun-14	17-Jun-14	0%	0%	\$30,109.25													
BT-290	Roof Hand Rail&Sideman Way	5	18-Jun-14	23-Jun-14	17-Jun-14	23-Jun-14	0%	0%	\$0.00													
BT-300	Supply And Install Roof Steel Cover	5	18-Jun-14	23-Jun-14	17-Jun-14	23-Jun-14	0%	0%	\$9,419.80													
BT-310	Supply And Install Roof Air Vents	4	18-Jun-14	23-Jun-14	17-Jun-14	23-Jun-14	0%	0%	\$0.00													
Mechanical Works																						
BT-320	Installation Of Inlet, Pipes In The Yard	6	24-Jun-14	19-Jul-14	17-Jun-14	30-Jun-14	0%	0%	\$5,193.74													
BT-330	Installation Of Outlet Pipes In The Yard	6	24-Jun-14	19-Jul-14	17-Jun-14	30-Jun-14	0%	0%	\$0.00													
BT-340	Installation Of Wash Out In The Yard	6	24-Jun-14	19-Jul-14	17-Jun-14	30-Jun-14	0%	0%	\$26,068.45													

█ Actual Level of Effort
 █ Actual Work
 █ Critical Remaining Work
█ Primary Baseline
 █ Remaining Work
 ◆ Milestone



Activity ID	Activity Name	Original Duration	BL Project Start	Actual Start	BL Project Finish	Actual Finish	Performance % Complete	Schedule % Complete	Total Float	BL Project Total Cost	2013 Q2 Q3 Q4 2014 Q1 Q2 Q3 Q4 2015 Q1 Q2 Q3 Q4 2016 Q1											
EMB-300	Installation pipes for plumbing	3	03-Sep-14		07-Sep-14		0%	0%	-75	\$0.00	[Gantt bar for EMB-300]											
Electrical & Instrumentation works											[Gantt bar for Electrical & Instrumentation works]											
EMB-310	Earthing	1	17-May-14		17-May-14		0%	0%	58	\$0.00	[Gantt bar for EMB-310]											
EMB-320	Installation of Utility provided equipment	6	12-Aug-14		19-Aug-14		0%	0%	7	\$3,935.85	[Gantt bar for EMB-320]											
EMB-330	Installation of lights conduit cables, wires, pull box etc.	2	19-Aug-14		21-Aug-14		0%	0%	7	\$0.00	[Gantt bar for EMB-330]											
EMB-340	Installation of medium voltage switch gear	6	21-Aug-14		28-Aug-14		0%	0%	7	\$171,796.40	[Gantt bar for EMB-340]											
HVAC-Plumbing											[Gantt bar for HVAC-Plumbing]											
EMB-350	Installation of Exhaust fans	7	07-Sep-14		15-Sep-14		0%	0%	-14	\$10,233.21	[Gantt bar for EMB-350]											
Coating & Finishing Works											[Gantt bar for Coating & Finishing Works]											
EMB-360	Installation and apply all required coating	7	15-Sep-14		23-Sep-14		0%	0%	-14	\$8,527.67	[Gantt bar for EMB-360]											
Living Quarters											[Gantt bar for Living Quarters]											
Construction Submittals											[Gantt bar for Construction Submittals]											
Materials Submittals											[Gantt bar for Materials Submittals]											
MATARC-050	Prepare & submit Kitchen description	10	22-Feb-14		08-Mar-14		0%	100%	49	\$0.00	[Gantt bar for MATARC-050]											
MATARC-060	Approval of Kitchen description	0			27-Mar-14		0%	100%	69	\$0.00	[Gantt bar for MATARC-060]											
MATARC-070	Prepare & submit toilet description	10	22-Feb-14		08-Mar-14		0%	100%	49	\$0.00	[Gantt bar for MATARC-070]											
MATARC-080	Approval of toilet description	0			27-Mar-14		0%	100%	69	\$0.00	[Gantt bar for MATARC-080]											
MATE106	Prepare & submit electrical panels for living quarters	10	22-Feb-14	26-Nov-13	08-Mar-14		70%	100%	-59	\$0.00	[Gantt bar for MATE106]											
MATE200	Approval of Electrical panels for Electrical Metering building	0			27-Mar-14		0%	100%	165	\$0.00	[Gantt bar for MATE200]											
Shop Drawing Submittals											[Gantt bar for Shop Drawing Submittals]											
1CS110	Prepare & submit shop drawings for living quarters -structural details	10	24-Nov-13	06-Nov-13	04-Dec-13	06-Dec-13	100%	100%	0	\$0.00	[Gantt bar for 1CS110]											
2CS111	Approval of Living quarters shop drawings-structural details	0			23-Dec-13		0%	100%	-32	\$0.00	[Gantt bar for 2CS111]											
ARC110	Prepare & submit Living Quarters finishes	7	03-Dec-13		17-Dec-13		0%	100%	81	\$0.00	[Gantt bar for ARC110]											
ARC111	Approval of living Quarters finishes	0			02-Jan-14		0%	100%	108	\$0.00	[Gantt bar for ARC111]											
ELC149	Prepare & submit living quarters-Details shop drawings	7	18-Dec-13	30-Dec-13	26-Dec-13		80%	100%	-24	\$0.00	[Gantt bar for ELC149]											
ELC150	Approval of living quarters-details shop drawings	0			16-Jan-14		0%	100%	162	\$0.00	[Gantt bar for ELC150]											
Structural & Concrete works											[Gantt bar for Structural & Concrete works]											
LQB-010	Clearing and site preparation	3	04-Jan-14	18-Sep-13	07-Jan-14	21-Sep-13	100%	100%	0	\$0.00	[Gantt bar for LQB-010]											
LQB-020	Demolition of the existing building	3	09-Jan-14	21-Sep-13	12-Jan-14	22-Sep-13	100%	100%	0	\$2,623.65	[Gantt bar for LQB-020]											
LQB-030	Excavation the existing land	7	15-Jan-14	22-Sep-13	23-Jan-14	23-Sep-13	100%	100%	0	\$341.12	[Gantt bar for LQB-030]											
LQB-040	Site Grading	5	25-Jan-14		01-Feb-14		0%	100%	-25	\$747.82	[Gantt bar for LQB-040]											
LQB-050	Leveling for foundation	6	02-Feb-14		09-Feb-14		0%	100%	-25	\$1,192.51	[Gantt bar for LQB-050]											
LQB-060	Form/Steel Rebars for foundation	6	10-Feb-14		20-Feb-14		0%	100%	-25	\$0.00	[Gantt bar for LQB-060]											
LQB-070	Concrete Casting & Curing for Foundation	2	22-Feb-14		23-Feb-14		0%	100%	-25	\$4,959.18	[Gantt bar for LQB-070]											
LQB-100	Rebar works for slab on grade	5	24-Feb-14		03-Mar-14		0%	100%	-25	\$0.00	[Gantt bar for LQB-100]											
LQB-110	Concrete casting for slab on grade	2	05-Mar-14		06-Mar-14		0%	100%	-25	\$2,755.08	[Gantt bar for LQB-110]											
LQB-140	Form/Steel Rebars for walls	5	08-Mar-14		15-Mar-14		0%	100%	-25	\$0.00	[Gantt bar for LQB-140]											
LQB-150	Casting Concrete for walls	2	16-Mar-14		17-Mar-14		0%	100%	-25	\$918.36	[Gantt bar for LQB-150]											
LQB-180	Form/Steel Rebars for Roof Slab	6	19-Mar-14		27-Mar-14		0%	100%	-25	\$0.00	[Gantt bar for LQB-180]											
LQB-190	Concrete Casting & Curing Concrete for Slab	1	29-Mar-14		29-Mar-14		0%	100%	-25	\$3,306.10	[Gantt bar for LQB-190]											
LQB-200	De-shuttering for Slab,Curing & Cleaning living quarters	10	07-Apr-14		17-Apr-14		0%	100%	46	\$0.00	[Gantt bar for LQB-200]											
Finishing works											[Gantt bar for Finishing works]											
LQB-210	Installation interior & exterior Plasters	4	07-Sep-14		11-Sep-14		0%	0%	-75	\$3,935.85	[Gantt bar for LQB-210]											
LQB-219	Installation floor tiles & base materials	3	11-Sep-14		15-Sep-14		0%	0%	-75	\$10,889.18	[Gantt bar for LQB-219]											
LQB-220	Installation Doors & windows	2	15-Sep-14		17-Sep-14		0%	0%	-52	\$6,494.15	[Gantt bar for LQB-220]											
LQB-240	Installation of all architectural elements	2	17-Sep-14		20-Sep-14		0%	0%	-52	\$28,862.89	[Gantt bar for LQB-240]											
Electrical & Instrumentation works											[Gantt bar for Electrical & Instrumentation works]											
LQB-290	Finish & Installation of panels,wires, conduits,cables,lights	7	01-Jun-14		08-Jun-14		0%	0%	50	\$9,183.65	[Gantt bar for LQB-290]											
HVAC-Plumbing											[Gantt bar for HVAC-Plumbing]											
LQB-300	Installation of Split system air conditioning unit/plumbing equipment and piping	7	09-Jun-14		16-Jun-14		0%	0%	50	\$6,297.36	[Gantt bar for LQB-300]											
Coating & Finishing Works											[Gantt bar for Coating & Finishing Works]											
LQB-310	Installation and apply all required coating	10	17-Jun-14		28-Jun-14		0%	0%	50	\$3,279.88	[Gantt bar for LQB-310]											
Septic Tank & Seepage Pit											[Gantt bar for Septic Tank & Seepage Pit]											
Shop Drawing Submittals											[Gantt bar for Shop Drawing Submittals]											
CS102	Prepare & Submit Shop Drawings for Septic & Seepage Tank -Structural details	26	28-Dec-13		01-Feb-14		0%	0%	81	\$0.00	[Gantt bar for CS102]											
CS103	Approval of Shop Drawings for Septic & Seepage Tank -structural details	0			12-Jan-14		0%	100%	-24	\$0.00	[Gantt bar for CS103]											
Structural & Concrete works											[Gantt bar for Structural & Concrete works]											
STS-010	Clearing and site preparation	3	10-Feb-14		15-Feb-14		0%	100%	64	\$0.00	[Gantt bar for STS-010]											
STS-020	Demolition of the existing building	3	16-Feb-14		20-Feb-14		0%	100%	64	\$1,311.94	[Gantt bar for STS-020]											
STS-030	Excavation works	2	22-Feb-14		23-Feb-14		0%	100%	64	\$629.70	[Gantt bar for STS-030]											
STS-040	Sub Grade Preparation	3	24-Feb-14		27-Feb-14		0%	100%	60	\$76.10	[Gantt bar for STS-040]											
STS-050	leveling for foundation	14	01-Mar-14		22-Mar-14		0%	100%	60	\$223.00	[Gantt bar for STS-050]											
STS-060	Form/Steel Rebars for base slab	5	23-Mar-14		30-Mar-14		0%	100%	60	\$655.97	[Gantt bar for STS-060]											
STS-070	Concrete Casting & Curing for base slab	2	31-Mar-14		03-Apr-14		0%	100%	60	\$0.00	[Gantt bar for STS-070]											
STS-100	Form work and steel rebar to walls	5	06-Apr-14		10-Apr-14		0%	100%	60	\$0.00	[Gantt bar for STS-100]											
STS-110	Concrete Casting & Curing for walls	2	12-Apr-14		13-Apr-14		0%	100%	60	\$0.00	[Gantt bar for STS-110]											
STS-140	Form/Steel Rebars for roof slab	5	14-Apr-14		19-Apr-14		0%	100%	60	\$0.00	[Gantt bar for STS-140]											
STS-150	Concrete Casting for roof slab	2	20-Apr-14		21-Apr-14		0%	100%	60	\$2,230.30	[Gantt bar for STS-150]											
STS-160	Concrete curing & De-shuttering works	7	22-Apr-14		29-Apr-14		0%	100%	60	\$0.00	[Gantt bar for STS-160]											
STS-161	Furnish & install Hatches, Ladders & all other metal works	5	30-Apr-14		06-May-14		0%	0%	60	\$905.25	[Gantt bar for STS-161]											
Plumbing works											[Gantt bar for Plumbing works]											
STS-230	Installation of all required pipes	1	07-May-14		08-May-14		0%	0%	86	\$7,858.58	[Gantt bar for STS-230]											
STS-240	Installation of Mechanical Equipment	1	08-May-14		08-May-14		0%	0%	86	\$7,858.58	[Gantt bar for STS-240]											
Finishing works											[Gantt bar for Finishing works]											
STS-250	Installation all required coating	1	10-May-14		10-May-14		0%	0%	86	\$0.00	[Gantt bar for STS-250]											
Chlorination Building											[Gantt bar for Chlorination Building]											
Construction Submittals											[Gantt bar for Construction Submittals]											
Materials Submittals											[Gantt bar for Materials Submittals]											
MATM106	Prepare & submit pipes & fittings of chlorination & storage building	27	15-Jan-14		28-Jan-14		0%	0%	-28	\$0.00	[Gantt bar for MATM106]											
MATM107	Approval of pipes & fittings for chlorination & storage building	0			16-Feb-14		0%	100%	-28	\$0.00	[Gantt bar for MATM107]											
Shop Drawing Submittals											[Gantt bar for Shop Drawing Submittals]											
1CS104	Prepare & submit Shop Drawings of Chlorination Building-structural details	10	30-Jan-14		12-Feb-14		0%	100%	-24	\$0.00	[Gantt bar for 1CS104]											
2CS105	Approval of Shop Drawings of Chlorination Building-structural details	0			05-Mar-14		0%	100%	-29	\$0.00	[Gantt bar for 2CS105]											
ARC126	Prepare & submit chlorination building finishes	10	15-Feb-14		01-Mar-14		0%	100%	81	\$0.00	[Gantt bar for ARC126]											
ARC127	Approval of chlorination building finishes	0			20-Mar-14		0%	100%	107	\$0.00	[Gantt bar for ARC127]											
MEC102	Prepare & submit Mechanical Plans & Sections for chlorination building	7	18-Feb-14		27-Feb-14		0%	100%	-23	\$0.00	[Gantt bar for MEC102]											
MEC103	Approval of Mechanical Plans & Sections for chlorination building	0			19-Mar-14		0%	100%	125	\$0.00	[Gantt bar for MEC103]											
Structural & Concrete works											[Gantt bar for Structural & Concrete works]											
CHB-010	Clearing and site preparation	4	30-Mar-14		06-Apr-14		0%	0%	-25	\$0.00	[Gantt bar for CHB-010]											
CHB-020	Demolition of the existing building	4	07-Apr-14		10-Apr-14		0%	0%	-25	\$0.00	[Gantt bar for CHB-020]											
CHB-030	Excavation the existing land	5	12-Apr-14		16-Apr-14		0%	0%	-25	\$944.64	[Gantt bar for CHB-030]											
CHB-040	Site Grading	5	17-Apr-14		22-Apr-14		0%	0%	-25	\$590.38	[Gantt bar for CHB-040]											

■ Actual Level of Effort
 ■ Actual Work
 ■ Critical Remaining Work
■ Primary Baseline
 ■ Remaining Work
 ◆ Milestone



Activity ID	Activity Name	Original Duration	BL Project Start	Actual Start	BL Project Finish	Actual Finish	Performance % Complete	Schedule % Complete	Total Float	BL Project Total Cost	Gantt Chart (2013-2016)											
CP1800	Hydraulic test & Disinfection	3	23-Jan-14		26-Jan-14		0%	100%	164	\$1,770.00	[Gantt bar for CP1800]											
CP1801	Final Backfilling & Compaction	5	28-Jan-14		04-Feb-14		0%	100%	164	\$10,300.00	[Gantt bar for CP1801]											
From Sta.0+500 to Sta 1+000 Conveyance Pipe & Chamber Installation-6											[Gantt bar for summary activity]											
Construction of 250mm Pipe											[Gantt bar for summary activity]											
CP1060	Trench Excavation	5	18-Jan-14	03-Mar-14	23-Jan-14	06-Mar-14	100%	100%		\$9,185.00	[Gantt bar for CP1060]											
CP1070	Bedding	5	18-Jan-14	03-Mar-14	23-Jan-14	06-Mar-14	100%	100%		\$12,465.00	[Gantt bar for CP1070]											
CP1075	Steel Pipes laying & welding	5	18-Jan-14	03-Mar-14	23-Jan-14	06-Mar-14	100%	100%		\$5,640.00	[Gantt bar for CP1075]											
CP1080	Chambers Installation Works	3	02-Feb-14		05-Feb-14		0%	100%	146	\$0.00	[Gantt bar for CP1080]											
Valves Installation											[Gantt bar for summary activity]											
CP1090	Supply, Install Combination Air Valve at Sta 0+611	1	18-Jan-14		18-Jan-14		0%	100%	167	\$8,225.83	[Gantt bar for CP1090]											
Finishing Work											[Gantt bar for summary activity]											
CP1810	Restoration, Cleaning, Washing	1	19-Jan-14		19-Jan-14		0%	100%	167	\$0.00	[Gantt bar for CP1810]											
CP1830	Hydraulic test & Disinfection	3	20-Jan-14		23-Jan-14		0%	100%	167	\$1,770.00	[Gantt bar for CP1830]											
CP1841	Final Backfilling & Compaction	5	25-Jan-14		01-Feb-14		0%	100%	167	\$10,300.00	[Gantt bar for CP1841]											
From Sta.0+000 to Sta 0+ 500 Conveyance Pipe & Chamber Installation											[Gantt bar for summary activity]											
Construction of 250mm Pipe											[Gantt bar for summary activity]											
CP1570	Trench Excavation	5	25-Jan-14	06-Mar-14	01-Feb-14	22-Mar-14	100%	100%		\$9,185.00	[Gantt bar for CP1570]											
CP1580	Bedding	5	25-Jan-14	06-Mar-14	01-Feb-14	22-Mar-14	100%	100%		\$12,465.00	[Gantt bar for CP1580]											
CP1585	Steel Pipes laying & welding	5	25-Jan-14	06-Mar-14	01-Feb-14	22-Mar-14	100%	100%		\$5,640.00	[Gantt bar for CP1585]											
CP1590	Chambers Installation Works	5	25-Jan-14	01-Feb-14			0%	100%	146	\$0.00	[Gantt bar for CP1590]											
Valves Installation											[Gantt bar for summary activity]											
CP1540	Supply, Install PN Combination Air Valve at Sta 0+200	1	25-Jan-14		25-Jan-14		0%	100%	167	\$8,225.83	[Gantt bar for CP1540]											
CP1550	Supply, Install washout at Sta 0+016	1	25-Jan-14		25-Jan-14		0%	100%	167	\$16,792.96	[Gantt bar for CP1550]											
Finishing Work											[Gantt bar for summary activity]											
CP1840	Restoration, Cleaning, Washing	1	02-Feb-14		02-Feb-14		0%	100%	167	\$0.00	[Gantt bar for CP1840]											
CP1860	Hydraulic test & Disinfection	3	04-Feb-14		06-Feb-14		0%	100%	167	\$1,770.00	[Gantt bar for CP1860]											
CP1861	Final Backfilling & Compaction	5	08-Feb-14		15-Feb-14		0%	100%	167	\$10,300.00	[Gantt bar for CP1861]											
Asphalt work											[Gantt bar for summary activity]											
CP1100	Reinstatement & Asphaltting Over Trench from Sta 0+000 to Sta 3+620	15	16-Mar-14	25-Feb-14	08-Apr-14		39.54%	100%	162	\$147,327.60	[Gantt bar for CP1100]											
Post Construction Phase											[Gantt bar for summary activity]											
A6760	Startup, Testing, Commissioning, & Training	15	14-Dec-14		05-Jan-15		0%	0%	-75	\$131,195.00	[Gantt bar for A6760]											
A6770	Demobilization	14	15-Dec-14		07-Jan-15		0%	0%	-74	\$65,322.00	[Gantt bar for A6770]											

█ Actual Level of Effort
 █ Actual Work
 █ Critical Remaining Work
█ Primary Baseline
 █ Remaining Work
 ◆ Milestone



Activity ID	Activity Name	Original Duration	BL Project Start	Actual Start	BL Project Finish	Actual Finish	Performance % Complete	Schedule % Complete	Total Float	BL Project Total Cost	2013	2014	2015	2016											
											Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1				
Updated Time Schedule till 26-4- Qabatiya Well Pump Station and Conveyance System											14-Aug-14, Updated Time Schedule till 26-4- Qabatiya Well Pump Station and Conveyance System														
Milestones																									
General Milestones																									
Intermediate Milestones																									
Coordination with PWA & Engineer Before Construction Phase																									
Mobilization																									
Submittals																									
Pre-Construction Submittals																									
Construction Submittals																									
Material Submittals																									
MATE100	Prepare & submit Electrical Panels,light accessories,conduites,wires,pull box, for Chlorination & Storage Buidn	10	03-Dec-13	12-Aug-13	21-Dec-13		50%	100%	-59	\$0.00															
MATE101	Approval of Electrical Panels,light accessories,conduites,wires,pull box, for Chlorination & Storage Building	0					0%	0%	-1	\$0.00															
MATE102	Prepare & submit Electrical motor control centers-Electrical Control Building	10	03-Dec-13		21-Dec-13		0%	100%	-1	\$0.00															
MATE103	Approval of motor control centers-Electrical Control Building	0			07-Jan-14		0%	100%	-1	\$0.00															
MATE107	Approval of electrical panels for living quarters	0			07-Jan-14		0%	100%	-18	\$0.00															
MATE108	Prepare & submit Hydroponematic Control Bladder Tank	10	03-Dec-13		21-Dec-13		0%	100%	-59	\$0.00															
MATE109	Approval of Hydroponematic Control Bladder Tank	0			07-Jan-14		0%	100%	23	\$0.00															
MATE112	Prepare & submit Instrumentation & Control Equipment	10	22-Dec-13		04-Jan-14		0%	100%	-59	\$0.00															
MATE174	Prepare & submit Control System, Hardware & Software, Electrical & Control Building	10	29-Dec-13		15-Jan-14		0%	100%	-59	\$0.00															
MATE214	Prepare & submit medium voltage switchgear	10	29-Dec-13		15-Jan-14		0%	100%	-59	\$0.00															
MATM100	Prepare & Submit Well Pump & VFDs	10	29-Dec-13		15-Jan-14		0%	100%	-59	\$0.00															
MATM108	Prepare & submit Hydroponematic Control Bladder Tank	10	29-Dec-13		15-Jan-14		0%	100%	-10	\$0.00															
MATM110	Prepare & Submit Booster pump	10	29-Dec-13		15-Jan-14		0%	100%	-10	\$0.00															
Post Construction Submittals																									
Procurement																									
Conveyance Pipe and fittings																									
Yard- Pressure Piping																									
PROC108	Manufacture of Pressure Piping	70	08-Apr-14		20-Jul-14		0%	0%	33	\$0.00															
Yard - Gravity Piping																									
PROC146	Manufacture the Gravity Piping	70	08-Apr-14		20-Jul-14		0%	21.43%	38	\$0.00															
Line Shaft Well Pump & VFDs																									
Booster Pumps																									
Hydroponematic Tank																									
MCC's, Transformer, & Electrical Switchgear																									
Instrumentation & Control Equipment																									
Hardware,Software & Instruments																									
Construction Phase																									
Civil & Electro-Mechanical Works																									
Existing Well Pump Works 1st Phase																									
1000m3 Balance Tank																									
Construction Submittals																									
Materials Submittals																									
Shop Drawing Submittals																									
Balance Tank Civil Works																									
First Phase Structural & Concrete works																									
Retaining Wall Works- Type E																									
Second Phase Structural & Concrete Works																									
BT-100	Form/Steel Rebars for Base Slab/Installing Water Stop	9	26-Jan-14		08-Feb-14		0%	100%	-46	\$5,588.91															
BT-110	Concrete Casting & Curing for Foundation / Base Slab	2	09-Feb-14		10-Feb-14		0%	100%	-46	\$121,894.22															
BT-150	Form/Steel Rebars for walls & columns	25	12-Feb-14		23-Mar-14		0%	100%	-46	\$0.00															
Retaining Wall Works- Type F																									
Finishing works																									
Metal Fabricated Works																									
Mechanical Works																									
Electrical & Instrumentation works																									
BT-380	Earthing	1	09-Feb-14		09-Feb-14		0%	0%	123	\$0.00															
Balance Test																									
Existing Well Pump Works 2nd Phase																									
WPD-001																									
WPD-001	Remove Existing Well Pumping Unit	5	03-Dec-13		08-Dec-13		0%	100%	158	\$0.00															
WPD-005	Well Acidification	2	09-Dec-13		17-Dec-13		0%	100%	158	\$43,501.50															
WPD-006	Well Development	5	18-Dec-13		23-Dec-13		0%	100%	158	\$70,845.30															
WPD-008	Well Cleaning	4	24-Dec-13		29-Dec-13		0%	100%	158	\$0.00															
WPD-009	Well Disinfection	1	30-Dec-13		30-Dec-13		0%	100%	158	\$22,372.20															
WPD-016	Reinstallation of Existing Well Pump	2	31-Dec-13		02-Jan-14		0%	100%	158	\$0.00															
Booster Pump System																									
Shop Drawing Submittals																									
MEC104	Prepare & submit of Mechanical Panels & sections for Booster pump station	7	04-Jan-14		16-Jan-14		0%	100%	-75	\$0.00															
MEC105	Approval of Mechanical Panels & sections for Booster pump station	0			04-Feb-14		0%	100%	-101	\$0.00															
Structural & Concrete works																									
BPS-080	Foundation & slab on grade works	5	09-Feb-14		16-Feb-14		20%	100%	-49	\$7,346.88															
BPS-080	Booster pump walls works	8	18-Feb-14		01-Mar-14		20%	100%	-49	\$13,775.44															
Finishing works																									
BPS-110	Furnish & install Structural steel and roofing including roof hatches	15	03-Mar-14		25-Mar-14		0%	100%	-60	\$13,188.10															
BPS-120	Furnish & install grating,plates,embeds, ladders	10	03-Mar-14		17-Mar-14		0%	100%	-60	\$7,543.71															
Mechanical Works																									
Electrical & Instrumentation works																									
Coating works																									
Electrical Metering Building																									
Construction Submittals																									
Materials Submittals																									
MATARC-010	Prepare & submit tiles data sheet	10	05-Feb-14		20-Feb-14		0%	100%	-75	\$0.00															
MATARC-030	Prepare & submit Paint data sheet	10	05-Feb-14		20-Feb-14		0%	100%	-75	\$0.00															
Shop Drawing Submittals																									
Structural & Concrete works																									
Finishing works																									
Mechanical Works																									
Electrical & Instrumentation works																									
HVAC-Plumbing																									
Coating & Finishing Works																									
Living Quarters																									
Construction Submittals																									
Materials Submittals																									

TASK filter: 1 Month Aii.

■ Actual Level of Effort
 ■ Actual Work
 ■ Critical Remaining Work
■ Primary Baseline
 ■ Remaining Work
 ◆ Milestone

