

**CITY OF NAPLES
PURCHASING DIVISION
CITY HALL, 735 8TH STREET SOUTH
NAPLES, FLORIDA 34102
PH: 239-213-7100 FX: 239-213-7105**

ADDENDUM NUMBER 1

NOTIFICATION DATE:	BID TITLE:	BID NUMBER:	BID OPENING DATE & TIME:
07/30/12	STORMWATER ASR EXPLORATORY WELL	052/12	08/07/12 2:00PM

**THE FOLLOWING INFORMATION IS HEREBY INCORPORATED INTO,
AND MADE AN OFFICIAL PART OF THE ABOVE REFERENCED BID.**

1) At the site location, will a fence be needed?

ANSWER: Yes, a full work site perimeter fence will be needed at contractor expense.

2) What permitting was required?

ANSWER: Attached is FDEP Exploratory Well Construction Draft Permit (FDEP File No. 51762-116-UC-5X). Also attached is a fact sheet that FDEP sent with the permit which has details about the depth of the exploratory well and public meeting requirements from FDEP. Please note that all additional permitting, if required, shall be per the contractor (NPDES, SFWMD). Also, no City of Naples building permit is required.

3) What is the anticipated well depth?

ANSWER: Anticipated well depth will depend on subsurface geologic conditions. As stated in the bid package, research indicates anticipated drilling depth to 1,350' and the FDEP draft permit allows drilling depth up to 1,500'.

4) What are the hours of operation?

ANSWER: Working hours beyond 7:00 am through 7:00 pm Monday-Saturday will require approval from City of Naples Building Department (Paul Bollenback, 213-5037).

5) When will the project start?

ANSWER: After receiving bids and selecting a contractor, this project will go in front of City Council for contract award in mid-September. Upon approval by City Council, our department will issue a Notice to Proceed.

6) What is the budget for the project?

ANSWER: Our engineer's estimate indicates an anticipated construction cost for this project ranging from \$150,000 to \$250,000.

IMPORTANT MESSAGE

PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE BID COVER SHEET.

7) Please clarify the need for Checklist documentation showing a firm is a Certified Minority Business Enterprise (MBE).

ANSWER: Documentation on MBE is for internal tracking and audit related to the City's Comprehensive Annual Financial Report (CAFR). This is voluntary information (non-mandatory), and will have no impact on proposal scoring or evaluation.

Additional Information Exhibits:

- **Addendum I - Exhibit A** – Exploratory Well Construction Draft Permit (FDEP File No. 51762-116-UC-5X) and related documents
- **Addendum I - Exhibit B** – List of Pre-bid Attendees
- **Addendum I – Page 16 and Page 30 of Request for Proposals** – See revised Page 16 and 30 attached. Also note that the depths shown on Drawing C-3, Sheet 4 of 5, should be adjusted as needed to reflect the change in potential well casing and drill depths as indicated in revised pages 16 and 30. The final depths will be determined at the time of construction.

IMPORTANT MESSAGE

PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE BID COVER SHEET.

Addendum I - Exhibit A

Exploratory Well Construction Draft Permit (FDEP File No.
51762-116-UC-5X) and related documents



Florida Department of Environmental Protection

South District Office
Post Office Box 2549
Fort Myers, Florida 33902-2549

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

SENT VIA ELECTRONIC MAIL:

In the Matter of an
Application for Permit by:

July 23, 2012

Mr. Gregg R. Strakaluse, P.E., Director
City of Naples Streets and Stormwater Dept.
295 Riverside Circle
Naples, Florida 34102
Email: gstrakaluse@naplesgov.com

Collier County - UIC
FDEP File No. 51762-116-UC/5X
City of Naples EW-1 Expl. Permit
Construction Permit Application

NOTICE OF DRAFT PERMIT

The Department of Environmental Protection hereby provides Notice that a Draft permit has been prepared for the proposed project as detailed in the application specified above, for the reasons stated below.

The applicant, City of Naples, Mr. Gregg Strakaluse, P.E., Director Streets and Stormwater Dept., 295 Riverside Circle, Naples, Florida 34102 applied on April 24, 2012 to the Department of Environmental Protection for a permit to construct one, (1), Class V, Group 9, Exploratory well, (EW-1) designed as a Class V, Non-USDW ASR Well.

The Department has permitting jurisdiction under chapter 403 of the Florida Statutes, and Chapters 62-4, 62-520, 62-528, and 62-550 of the Florida Administrative Code. The project is not exempt from permitting procedures. The Department has determined that an exploratory construction permit is required for the proposed work.

Pursuant to Section 403.815 of the Florida Statutes, and Rule 62-110.106 (7) of the Florida Administrative Code, you (the applicant) are required to publish at your own expense the enclosed Notice of Draft Permit. The Notice must be published one time only within 30 days, in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031 of the Florida Statutes, in the county where the activity is to take place. The applicant shall provide proof of publication to the South District Office of the Department within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

The Department will accept public comment concerning this proposed permit action for a minimum of 30 days following publication of this Notice. Any interested person may submit written comments on the draft permit and may request a public meeting within 30 days of the public notice. A request for a public meeting shall be in writing and shall state the nature of the issues proposed to be raised in the meeting. If a public meeting is later scheduled, there will be another 30-day notice period for that meeting. Written comments or a public meeting request may be submitted to the Department of

Environmental Protection, P.O. Box 2549, Fort Myers, Florida 33902-2549. All comments received within the 30-day period will be considered in formulation of the Department's final decision regarding permit issuance. Please contact Mr. David Rhodes, P.G., at (239) 344-5687 to arrange for the public meeting.

The application, draft permit, and fact sheet are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Department of Environmental Protection, South District, 2295 Victoria Ave, Fort Myers, Florida 33902. Additional information concerning this project may be obtained by contacting David Rhodes, P. G. at (239) 344-5687.

Executed in Lee County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Jon M. Iglehart
Director of
District Management

CERTIFICATE OF SERVICE

The undersigned designated clerk hereby certifies that this **NOTICE OF DRAFT PERMIT** and all copies were mailed before the close of business on July 23, 2012 to the listed persons.

Clerk Stamp

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Julio D. La Mesa

7/23/12

Clerk

Date

JMI/DR/jl

Enclosure

Cc Nancy Marsh, EPA (marsh.nancy@epa.gov)
Joe Haberfeld, FDEP (joe.haberfeld@dep.state.fl.us)
James Alexander, FDEP (james.alexander@dep.state.fl.us)
Albert Muniz, P.E., Hazen and Sawyer, (amuniz@hazenandsawyer.com)
Bob Middleton, Naples, (RMiddleton@naplesgov.com)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NOTICE OF DRAFT PERMIT

The Department of Environmental Protection hereby provides Notice that a Draft permit has been prepared for the proposed project as detailed in the application specified herein, for the reasons contained below; the applicant, City of Naples Stormwater Division, Mr. Gregg Strakaluse, P.E., Director, 295 Riverside Circle, Naples, Florida 34102 applied on April 24, 2012 to the Department of Environmental Protection, for a permit to construct one, (1), Class V, Group 9, Exploratory Well (EW-1). The project is located at the Cove Stormwater Pumping Station, 9th Street South and Broad Avenue, Naples, Florida in the County of Collier. (File No.51762-116-UC/5X). The purpose of the well is to determine suitability of the site for injection, storage, and recovery of non-hazardous stormwater and reclaimed water from the Cove Stormwater Pumping facility and the City of Naples WRF, into the Suwanee Formation and/or Upper Avon Park Formation. Injection is not allowed under this permit. A future Class 5 construction/testing permit is required to conduct injection.

Construction of one, (1), Class V, Group 7, exploratory well, (EW-1), with nominal Sixteen-inch, (16"), outside diameter, (O.D.), steel, 0.375-inch wall thickness, surface casing to approximately 750 feet below land surface (bls), and a total pilot hole depth of approximately 1500 feet bls. Exploration and testing is proposed into the Suwanee Formation and/or Upper Avon Park Formation via an open hole interval occurring from approximately 750 feet to approximately 1500 feet bls. for the primary purpose of determining suitability of the site for injection, storage, and recovery of non-hazardous stormwater and reclaimed water from the Cove Stormwater Pumping facility and City of Naples WRF, into the Suwanee Formation and/or Upper Avon Park Formation via deep well injection.

The Department will accept public comment concerning this proposed permit action for a minimum of 30 days following publication of this Notice. Any interested person may submit written comments on the draft permit and may request a public meeting within 30 days of the public notice. A request for a public meeting shall be in writing and shall state the nature of the issues proposed to be raised in the meeting. If a public meeting is later scheduled, there will be another 30-day notice period for that meeting. Written comments or a public meeting request may be submitted to the Department of Environmental Protection, P.O. Box 2549, Fort Myers, Florida 33902-2549. All comments received within the 30-day period will be considered in formulation of the Department's final decision regarding permit issuance. Please contact Mr. David Rhodes, P.G., at (239) 344-5687 to arrange for the public meeting.

The application, draft permit, and fact sheet are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Department of Environmental Protection, South District, 2295 Victoria Ave, Fort Myers, Florida 33902. Additional information concerning this project may be obtained by contacting David Rhodes, P. G. at (239) 344-5687.



Florida Department of Environmental Protection

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

South District
P.O. Box 2549
Fort Myers, Florida 33902-2549

PERMIT

PERMITTEE:

Mr. , Gregg Strakaluse, P.E., Director
City of Naples Stormwater
295 Riverside Circle
Naples, Florida 34102
Email: gstrakaluse@naplesgov.com

Collier County - UIC
File Number: 51762-116-UC/5X
Date of Issue: **Draft**
Expiration Date: **Draft**
Latitude: 26° 08' 03" N
Longitude: 81° 47' 37" W
Township, Section, and Range: T50S/ 10/R 25E
City of Naples Cove Stormwater Pump Station
Class V Exploratory Well Construction

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Rules 62-4, 62-520, 62-528, and 62-550. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the Department and made a part hereof and specifically described as follows:

Construction of one, (1), Class V, Group 9, exploratory well, (EW-1), with nominal Sixteen-inch, (16"), outside diameter, (O.D.), steel, 0.375-inch wall thickness, surface casing to approximately 750 feet below land surface (bls), and a total pilot hole depth of approximately 1500 feet bls. Exploration and testing is proposed into the Suwanee Formation and/or Upper Avon Park Formation via an open hole interval occurring from approximately 750 feet to approximately 1500 feet bls. for the primary purpose of determining suitability of the site for injection, storage, and recovery of non-hazardous stormwater and reclaimed water from the Cove Stormwater Pumping facility and City of Naples WRF, into the Suwanee Formation and/or Upper Avon Park Formation via deep well injection. As requested, Specific Condition 9 as follows requires the submittal of an updated AOR study prior to receiving permission to spud this well.

The Application to Construct/Operate/Abandon Class I, III, or V Injection well System (DEP Form 62-528.900(1)), was received April 24, 2012, with supporting documents and additional information last received May 30, 2012. The application was determined to be complete on June 29, 2012. Demonstration of Financial Responsibility is not necessary for this project, at this time. The project is located at the Cove Stormwater Pumping Station, 9th Street South and Broad Avenue, Naples, Florida in the County of Collier. (File No.51762-116-UC/5X).

Subject to Specific Conditions 1-9.

Mr. Gregg R. Strakaluse, P.E., Director
City of Naples Streets and Stormwater Dept.
295 Riverside Circle
Naples, Florida 34102
Email: gstrakaluse@naplesgov.com

Collier County - UIC
FDEP File Number: 51762-116-UC/5X
Date of Issue: **Draft**
Expiration Date: **Draft**
Class V Exploratory Well Construction

SPECIFIC CONDITIONS:

1. General Criteria, All UIC Permits:

- a. The terms, conditions, requirements, limitations and restrictions set forth in this permit are "permit conditions" and are binding and enforceable pursuant to section 403.141, F.S.
- b. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action.
- c. As provided in subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
- d. This permit conveys no title to land, water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- e. This permit does not relieve the permittee from liability for harm to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefrom; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
- f. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, or are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
- g. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
 1. Have access to and copy any records that must be kept under conditions of this permit;
 2. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
 3. Sample or monitor any substances or parameters at any location reasonably necessary to

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Class V Exploratory Well Construction

SPECIFIC CONDITIONS:

assure compliance with this permit or Department rules.

Reasonable time will depend on the nature of the concern being investigated.

- h. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - 1. A description of and cause of noncompliance; and
 - 2. The period of noncompliance, including dates and times; or, if not corrected the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent the recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
- i. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- j. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
- k. This permit is transferable only upon Department approval in accordance with rules 62-4.120 and 62-528.350, F.A.C. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
- l. This permit or a copy thereof shall be kept at the work site of the permitted activity.
- m. The permittee shall comply with the following:
 - 1. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records shall be extended automatically unless the Department determines that the records are no longer required.
 - 2. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the

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FDEP File Number: 51762-116-UC/5X
Date of Issue: **Draft**
Expiration Date: **Draft**
Class V Exploratory Well Construction

SPECIFIC CONDITIONS:

application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

3. Records of monitoring information shall include:
 - a. the date, exact place, and time of sampling or measurements;
 - b. the person responsible for performing the sampling or measurements;
 - c. the dates analyses were performed;
 - d. the person responsible for performing the analyses;
 - e. the analytical techniques or methods used;
 - f. the results of such analyses.
4. The permittee shall furnish to the Department, within the time requested in writing, any information which the Department requests to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
5. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.
- n. All applications, reports, or information required by the Department shall be certified as being true, accurate, and complete.
- o. Reports of compliance or noncompliance with, or any progress reports on, requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each scheduled date.
- p. Any permit noncompliance constitutes a violation of the Safe Drinking Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- q. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- r. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.
- s. This permit may be modified, revoked and reissued, or terminated for cause, as provided in 40 C.F.R. sections 144.39(a), 144.40(a), and 144.41 (1998). The filing of a request by the permittee for a permit modification, revocation or reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

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Class V Exploratory Well Construction

SPECIFIC CONDITIONS:

- t. The permittee shall retain all records of all monitoring information concerning the nature and composition of injected fluid until five years after completion of any plugging and abandonment procedures specified under rule 62-528.435, F.A.C. The permittee shall deliver the records to the Department office that issued the permit at the conclusion of the retention period unless the permittee elects to continue retention of the records.
- u. All reports and other submittals required to comply with this permit shall be signed by a person authorized under rules 62-528.340(1) or (2), F.A.C. All reports shall contain the certification required in rule 62-528.340(4), F.A.C.
- v. The permittee shall notify the Department as soon as possible of any planned physical alterations or additions to the permitted facility. In addition, prior approval is required for activities described in rule 62-528.410(1)(h).
- w. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or injection activity which may result in noncompliance with permit requirements.
- x. The permittee shall report any noncompliance which may endanger health or the environment including:
 - 1. Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water; or
 - 2. Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

2. SITE REQUIREMENTS

- a. A drilling pad shall be provided to collect spillage of contaminants and to support the heaviest load that will be encountered during drilling.
- b. The disposal of drilling fluids, cuttings, formation water or waste shall be in a sound environmental manner that avoids violation of surface and ground water quality standards. The disposal method shall be approved by the Department prior to start of construction.

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Class V Exploratory Well Construction

SPECIFIC CONDITIONS:

- c. Specific drilling pad dimensions and design details shall be provided to and approved by the Department prior to commencing construction (and shortly after selection of drilling contractor).
- d. Hurricane Preparedness - Upon the issuance of a "Hurricane Watch" by the National Weather Service, the preparations to be made include, but are not necessarily limited to, the following:
 1. Secure all on-site salt and other stockpiled additive materials to prevent surface and/or ground water contamination.
 2. Properly secure drilling equipment and rig(s) to prevent damage to well(s) and on-site treatment process equipment.
- e. The water table monitoring wells surrounding the injection well pad shall be sampled and analyzed prior to drilling this injection well and then weekly thereafter. Sampling shall include specific conductance, pH, chloride, temperature and water level.
- f. Pursuant to Rule 62-528.455(1)(c)6., F.A.C., a survey indicating the exact location in metes and bounds of all wells authorized by this permit shall be provided prior to issuance of an operating permit.

3. CONSTRUCTION AND TESTING REQUIREMENTS

- a. This well may not be spudded until the permittee receives written acceptance of the updated AOR study as required by Specific Condition 9. The permittee shall contact the Technical Advisory Committee (TAC) chairman so that he may schedule progress review meetings at appropriate times with the TAC and permittee for the purpose of reviewing the results of tests, geophysical logging, surveys, drilling records and construction problems.
- b. All drilling shall be inside a blow out preventer upon penetration of the Floridan Aquifer.
- c. Mechanical integrity testing is a two-part demonstration which includes a pressure test to demonstrate that no leaks are present in the casing, tubing or packer and a temperature or noise log and radioactive tracer survey to demonstrate the absence of leaks behind the casing. Verification of pressure gauge calibration must be provided at the scheduled tests.
- d. Department approval and Technical Advisory Committee (TAC) review pursuant to F.A.C. Rule 62-528 is required for the following stages of construction:
 1. Surface casing seat selection for injection well.
 2. Intermediate casing seat selection for injection well.

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SPECIFIC CONDITIONS:

3. Final casing seat selection for injection well.
 4. Prior to conducting the short term injection test, a revised testing plan must be submitted and approved prior to running the test.
 5. Prior to operational (long term) testing with stormwater, wastewater or a blend of the two source waters.
 6. The permittee shall submit all necessary supporting documentation/data, with interpretation, to the TAC for review.
- e. The cementing program, as required in Section 62-528.410(5), Florida Administrative Code, shall be submitted to the Department and the Technical Advisory Committee for review. Cementing shall not commence prior to approval being granted.
 - f. All temperature surveys (except for mechanical integrity demonstration) shall be run within 48 hours after cementing.
 - g. TAC meetings are scheduled on the 1st Tuesday of each month subject to a 5 working day prior notice and timely receipt of critical data by all TAC members. Emergency meetings may be arranged when justified to avoid undue construction delay.
 - h. The Permittee shall insure that safe internal pressures are maintained during the cementing of all casings and tubings.
 - i. The injection zone shall be sampled for background water quality prior to commencement of any injection testing. Parameters to be measured are the primary and secondary drinking water standards (except asbestos, dioxin, epichlorhydrin, acrylamide, and Pesticides and PCB parameters required in Table 5 of Chapter 62-550, F.A.C..
 - j. The injection and monitor well(s) at the site shall be abandoned when no longer usable for their intended purpose, or when posing potential threat to the quality of the waters of the State. Within 180 days of well abandonment, the permittee shall submit to the Department and the TAC the proposed plugging method, pursuant to Rule 62-528.435, F.A.C.
 - k. All salt used in well drilling shall be stored in an environmentally sound manner. Accurate records shall be kept on the amount of salt used.
 - l. All dual induction, sonic and caliper geophysical logs run on the pilot holes of the injection well and monitor wells shall be submitted with scales of one inch equals one hundred feet (1"=100'), two inches equals one hundred feet (2"=100'), and five inches equals one hundred feet (5"=100')

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- m. An engineering drawing showing the drill pad construction (including material used) and locations of the injection well and the water table monitor wells shall be provided for Department approval prior to pad construction and well construction.

4. QUALITY ASSURANCE/QUALITY CONTROL REQUIREMENTS

- a. This permit approval is based upon evaluation of the data contained in the application dated April 24, 2012 and the plans and/or specifications submitted in support of the application. Any proposed modifications to this permit shall be submitted in writing to the Underground Injection Control program manager, the TAC for review and clearance prior to implementation. Changes of negligible impact to the environment and staff time will be reviewed by the program manager, cleared when appropriate and incorporated into this permit. Changes or modifications other than those described above will require submission of a completed application and appropriate processing fee as per Rule 62-4.050, F.A.C.
- b. A professional engineer registered pursuant to Chapter 471, Florida Statutes shall be retained throughout the construction period to be responsible for the construction operation and to certify the application, specifications, completion report and other related documents. The Department shall be notified immediately of any change of engineer.
- c. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.) F.S., applicable portions of permit applications and supporting documents that are submitted to the Department for public record shall be signed and sealed by the professional(s) who approved or prepared them.
- d. The Department shall be notified immediately of any problems that may seriously hinder compliance with this permit, construction progress, or good construction practice. The Department may require a detailed written report describing the problem, remedial measures taken to assure compliance and measures taken to prevent recurrence of the problem.
- e. Issuance of a Class V Test/Injection well exploration, construction and testing permit does not obligate the Department to authorize operation of the injection well system, unless the wells qualify for an operation permit applied for by the permittee and issued by the Department.

5. REPORTING REQUIREMENTS

- a. All reports and surveys required by this permit must be submitted concurrently to all the members of the TAC. The TAC consists of representatives from these agencies:

Mr. Gregg R. Strakaluse, P.E., Director
City of Naples Streets and Stormwater Dept.
295 Riverside Circle
Naples, Florida 34102
Email: gstrakaluse@naplesgov.com

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SPECIFIC CONDITIONS:

Florida Department of Environmental Protection
South District
P.O. Box 2549
Fort Myers, FL 33902-2549

Florida Department of Environmental Protection
Bureau of Water Facilities Regulation
UIC Program, MS 3530
2600 Blair Stone Rd.
Tallahassee, FL 32399-2400

South Florida Water Management District
P.O. Box 24860
West Palm Beach, FL 33416-4860

United States Geological Survey
9100 NW 36th Street, Suite 107
Miami, FL 33178

- b. Members of the TAC shall receive a weekly summary of the daily log kept by the contractor. The reporting period shall run for seven (7) days and reports shall be mailed or emailed within 48 hours of the last day of the reporting period. The report shall include but is not limited to the following:
1. Description of daily footage drilled by diameter of bit or size of hole opener or reamer being used;
 2. Description of formation and depth encountered; and specific conductance of water samples collected during drilling. Description of work during installation and cementing of casings; include amounts of casing and actual cement used versus calculated volume required.
 3. Lithological description of drill cuttings collected every ten (10) feet or at every change in formation. Description of work and type of testing accomplished, geophysical logging, pumping tests, deviation survey results, and coring results.
 4. Description of any construction problems that develop and their status to include a description of what is being done or has been done to correct the problem.
 5. Description of the amount of salt used.
 6. Results of any water quality analyses performed as required by this permit, including pad monitor wells.

Mr. Gregg R. Strakaluse, P.E., Director
City of Naples Streets and Stormwater Dept.
295 Riverside Circle
Naples, Florida 34102
Email: gstrakaluse@naplesgov.com

Collier County - UIC
FDEP File Number: 51762-116-UC/5X
Date of Issue: **Draft**
Expiration Date: **Draft**
Class V Exploratory Well Construction

SPECIFIC CONDITIONS:

7. Copies of the driller's log are to be submitted with the weekly summary.
- c. The Department must be notified seventy-two (72) hours prior to all testing for mechanical integrity on the injection well. Testing should begin during daylight hours Monday through Friday.
- d. Annotated copies of geophysical logs, lithologic descriptions and logs and water quality data (from drilling and packer tests) must be submitted to TAC, with interpretation, for intermediate and final casing seat selection approvals by the Department.
- e. An interpretation of all test results must be submitted with all test data and geophysical logs.
- f. After completion of construction and testing, a final report, certified by a P.E. and P.G., shall be submitted to the Department and the TAC. The report shall include, but not be limited to, all information and data collected under Rule 62-528.450(2) and Rule 62-528.450(3), F.A.C., with appropriate interpretations. Mill certificates for the casing(s) shall be included in this report. To the extent possible, the transmissivity of the injection zone and maximum injection rate within safe pressure limits shall be estimated.
- g. The following items shall be sent to the United States EPA, Region IV, UIC Section, 61 Forsythe Street SW, Atlanta, GA 30303-8909:

Cover letter only for final engineering reports

Cover letter only for Mechanical Integrity reports

h. **Submissions to the Florida Geological Survey (FGS):**

1. Upon completion of analysis of the sample cuttings recovered during the construction of wells covered by this permit (when no longer needed by the well owner), the permittee shall contact the Geological & Geotechnical Data Acquisition Program of the Florida Geological Survey (FGS) to arrange for the transfer of the sample cuttings. The FGS shall also be contacted to arrange for the collection of 100 ml water samples, with nitric acid preservative for metal analysis, at the end of the SDT test (where sufficient water is available; see S.C. 2.h.1) and aquifer background sample collection events (See S.C. 5.b.13).
2. All sample cuttings, and water samples shall be shipped to the Florida Geological Survey, Geological & Geotechnical Data Acquisition Program, 3915 Commonwealth Boulevard, Tallahassee, Florida 32399. All cores and samples shall clearly identify the site name, well name/number, depths of samples/cores, and the latitude/longitude location of the well(s) using the form in this permit.

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SPECIFIC CONDITIONS:

3. The permittee shall also provide the following items to FGS at the address indicated directly above:
 - a. Any geophysical logs run during well construction; and
 - b. A copy of the final report described in S.C. 4.k above.

6. This construction permit does not include a period of temporary injection operation for the purposes of long term testing. A short term test for the purpose of establishing certain performance characteristics is allowed as described in 8.b following.
 - a. Construction of the injection well shall be complete and the permittee shall submit a notice of completion of construction certified by a P.E. to the Department.
 - b. Each well shall first be tested for integrity of construction, and shall be followed by a short-term injection test of such duration to allow for the prediction of the operating pressure.
 - c. The permittee shall submit the following information to each member of the Technical Advisory Committee:
 1. A copy of the borehole television survey(s)
 2. Geophysical logs
 3. Mechanical integrity test data
 4. Data obtained during the short term injection testing conducted pursuant to Rules 62-528.405(3)(b), 62-528.410(7)(e), and 62-528.450(3)(a)2., F.A.C.
 5. Confining zone data
 6. Background water quality data for the injection zone and monitor wells. Parameters to be measured are the primary and secondary drinking water standards (Excluding asbestos, dioxin, epichlorhydrin, acrylamide, Pesticides and PCB parameters required in Table 5 of Chapter 62-550, F.A.C.).
 7. Waste stream analysis to be submitted 60 days prior to initiation of operational testing. Parameters to be measured are the primary and secondary drinking water standards (Excluding asbestos, dioxin, epichlorhydrin, acrylamide, Pesticides and PCB parameters required in Table 5 of Chapter 62-550, F.A.C.).
 8. As-built well construction specifications
 9. Draft operation and maintenance manual with emergency procedures

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10. Other data obtained during well construction needed by the Department to evaluate whether the well will operate in compliance with Department rules.

EXPLORATORY WELL EW-1: The proposed specifications for the injection well are as follows:

<i>Casing Diameter and Type</i>	<i>Depth Cased (ft bls)</i>	<i>Open Hole Interval (feet bls)</i>
16" 0.375 WT Steel Pit Csg	770'	
Open Hole Interval		From 770' to 1500'

7. The permittee is reminded of the necessity to comply with the pertinent regulations of any other regulatory agency, as well as any county, municipal, and federal regulations applicable to the project. These regulations may include, but not limited to, those of the Federal Emergency Management Agency in implementing flood control measures. This permit should not be construed to imply compliance with the rules and regulations of other regulatory agencies.
8. The permittee shall be aware of and operate under the general conditions in Rule 62-528.307(1)(a) through (x) and Rule 62-528.307(2)(a) through (f), F.A.C. These general conditions are binding upon the permittee and enforceable pursuant to Chapter 403 of the Florida Statutes.
9. The permittee shall submit the following as soon as is possible:

An AOR study for the Cove Stormwater Station location based on updated information. The information should be shown on a table and well locations should be shown on a map of the AOR. Please be aware permission will not be granted to spud the well until the information is submitted to the agency, reviewed, and approved.

Note: In the event of an emergency the permittee shall contact the Department by calling (850) 488-1320. During normal business hours, the permittee shall call (239) 334-5687.

Issued this day 23rd of July, 2012.

STATE OF FLORIDA DEPARTMENT
 OF ENVIRONMENTAL PROTECTION

D R A F T

Jon M. Iglehart
 Director of
 District Management

JMI/DR/jl



Florida Department of Environmental Protection

South District Office
 Post Office Box 2549
 Fort Myers, Florida 33902-2549

Rick Scott
 Governor

Jennifer Carroll
 Lt. Governor

Herschel T. Vinyard Jr.
 Secretary

FDEP Underground Injection Control Program Sample Form (Cores/Cuttings/Formation Water)

Well Name:	
Well Type (circle one) Class I Class V Exploratory Monitoring	
Date Collected:	Date sent to FGS:
Sample type (circle one) Core Cuttings Formation Water	
Preservative used – if formation water sample – (circle one) Nitric n/a Other (describe)	
Datum and elevation:	Sample Interval:
Elevation method (circle one) Survey USGS Quadrangle Other (describe)	
Sample Interval Drilling Method (circle one) Reverse Air Mud Rotary Sonic/Acoustic Other (describe)	
Well Coordinates ___° ___' ___" N / ___° ___' ___" W	
Method (circle one) AGPS (hand held) DGPS (GPS survey) Map Derived	
FDEP Permit Number:	
Facility Name:	
Permittee (owner):	
Facility Address:	
Drilling Company:	Lead Driller:
Project Geologist:	Consulting Company:

Addendum I - Exhibit B

List of Pre-bid Attendees



NON-MANDATORY PRE-BID Meeting
#052-12 Stormwater ASR Exploratory Well
City of Naples Purchasing Conference Room - July 24, 2012 10:00 AM

NAME Roddy Moon

COMPANY Rowe Drilling Company

TELEPHONE 863-984-3100

E-MAIL Roddy@RoweDrilling.com

NAME Bobby Kuhlmeier

COMPANY Well & Water Systems Inc.

TELEPHONE 239 872 5955

E-MAIL RJK@WaterSystemsFlorida.com

NAME Noah Ringold

COMPANY Florida Design Drilling

TELEPHONE 561-909-7255

E-MAIL noah@fldrilling.com

NAME Andrew Holland

COMPANY CITY OF NAPLES STREETS & STORMWATER

TELEPHONE 213 5000

E-MAIL aholland@naplesgov.com

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IMPORTANT MESSAGE

PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE BID COVER SHEET.



NON-MANDATORY PRE-BID Meeting
#052-12 Stormwater ASR Exploratory Well
City of Naples Purchasing Conference Room - July 24, 2012 10:00 AM

NAME GREGG STRAKAUSE
COMPANY CITY
TELEPHONE 213-5003
E-MAIL _____

NAME Albert Muniz
COMPANY Hazen and Sawyer
TELEPHONE 561 997 8070
E-MAIL amuniz@hazenandsawyer.com

NAME Bob Middleton
COMPANY City
TELEPHONE 213-4714
E-MAIL _____

NAME Harvey Youngquist
COMPANY Youngquist Brothers
TELEPHONE 239 489 4444
E-MAIL Harvey@youngquistbrothers.com

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IMPORTANT MESSAGE

PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE BID COVER SHEET.



NON-MANDATORY PRE-BID Meeting
#052-12 Stormwater ASR Exploratory Well
City of Naples Purchasing Conference Room - July 24, 2012 10:00 AM

NAME Eric Musselwhite
COMPANY Youngquist Brothers
TELEPHONE 239-489-4444
E-MAIL bill@youngquistbrothers.com

NAME Greg Givens
COMPANY City Staff
TELEPHONE 239-215-7101
E-MAIL _____

NAME _____
COMPANY _____
TELEPHONE _____
E-MAIL _____

NAME _____
COMPANY _____
TELEPHONE _____
E-MAIL _____

Page 3

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IMPORTANT MESSAGE

PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE BID COVER SHEET.

Addendum I – Exhibit C
Page 16 and Page 30 of Request for Proposals

See revised Page 16 and 30 attached. Also note that the depths shown on Drawing C-3, Sheet 4 of 5, should be adjusted as needed to reflect the change in potential well casing and drill depths as indicated in revised pages 16 and 30. The final depths will be determined at the time of construction.

SCHEDULE OF BID PRICES

The undersigned bidder proposed to furnish all labor, tools, material, supplies, and equipment, and other items referred to in 4 d. of this Bid Proposal and to sustain all expense incurred in doing the Work set forth below that may be awarded the undersigned by the CITY through its proper officers, and to do the same strictly in accordance with the Drawings and Contract Documents on file in the Office of the CITY, which are referred to below and made a part hereof, at the following combination of lump sum and unit prices:

<u>BID ITEM</u> <u>NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>	<u>TOTAL</u>
1	Lump sum	PART 1 – For the mobilization for the construction of one exploratory well for the lump sum price of <hr/> Dollars and <hr/> Cents	\$ _____.
2	Lump sum	PART 2 – For the construction of one exploratory well complete with all appurtenances and testing for the lump sum price of <hr/> Dollars and <hr/> Cents	\$ _____.
<u>Adjustment Values (To establish unit prices)</u>			
2.01	1,500 feet → 1,350 feet	For drilling nominal 12 ¼ -inch pilot-hole <hr/> \$ _____/foot	
2.02	750 feet → 500 feet	For drilling nominal 24-inch borehole <hr/> \$ _____/foot	
2.03	750 feet → 500 feet	For furnishing, installing and cementing 16-inch casing <hr/> \$ _____/foot	
2.04	4 each	For conducting straddle packer tests <hr/> \$ _____/each	
2.05	40 hours	For standby time <hr/> \$ _____/hour	

1.03 OUTLINE SPECIFICATIONS OF INJECTION WELL

- A. The Contractor must keep in mind that this project is for construction and testing of an Exploratory Well. Depths shown in the contract documents are approximate and may need to be modified based on underground conditions encountered. All work shall be performed as specified herein or as identified by the Engineer. Also, the Contractor should be aware that the sequence of testing (i.e., packer tests, geophysical logging, etc.) described in this outline may be changed in order of occurrence, or deleted, and additional testing may be added.

Part 1 – Mobilization

Work performed during Part 1 of the project includes:

1. Mobilize equipment and materials on site as needed to complete project, install temporary power, and water service.
2. Clean the site and build soil sub-base for drilling pads.
3. Construct drilling pad and install pit casing at the exploratory well site as needed.
4. Construct four shallow monitor wells, one at each corner of each drilling pad.
5. Set up drilling equipment.
6. Proceed as directed by Owner.

Part 2 – Partial Construction and Testing of Production Well

Work performed during Part 2 of the project includes:

1. Drill a nominal 6-inch diameter pilot-hole to approximately ~~550~~ feet in depth. Perform geophysical logging.
2. Ream pilot-hole to nominal 24-inch diameter borehole to approximately ~~500~~ feet in depth. Perform geophysical logging.
3. Install approximately ~~500~~ feet of 16-inch diameter casing and cement in place. Perform geophysical logging.
4. Drill, using reverse-air drilling methods, a nominal 6-inch diameter pilot-hole to approximately 1,350 feet in depth. Perform geophysical logging.
5. Perform up to four (4) straddle packer tests to collect representative water samples at depths selected by Engineer.
6. Plug back pilot-hole with 12% bentonite cement to base of 16-inch casing as selected by Engineer.
7. Proceed as directed by Owner.

750 feet



750 feet



750 feet

